

Table 4.4-8  
 CRPAQS Measurement Methods  
 Reference for Tables 4.4-5, 4.4-6, and 4.4-7

Code	Observable/Method
A	Light scattering (nephelometer)
B	PM <sub>2.5</sub> mass, elements, ammonia (Minivol with Teflon/citric acid filter pack)
C	PM <sub>2.5</sub> ions, carbon, nitric acid (Minivol with quartz/NaCl filter pack)
D	PM <sub>2.5</sub> organic compounds (Minivol with Teflon-impregnated glass fiber filter)
E	PM <sub>10</sub> mass, elements, ammonia (Minivol with Teflon/citric acid filter pack)
F	PM <sub>10</sub> ions, carbon, nitric acid (Minivol with quartz/NaCl filter pack)
G	PM <sub>10</sub> organic compounds (Minivol with Teflon-impregnated glass fiber filter)
H	Light absorption/elemental carbon (1-wavelength aethalometer)
I	Light absorption/elemental carbon (7-wavelength aethalometer)
J	PM <sub>2.5</sub> organic and elemental carbon (continuous carbon analyzer)
K	Particle size distribution (continuous instruments, e.g., OPC, SMPS)
L	PM <sub>2.5</sub> mass (continuous, BAM)
M	PM <sub>10</sub> mass (continuous, BAM)
N	PM <sub>2.5</sub> mass and elements (sequential filter sampler with Teflon/citric acid filter pack)
O	PM <sub>2.5</sub> ions and carbon (sequential filter sampler with quartz/NaCl filter pack)
P	Ammonia (sequential gas sampler with quartz/citric acid filter pack and citric acid denuder)
Q	Nitric acid (sequential gas sampler with quartz/NaCl filter pack and aluminum denuder)
R	NO <sub>y</sub> (continuous)
S	PAN/NO <sub>2</sub> (continuous)
T	O <sub>3</sub> (continuous)
U	SO <sub>2</sub> (continuous)
V	PM <sub>2.5</sub> nitrate (continuous)
W	PM <sub>2.5</sub> sulfate (continuous)
X	Nitric acid (continuous)
Y	Single particle measurements (Aerosol Time of Flight Mass Spectrometer)
Z	Fog measurements (various types performed by CSU)
a	Light hydrocarbons (canister & GC/FID)
b	Heavy hydrocarbons (Tenax & GC/TSD/FID)
c	PM <sub>2.5</sub> organic compounds (Teflon-impregnated glass fiber/PUF/XAD & GCMS)
d	Carbonyls (DNPH & HPLC)
e	Ion size distribution (MOUDI with Teflon & IC, AC)
f	Carbon size distribution (MOUDI with aluminum & TOR)
g	Radar Profiler/RASS
h	Sodar
i	Mini-sodar
j	10 meter meteorological tower (T, RH, WS, WD)
k	Meteorological measurements at 7 levels on 20 meter tower (T, RH, WS, WD)
l	Meteorological measurements at 5 levels on 100 meter tower (T, RH, WS, WD)
m	Rawinsondes