

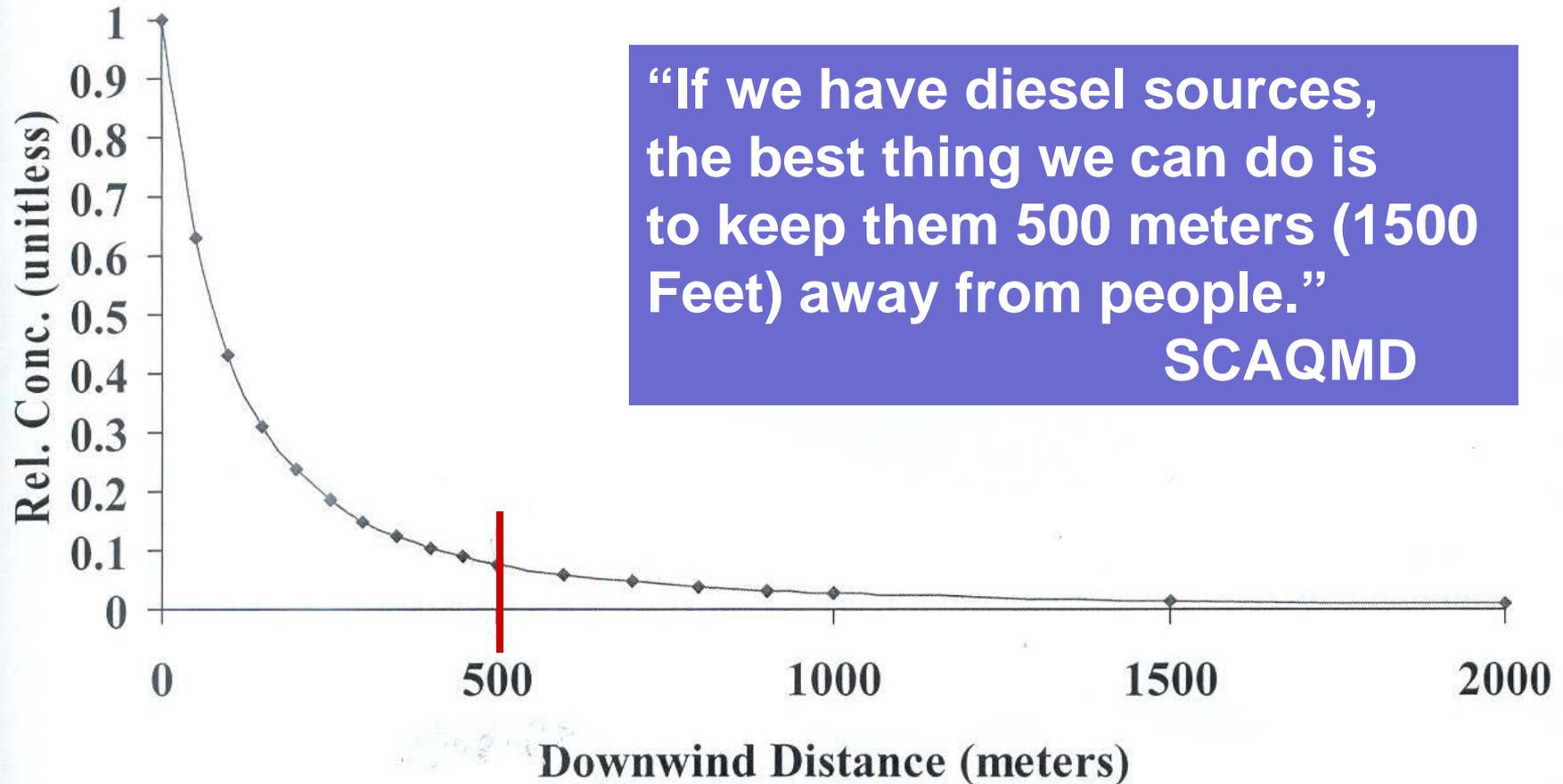
California Freight Advisory Committee

Environmental Issues – Finding Solutions

September 18, 2013

Penny Newman
Center for Community Action and
Environmental Justice
Riverside/San Bernardino

