Task 4.3: Detecting Source Activities and Reconciling Ambient Measurement Variations with Field Observations

Do Local Emissions Events Influence Angiola Air Quality Measurements?

Prepared by:
Kiren Bahm
Lyle Chinkin
Dana Sullivan
Kyle Broaders
Sonoma Technology, Inc.
Petaluma, CA

Presented to:
CRPAQS Data Analysis Workshop
Sacramento, CA
March 9-10, 2004
Local emissions events were documented and cross-referenced with wind speed and direction data.
Upwind emissions events were categorized by source type and used to identify NO, PM\textsubscript{2.5}, and PM\textsubscript{10} samples that were taken during these events.
It was determined that, overall, the variations in NO, PM$_{2.5}$, and PM$_{10}$ concentrations were due to regional rather than local activity.