



# PM2.5 Attainment Modeling Update

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Metropolitan Washington Air Quality  
Committee

October 24, 2007

Presented by: VA Department of Environmental Quality



# Presentation Topics

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- Current 2009 PM<sub>2.5</sub> Modeling Results
- Next Steps



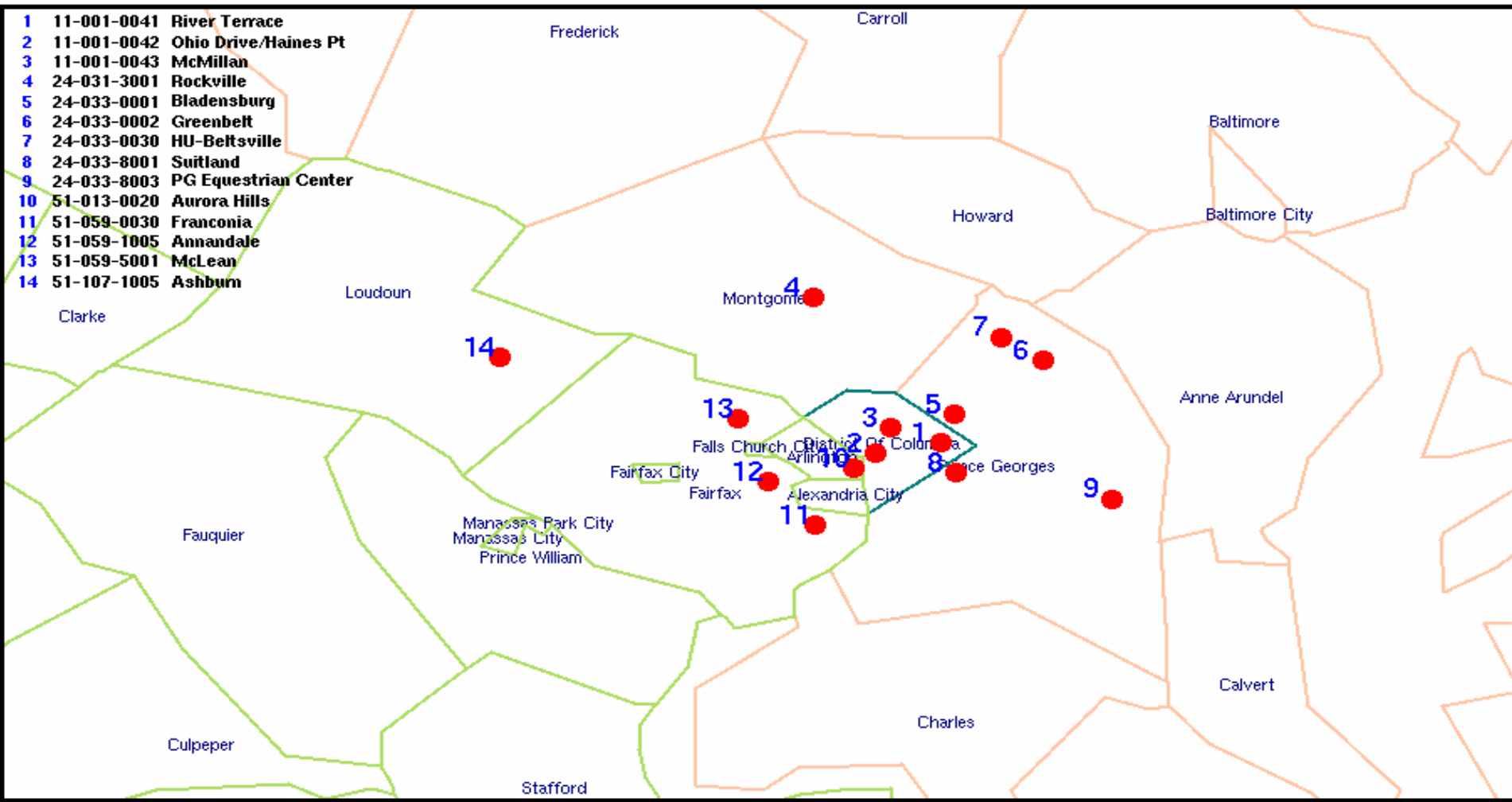
# 2009 PM<sub>2.5</sub> Design Values

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- DC modeling conducted by VDEQ
- Same modeling platform as ozone
- Annual simulations performed for current and future controls:
  - Mainly NO<sub>x</sub> reductions in local area
  - Significant regional SO<sub>2</sub> reductions
- Compared with other modeling Efforts