Sensitivity of Concentrations to Downwind Distance



POLLUTION DISPERSION AROUND A BUSY ROAD

TYPES OF POLLUTANTS

FINE PARTICLES



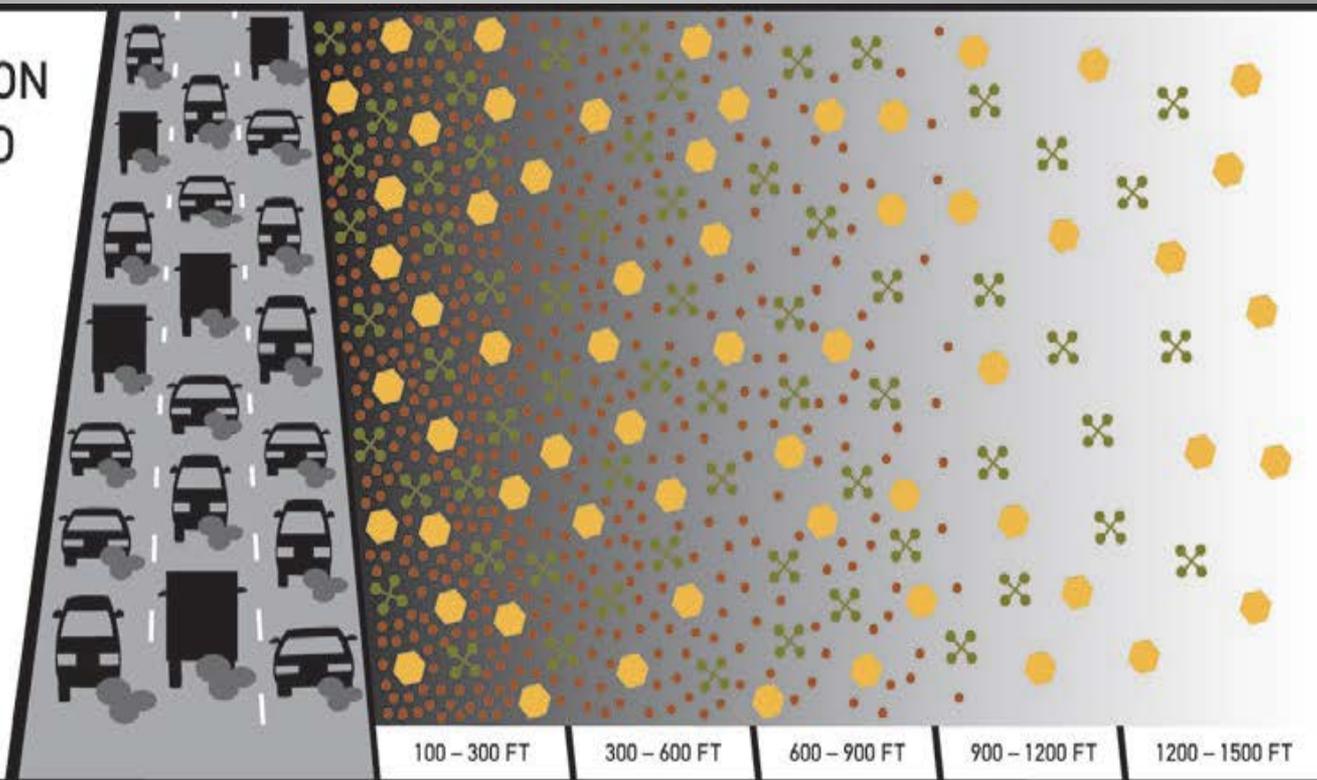
NITROGEN DIOXIDE



ULTRAFINE PARTICLES



DISTANCE FROM THE SOURCE



1500 FEET
LUNG DEVELOPMENT



500 - 1500 FEET
CHILDREN'S ASTHMA

EXAMPLE DISTANCES WHERE HEALTH EFFECTS ARE FOUND



400 FEET
CHRONIC HEART DISEASE

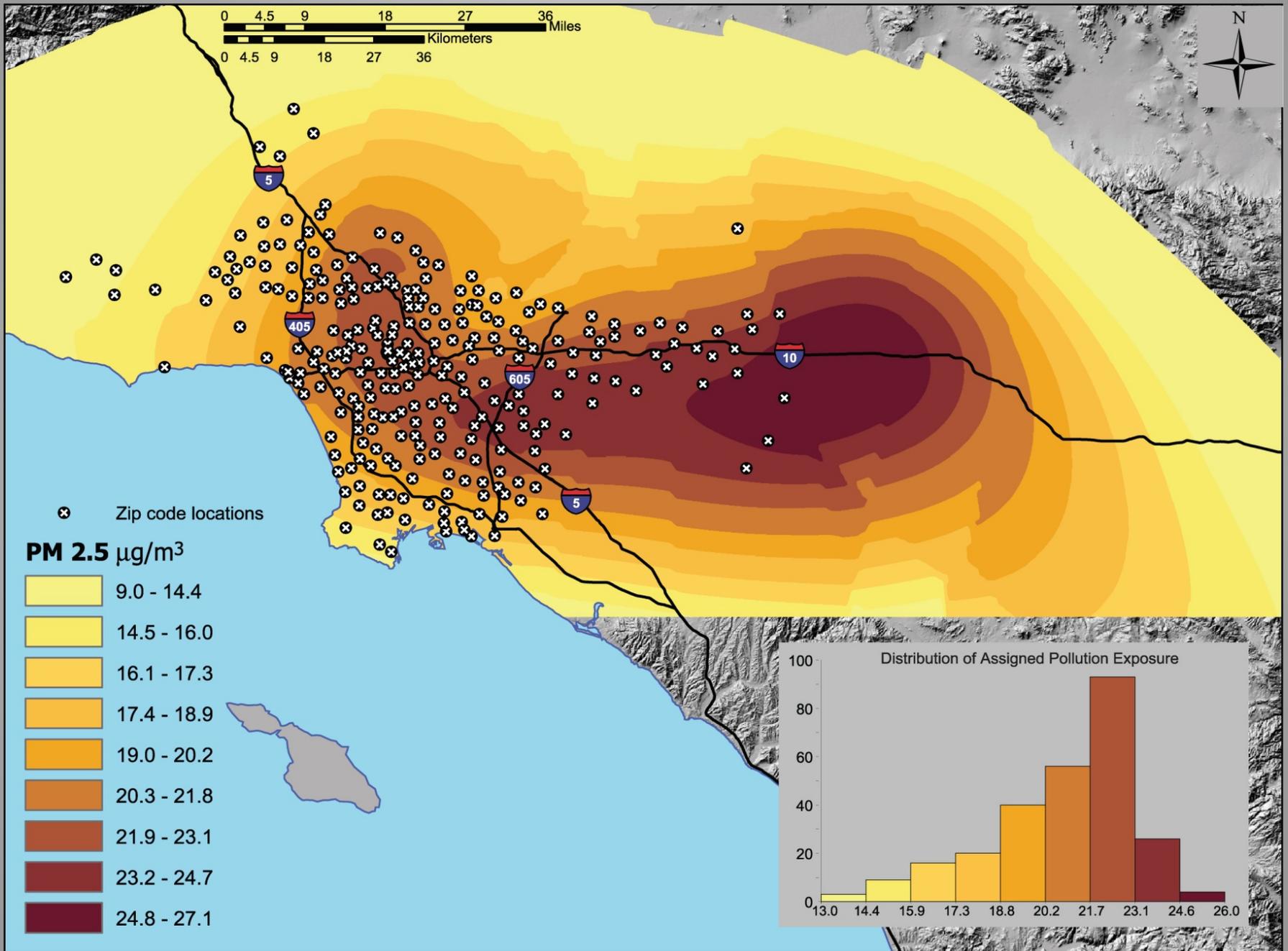


300 FEET
ADULT LUNG DISEASE



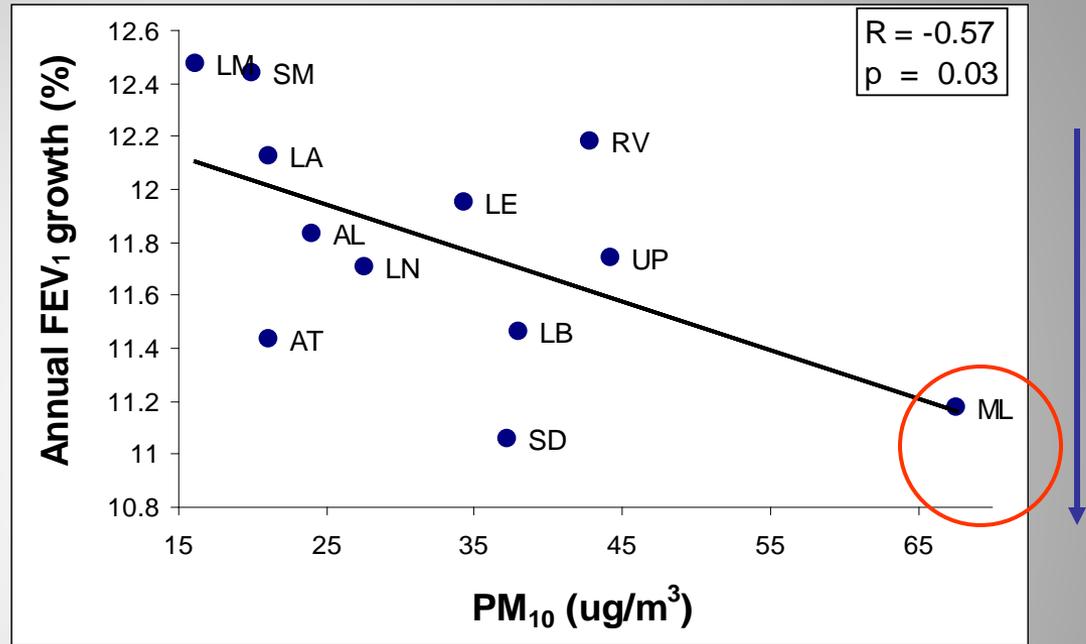
300 FEET
ACUTE HEART ATTACKS





USC Children's Health Study

- University of Southern California (USC), Children's Health Study found children in the Mira Loma area to have the **slowest lung growth** and **weakest lung capacity**.²



²“Association Between Air Pollution and Lung Function Growth in Southern California Children”, American Journal of Respiratory and Critical Care Medicine; Gauderman, W. James; McConnell Rob; et al, Department of Preventive Medicine, University of Southern California School of Medicine, Los Angeles.

