

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK, NC 27711

July 30, 2012

OFFICE OF AIR QUALITY PLANNING AND STANDARDS

## **MEMORANDUM**

SUBJECT: Guidance on the Interpretation of the PM Filter Archive Requirements Described

in 40 CFR Part 58.16

FROM:

Lewis Weinstock, Leader

Ambient Air Monitoring Group (C304-06)

TO:

Air Monitoring Program Managers and Staff

We have received questions on the use of low volume  $PM_{10}$  filters that can provide multiple measurements of  $PM_{10}$ ; specifically the  $PM_{10}$  half of the  $PM_{10-2.5}$  measurement, and  $PM_{10}$  Pb.

Allowance for the filters to be used for both  $PM_{10}$  and Pb analysis reduces the number of samplers required at the monitoring sites and creates other efficiencies. The EPA has encouraged this practice with guidance to perform  $PM_{10}$  mass measurements prior to performing Pb analysis on the same filter. Now that there is an approved FEM Pb ICP-MS technique, which will destroy the  $PM_{10}$  Teflon filter during sample extraction (the XRF FRM technique is non-destructive and, therefore, the filter can still be archived), monitoring organizations have asked whether using the  $PM_{10}$  filter for multiple uses with a destructive ICP-MS Pb FEM method is in conflict with the following 40 CFR Part 58.16 requirement that:

"The State, or where applicable, local agency shall archive all  $PM_{2.5}$ ,  $PM_{10}$ , and  $PM_{10-2.5}$  filters from manual low-volume samplers (samplers having flow rates less than 200 liters/minute) from all SLAMS sites for a minimum period of 1 year after collection."

The requirement goes on to state that the archived filters would be made available to EPA or other federal agencies, during the 1-year archive period, for supplemental analysis. Therefore, the archive requirement is to ensure that the filters are available, in a viable condition, for beneficial supplemental uses. Since the approved Pb FEM technique is available for use and EPA has encouraged multiple use of filters in order to reduce capital and resource costs, the agency feels this is an appropriate use for the filters and, therefore, a legitimate reason for not archiving filters that fall into this category of use.