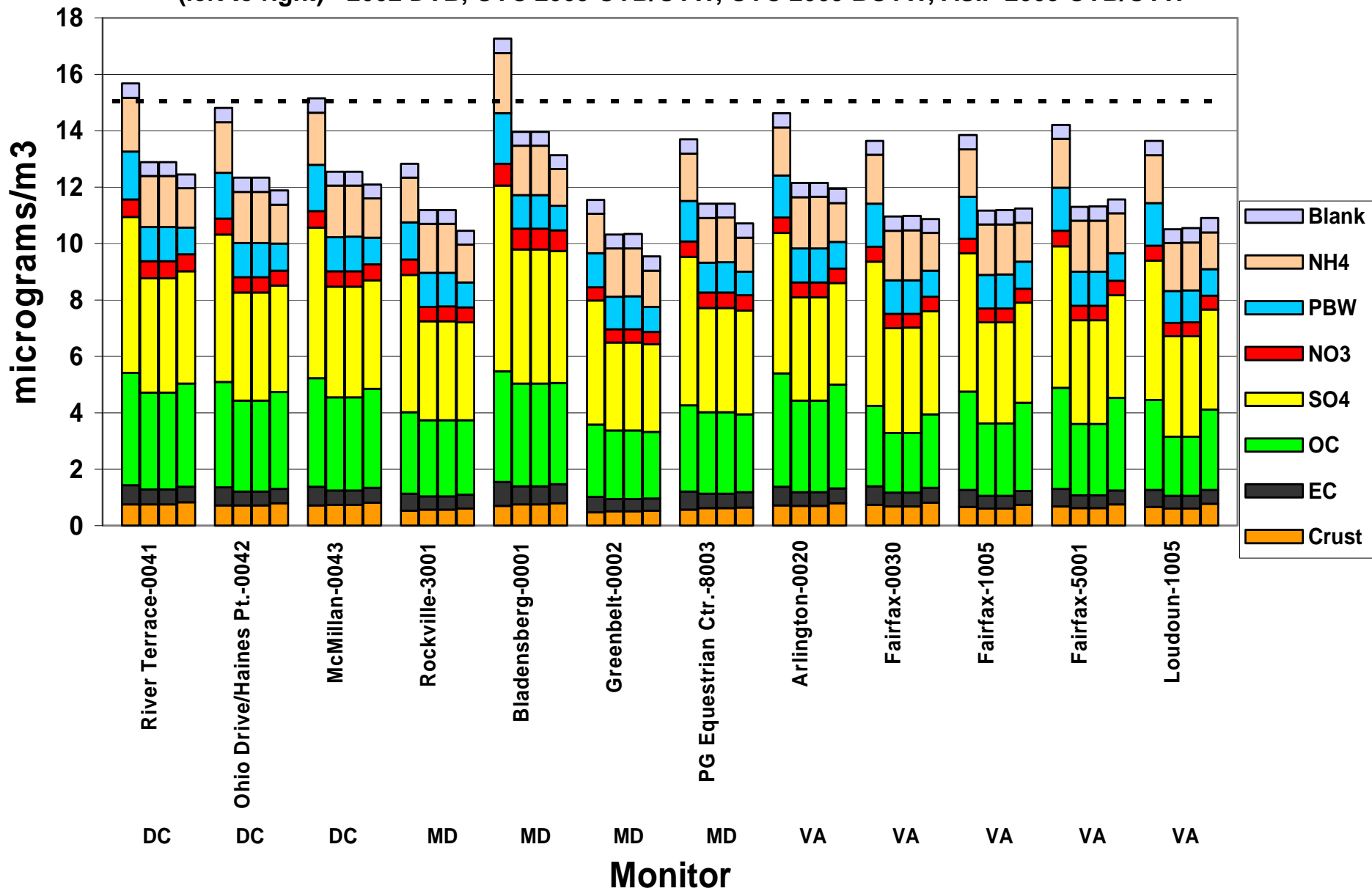
# Location of FRM Monitors

- 1 11-001-0041 River Terrace
- 2 11-001-0042 Ohio Drive/Haines Pt
- 3 11-001-0043 McMillan
- 4 24-031-3001 Rockville
- 5 24-033-0001 Bladensburg
- 6 24-033-0002 Greenbelt
- 7 24-033-0030 HU-Beltsville
- 8 24-033-8001 Suitland
- 9 24-033-8003 PG Equestrian Center
- 10 51-013-0020 Aurora Hills
- 11 51-059-0030 Franconia
- 12 51-059-1005 Annandale
- 13 51-059-5001 McLean
- 14 51-107-1005 Ashburn



# Washington, D.C. MSA Annual PM2.5 Design Values

(left to right) - 2002 DVB, OTC 2009 OTB/OTW, OTC 2009 BOTW, ASIP 2009 OTB/OTW



# Daily PM<sub>2.5</sub> Projections

Monitor I.D.	Jurisdiction	2009	2018
11-001-0041	DC - District of Columbia	36	33
11-001-0042	DC - District of Columbia	31	30
11-001-0043	DC - District of Columbia	33	31
51-013-0020	VA - Arlington	32	30
51-059-0030	VA - Fairfax	29	28
51-059-5001	VA - Fairfax	28	26
51-107-1005	VA - Loudoun	28	26



# PM2.5 Modeling - Next Steps

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- Final PM2.5 Modeling Protocol by October 31<sup>st</sup>
- Draft modeling report by November 15<sup>th</sup>
- Local Hotspot Analysis – under consideration
  - EPA workshop just completed
  - PM2.5 modeling meeting?
  - Will not be completed in time for the SIP