Task Force Members

- Mira Loma Residents
- Westside Residents
- US EPA
- CARB
- DTSC
- Attorney General
- South Coast AQMD
- SB County CUPA
- Loma Linda University
- UCLA Dr. Froines
- UC Davis – Dr. Cahill
- Riverside County Health
- City of San Bernardino
- City of Jurupa Valley

Task Force sets priorities



MIRA LOMA



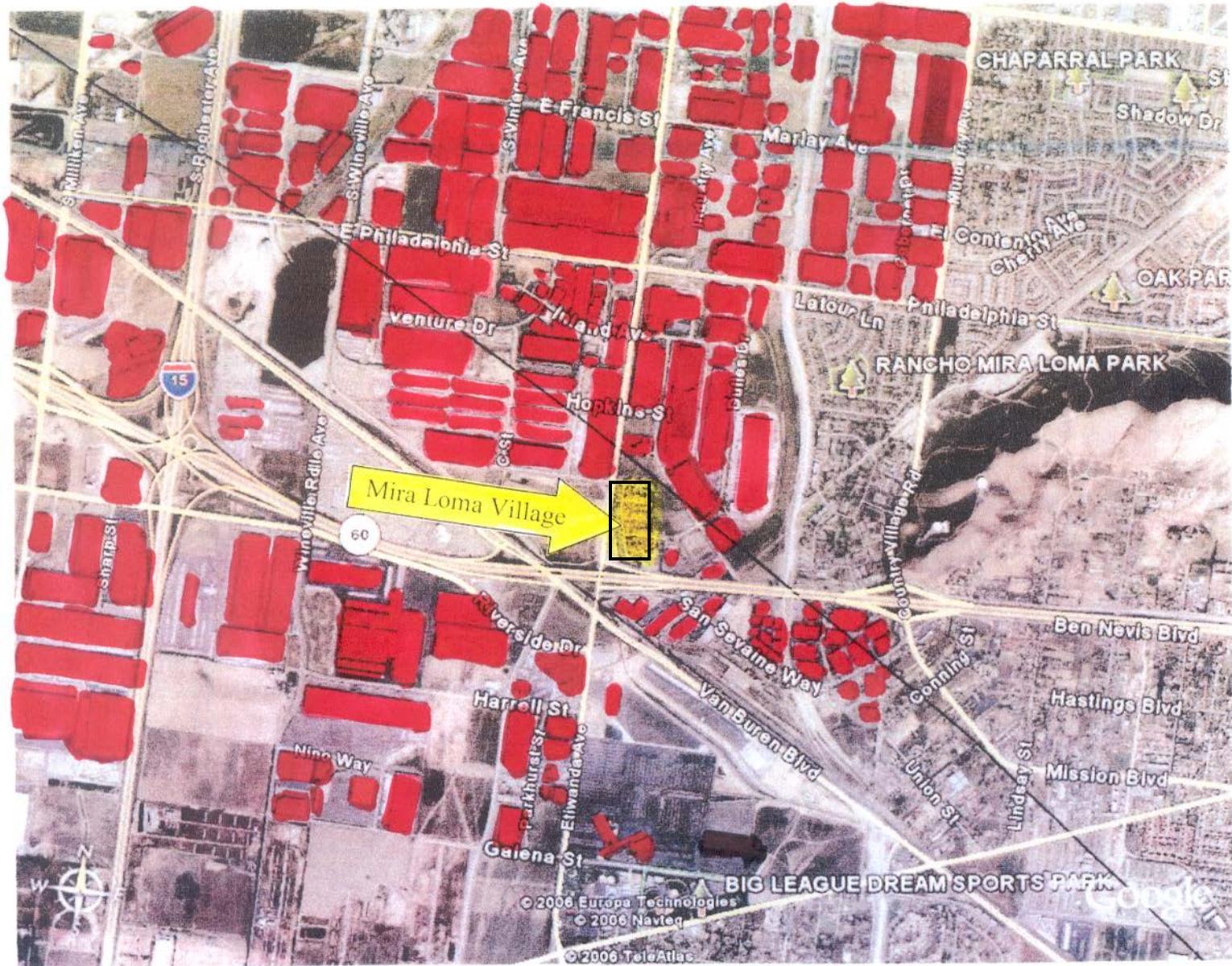






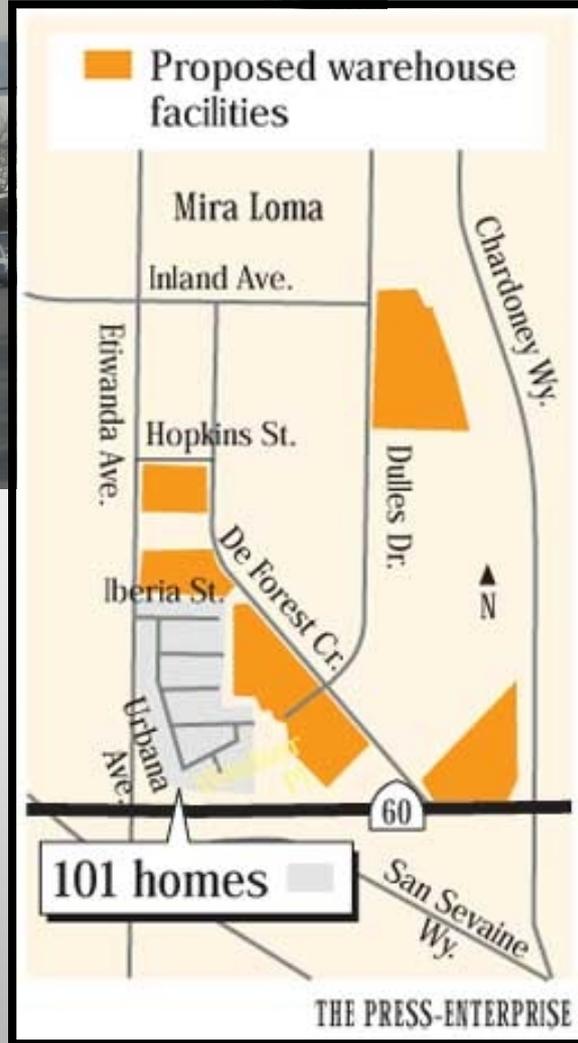






■ WAREHOUSES

■ MIRA LOMA VILLAGE



