

**Assistance Agreement Quarterly Report
for the period of January 1, 2002, to March 31, 2002**

April 1, 2002

Fresno, California, Particulate Matter (PM) Supersite Monitoring Program
EPA Assistance Agreement No. R-82805701-01

WORK PROGRESS AND STATUS

First quarter 2002 activities are summarized based on applicable tasks stated in the Fresno Supersite QAPP.

Task 1 – Equipment Procurement and Installation.

- No new equipment was procured or installed during this quarter.

Task 2 – Network Operations and Data Processing.

- Network operations and data processing have continued through this period.

Task 3 – Laboratory Measurements.

- PM_{2.5} mass and chemistry analyses of filter samples from FRM and chemical speciation samplers collected every sixth day through 12/27/01 have been completed. Samples dated from 1/1/01 to 3/31/02 are in progress and expected to be completed by 6/31/02.

Task 4 – Quality Assurance.

- An external field audit of the supersite instruments was conducted on March 6th and 7th, 2002, by David Gemmill from the University of California, Riverside, College of Engineering Center for Environmental Research and Technology (CE-CERT). The next scheduled audit is planned during the third quarter of this year.
- Continued to assemble standard operating procedures for the field measurements.

Task 5 – Data Validation and Data Analysis.

- Level 0 data validation was completed for continuous gas, particle mass and chemistry, light scattering, light absorption, particle size, and meteorology measurements through 12/31/01.

Task 6 – Management and Reporting.

- Matt Gonzi, data analyst at DRI, visited the Fresno Supersite during the weeks of January 14-19, 2002, and March 4-8, 2002, to document maintenance procedures, perform independent instrument checks and calibrations, and to observe the external audit procedures.

PERSONNEL

There have been no changes of key personnel related this study.

EXPENDITURES

Budget expenditures to date are on target, and no revisions to the approved budget are expected to be necessary at this time.

QUALITY ASSURANCE

Standard operating procedures continue to be assembled and updated for the field measurements.

RESULTS

There are no results to report for this period.

PLANNED ACTIVITIES FOR THE FORTHCOMING QUARTER:

During the second quarter of 2002, the principal investigators plan to: 1) continue assembling and updating standard operating procedures, 2) finalize data validation criteria and database structure, 3) establish a satellite site for community exposure monitoring, and 4) organize the next supersite meeting to be held in Las Vegas during the first or second week of June to synthesize measurement methods.

PUBLICATIONS AND PRESENTATIONS:

One manuscript was submitted during this quarter:

- Watson, J.G., J.C. Chow, D. Lowenthal, M.R. Stolzenburg, and N.M. Kreisberg, S.V. Hering (2002). Particle Size Relationships at the Fresno Supersite. *J. Air & Waste Management Assoc.*, submitted.

No presentations were made during this quarter.

QUARTERLY REPORT SUMMARY:

See attached.