

**Assistance Agreement Quarterly Report
for the period of April 1, 2003, to June 30, 2003**

July 2, 2003

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

WORK PROGRESS AND STATUS

Second quarter 2003 activities are summarized based on applicable tasks stated in the Fresno Supersite QAPP.

Task 1 – Equipment Procurement and Installation.

- A Thermo Andersen Multi-Angle Absorption Photometer (MAAP) was installed on 6/23/03 by Kevin Goohs from Thermo Andersen.
- The TSI DUSTTRAK™ Aerosol Monitor Model 8520 was removed from service on 6/25/03.
- The Rupprecht & Patashnik Co., Inc, Series 5400 Ambient Particulate Carbon Monitor was removed from the site on 6/25/03.
- A Sunset Laboratory Carbon Aerosol Analysis Field Instrument replaced the R&P 5400 monitor. This third-generation, semi-continuous OCEC analyzer was installed on 6/26/03 by Matt Gonzi from DRI.

Task 2 – Network Operations and Data Processing.

- Network operations and data processing have continued through this calendar quarter.
- A new computer was received in mid-June and taken to DRI for setup. This computer will replace the existing Data Acquisition PC and provide additional data access through a DSL line.

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 12/31/02, have been completed. Samples dated through 3/31/03 have been analyzed and validated for mass only. Chemical speciation and data validation is in progress and expected to be completed by 9/30/03.

Task 4 – Quality Assurance.

- Continued to finalize standard operating procedures for the data analysis methods of the field measurements.

Task 5 – Data Validation and Data Analysis.

- Level 1a and 1b data validation is in process for continuous gas, particle mass and chemistry, light scattering, light absorption, particle size, and meteorological measurements through 6/30/03. Data validation criteria for the continuous instruments are being finalized. A majority of the continuous data, collected through 3/31/03, has been submitted to the California Air Resources Board's CCAQS FTP site. Data collected through the end of May 2003 is also being uploaded on a regular basis. This task should be completed during the third quarter of 2003. Level II validation on this data set will then resume. Submission of Supersite data to the NARSTO database is also underway and should also be completed during the third quarter of 2003 for data collected through June 2003.

Task 6 – Management and Reporting.

- Matt Gonzi visited the Fresno Supersite during the last week of June 2003. During this visit he installed the Sunset Laboratory semi-continuous carbon analyzer.
- Drs. John Watson and Judith Chow visited the Fresno Supersite on April 15-16, 2003.

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 updated for the data analysis procedures.

RESULTS

There are no results to report for this period.

PLANNED ACTIVITIES FOR THE FORTHCOMING QUARTER:

During the third quarter of 2003, the principal investigators plan to: 1) finalize procedures for the data handling protocols for the Fresno Asthmatic Children's Environment Study (the concurrent health study conducted by the University of California, Berkeley), 2) finalize data validation criteria and database structure, and 3) finish and install the computer upgrade for the Data Acquisition System.

PUBLICATIONS, PRESENTATIONS, AND REPORTS:

No manuscripts were published during this quarter.

No presentations were given this quarter.

No reports were prepared this quarter.

QUARTERLY REPORT SUMMARY:

See attached.