Mira Loma Platform

- Air Quality – Reducing the levels of pollution at our homes
- Truck Traffic – Too many trucks near our homes
- Reduce Noise
- No More warehouses
- Realign Etiwanda to reduce truck traffic
- Don't block our views-reduce height of buildings
- Keeps trucks out of our neighborhood

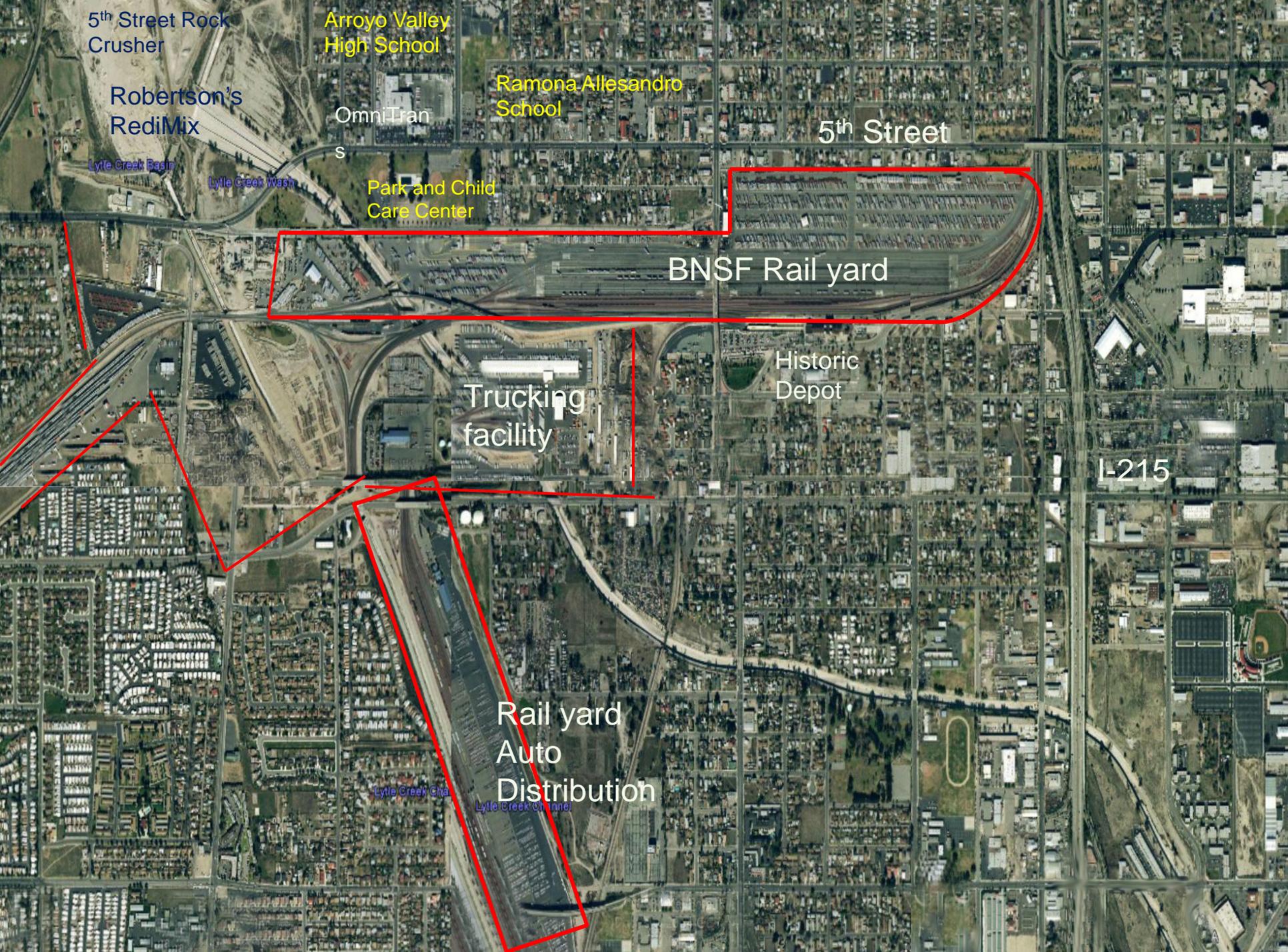


Mira Loma Settlement

Reduced Height of Buildings: No warehouses near homes – Business/commercial buildings

