

MATES III

Proposed Sampling and Analysis Methods For Particulates

December 9, 2003



Proposed Sampling Methods

- Xontec 920 for Toxic Metals, Hexchrome and Carbonyls (TSP)
- SSI-Hivol (FRM) for PM10 Mass, EC/OC
- Met-One SASS (Sequential Ambient Sampling System) for PM2.5 Speciation



Proposed Analysis Methods

- Toxic Metals by ICP/(TOF) MS
 - Compendium of Methods for Inorganic Air Pollutants Method IO-3.5 (January 1997)
- Crustal Elements by XRF
 - DRI XRF Analysis Method
- Hex-Chrome by Ion Chromatograph
 - Modified ARB Method MLD 039

Analysis Methods

- Elemental and Organic Carbon by DRI Thermal/Optical Carbon Analyzer Following IMPROVE (Interagency Monitoring of Protected Visual Environments) Methodology
- PM10 Mass Following Established EPA Requirements for Criteria Analysis