

Proposed Target Species for PM_{10-2.5} Speciation Monitoring

Table 1. List of Proposed Filter Types, Species, and Analysis Methods		
Filter Type and Species		Analysis Method
Teflon	Mass	Gravimetric
	Elements	Vacuum XRF
	Ions (Na, Ca, Cl, K, SO ₄ , NH ₄ , NO ₃) *	Water extraction with Ion Chromatography (IC)
	Total Protein (Surrogate for total biological)	Protein assay (NanoOrange®) of IC extract above with Fluorometry and/or SEM
Quartz	Organic and Elemental Carbon	Thermal Optical Analysis (IMPROVE_A TOT/TOR)
	Carbonate Carbon	Acidification followed by TOA
* Any volatile species present will be compromised by vacuum XRF		