- 1. Air Filters**
- 2. Restricted Truck Route**
- 3. Anti-Idling Enforcement**
- 4. Clean Trucks**
- 5. Buffers**
- 6. Air Monitoring**
- 7. Electrification plug in for trucks**
- 8. Solar.**
- 9. Green Building:** LEED Silver or higher level for all buildings 100,000 sq ft. or larger.
- 10. EJ Element in General Plan.**
- 11. CEQA Analysis** for Future Plans must address impacts to Overburdened and Sensitive Communities:

Westside City of San Bernardino



5th Street Rock Crusher

Arroyo Valley High School

Robertson's RediMix

OmniTran

Ramona Allesandro School

5th Street

Lytle Creek Basin

Lytle Creek Wash

Park and Child Care Center

BNSF Rail yard

Trucking facility

Historic Depot

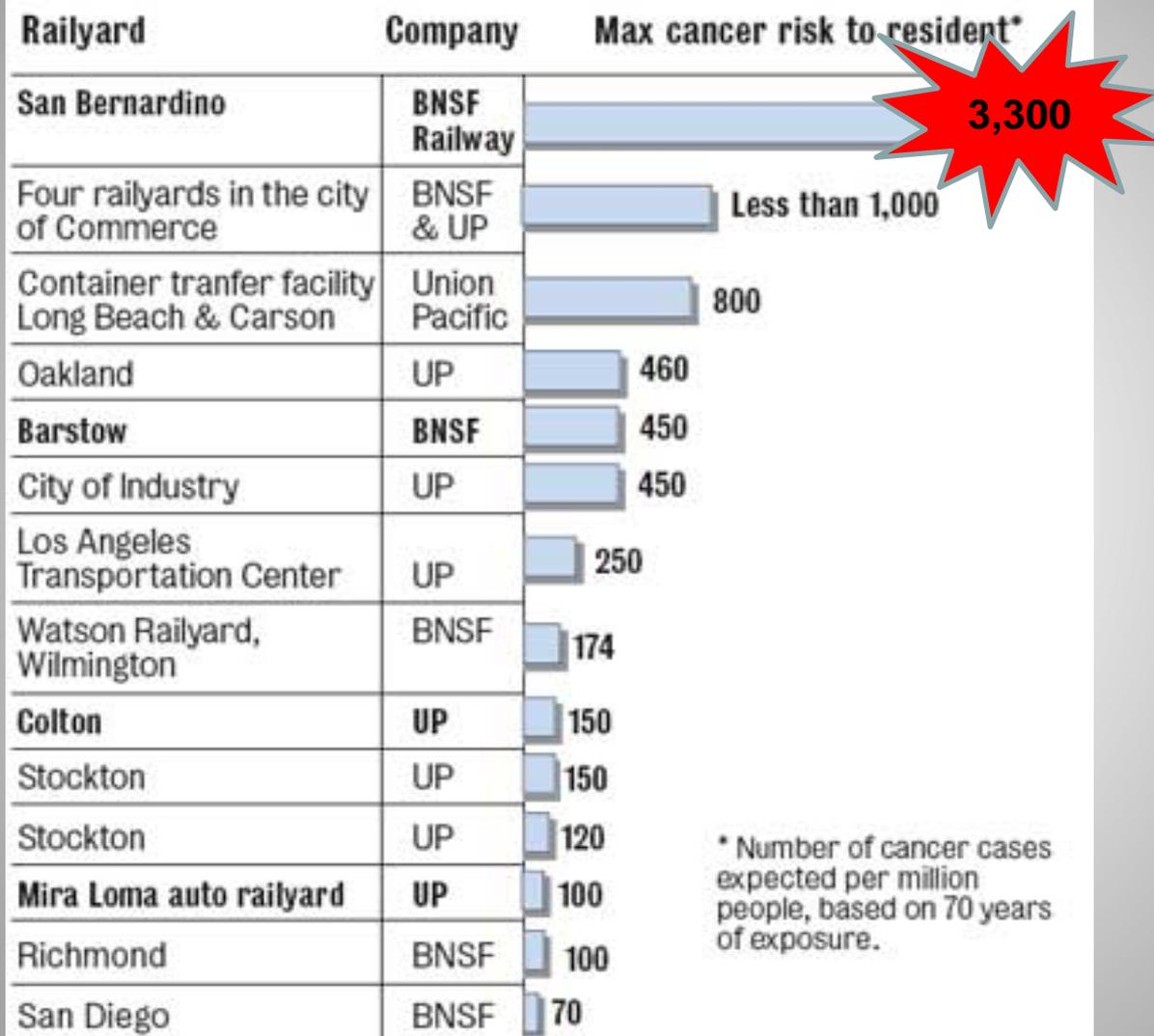
