

ASSISTANCE AGREEMENT QUARTERLY REPORT SUMMARY

for the reporting period July 13, 2001 through October 12, 2001

March 4, 2002

St. Louis - Midwest Particulate Matter (PM) Supersite Monitoring Program

EPA Assistance ID No. R-82805901-0

Investigators and Institutions:

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Dr. John Watson	Desert Research Institute, Reno, NV

Lead Institution: Washington University in St. Louis
Research Category: Particulate Matter Supersites Program
Project Period: January 13, 2000- January 12, 2004

Objective of Research:

This project will provide an atmospheric measurement study which is designed to address and integrate objectives of the atmospheric, health and exposure research communities.

Progress Summary/Accomplishments:

Seventh quarter activities focused on routine measurements at the East St. Louis (IL) core monitoring location. The movable platform remained at the East St. Louis site until mid-August to provide extensive collocated data for assessing measurement precision; subsequently, it was moved to the rural Park Hills (MO) site for the remainder of the quarter. Figure 1 shows the movable platform deployment.

The 1st Data Analysis Meeting of the St. Louis - Midwest Supersite was held September 11, 2001, in St. Louis, MO with participation by eighteen team members and other collaborators. Two items were addressed: a preliminary evaluation of the performance of selected semicontinuous monitors; and an exploration of trends from the semicontinuous monitors for a "focus" week chosen for the purpose of this data analysis meeting.

¹ Current affiliation: American Chemistry Council, Washington, D.C. (Dr. Alan Hansen is currently serving as the official EPRI liaison to the St. Louis Supersite)

² Current affiliation: NPS-CIRA, Fort Collins, CO

St. Louis - Midwest Fine Particulate Matter Supersite

Publications/Presentations:

Allen, G.A., Harrison, D. and Koutrakis, P. (2001) "A New Method for Continuous Measurement of Sulfate in the Ambient Atmosphere", Annual Meeting of the American Association for Aerosol Research (AAAR), October 18, 2001. [This presentation included data from the St. Louis - Midwest Supersite.]

Future Activities:

The eighth quarter will include sustained measurements at the East St. Louis core site and a return of the movable platform from the rural Park Hills site to the core site for additional collocated measurements. The 2nd Data Analysis Meeting of the St. Louis - Midwest Supersite will be held in January 2002.

Supplemental Keywords:

particulate matter, PM-2.5, monitoring, air quality

Relevant Web Sites: St. Louis - Midwest Supersite: <http://capita.wustl.edu/StLSuperSite>



Figure 1. Movable platform deployed at the Park Hills (MO) satellite site.