I-215

Rail yard Auto Distribution

Lytle Creek Chn

Lytle Creek Ch tunnel

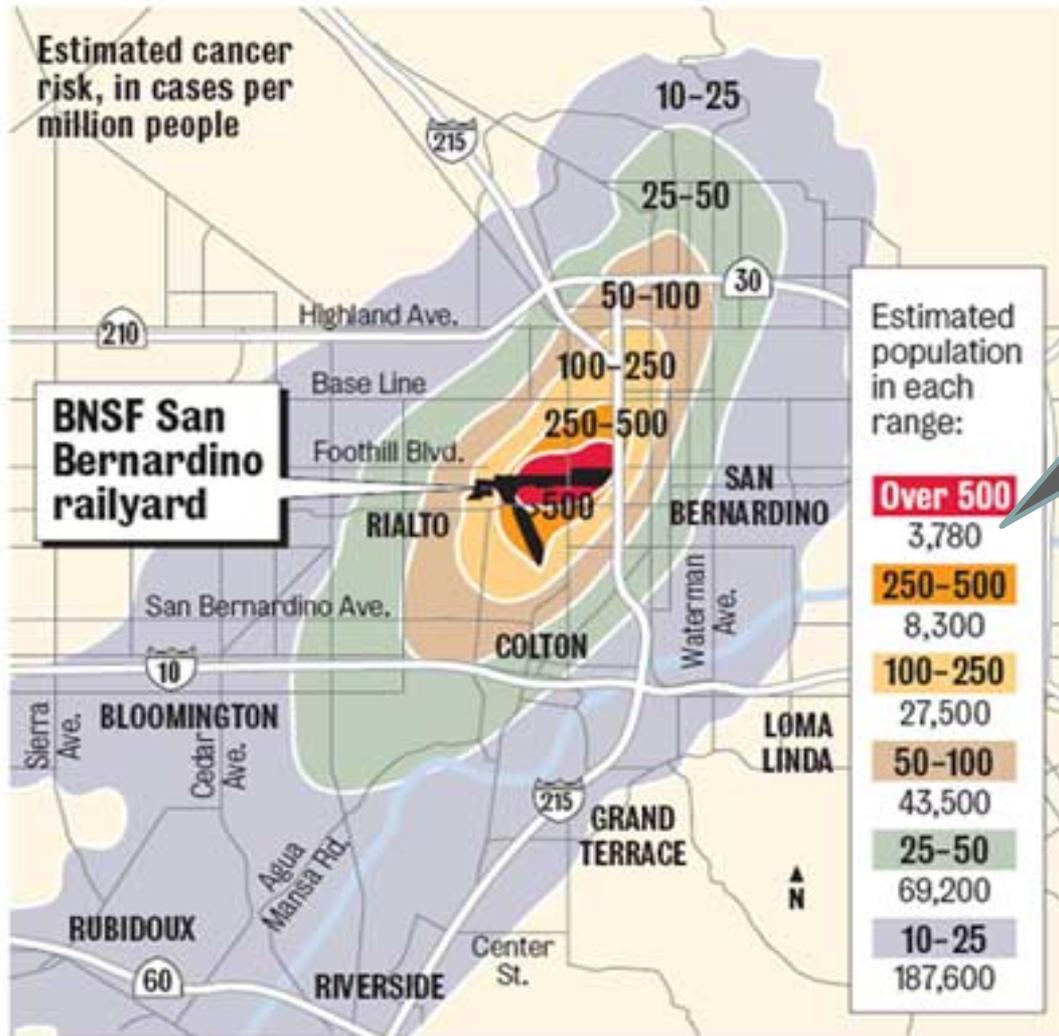
CANCER RISK: People living near BNSF Railway operations in San Bernardino face a much greater railyard-related cancer risk than people living near any of 15 other rail operations examined in state studies.



* Number of cancer cases expected per million people, based on 70 years of exposure.

SOURCE: CALIFORNIA AIR RESOURCES BOARD

DANGER ZONE: A state study found that people living downwind of the BNSF railyard in San Bernardino face an increased cancer risk of as many as 2,500 cases per million people. The estimated regional cancer risk from all air pollution is 1,000 cases per million people.



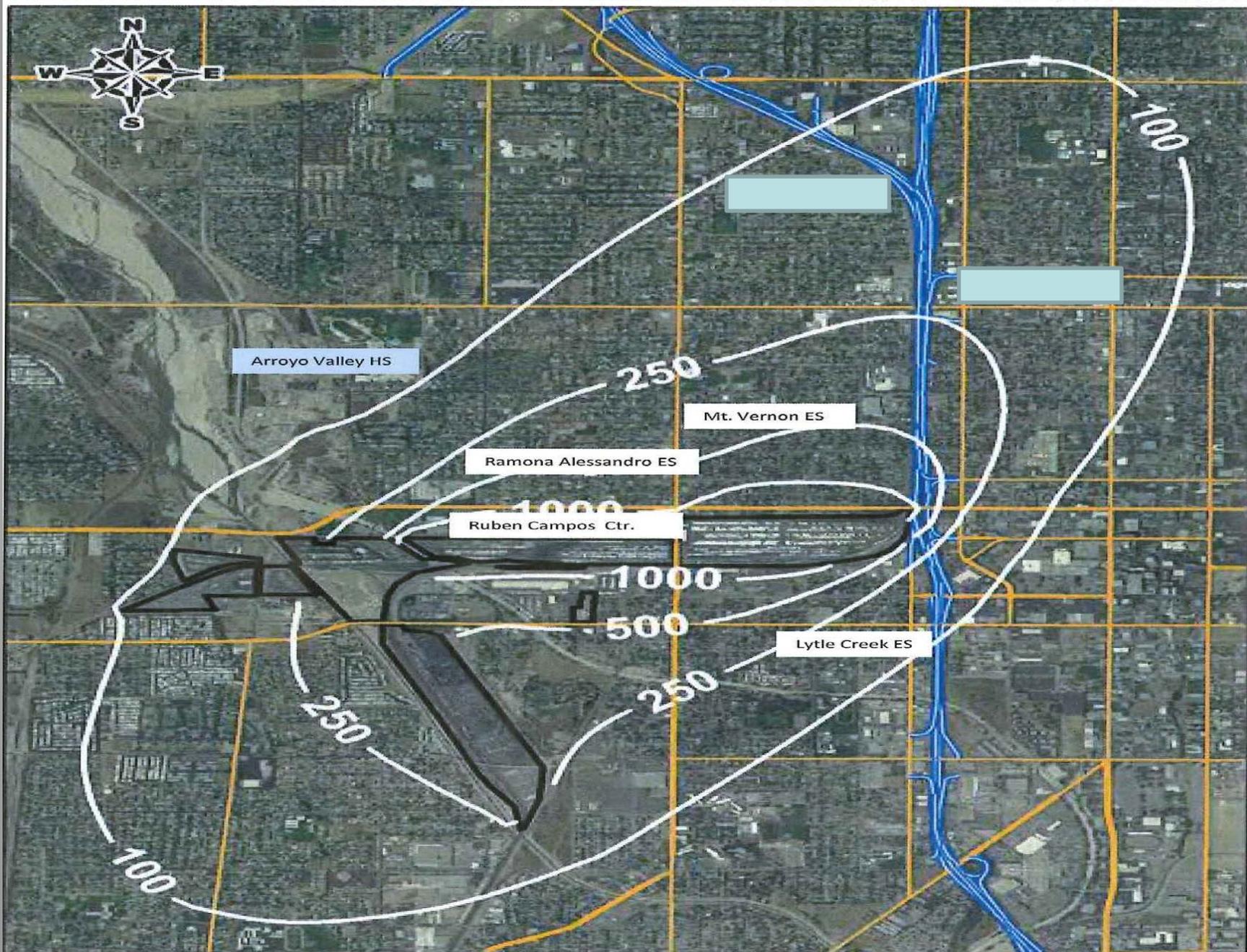
3,780

San Bernardino Platform

- Buffers
- Retrofit-Weatherize Homes
- New/Alternative technology-
- Health Clinic in the community
- Breathe Mobile for testing in the local schools
- Move the gate and reconfigure operations
- Control truck congestion and diesel emissions in our neighborhoods
- Enforce noise regulations



- Maintain a clearly defined method of communication and accountability to the community
- Air Monitoring continuously
- Move the Omnitrans tanks away from the community
- No more commercial facilities in the middle of a residential



Arroyo Valley HS

Ramona Alessandro ES

Mt. Vernon ES

Ruben Campos Ctr.

Lytle Creek ES

0 0.5 1 Miles



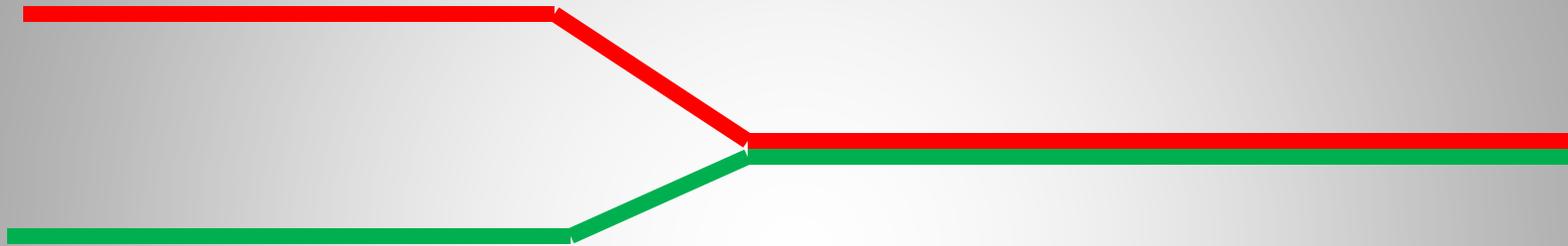
Loma Linda Health Study

47% of children screened at Ramona Alessandro have Asthma

- 60% of households make less than \$10,000 annually
- Don't have health insurance
- Can't afford medical care
- Don't use ER
- Using over the counter and home remedies

- Weekly Mobil Clinic with Arrowhead Medical Center
- Air Filtration units
- Vegetative Barriers – trees, shrubs that absorb ultrafine particles
- 4th Street Beautification and Traffic Calming Project
- Investigating inexpensive home filter systems
- Developing “Breath of Life” Asthma Education and Prevention Program

- MAP 21
- Freight Advisory Committees
 - Increase throughput;
 - comprehensive plan for efficient transport



- EJ Mandate
- Interagency Working Group on EJ
 - Goods Movement Committee (DOT, Homeland Security, EPA)
 - Address health, safety and quality of life on impacted communities
 - Ensure local voice in decision making