

### Connecticut Department of Energy and Environmental Protection









### 2015 Air Monitoring Network Plan

May 14, 2015 Randall Semagin SIPRAC



Connecticut Department of Energy and Environmental Protection

## Regulatory Requirement (40 CFR 58.10)

- Annual monitoring network plan
  - Submitted by July 1 each year to EPA after 30-day public inspection.
  - Contains justification for all current and planned monitors.
  - Includes evidence monitors meet all required siting, QA, methodology, network design criteria.
  - Covers SLAMS, NCore, near-road, PAMS, STN,
     SPM.
  - Based on 5-year network assessments.

#### **DEEP Current Monitoring Network**

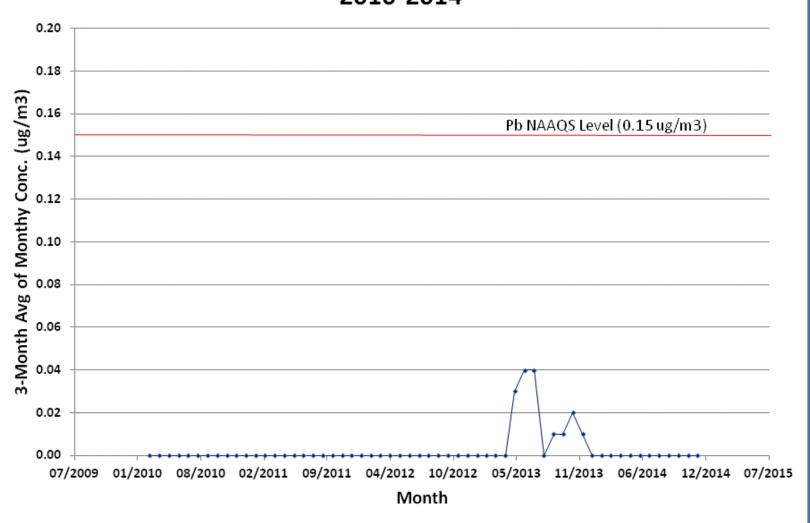


### Proposed Changes to the Air Monitoring Network for 2013-2014

- Discontinue Pb (lead) sampling at New Haven.
- Report all continuous PM<sub>2.5</sub> sampler data for NAAQS compliance (currently 4 of 8).
- Discontinue manual PM<sub>2.5</sub> sampling at Westport.
- Reduce manual PM<sub>2.5</sub> sampling frequencies to 1/3 at NCore and near-road, 1/6 at remaining sites.
- Discontinue PAMs VOCs and NOx monitoring at Westport.
- Discontinue wind monitoring at Mansfield.

#### Pb Monitoring Results

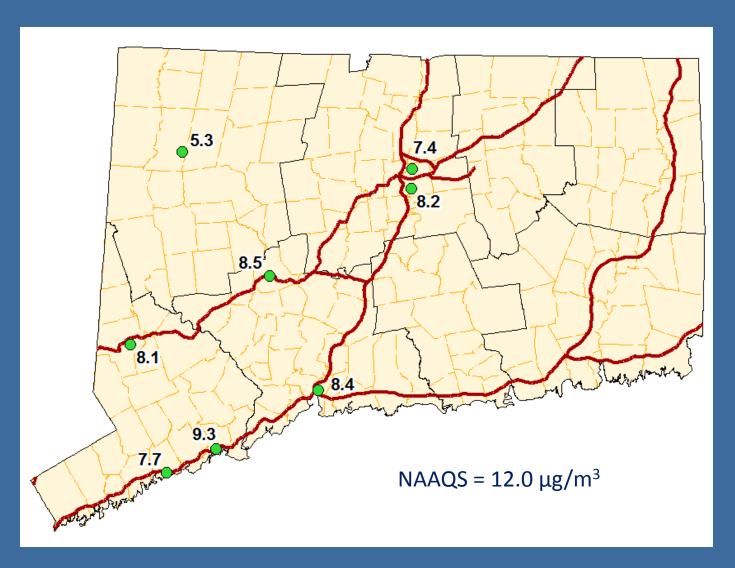
### Connecticut Pb-PM10 3-Month Rolling Average Values 2010-2014



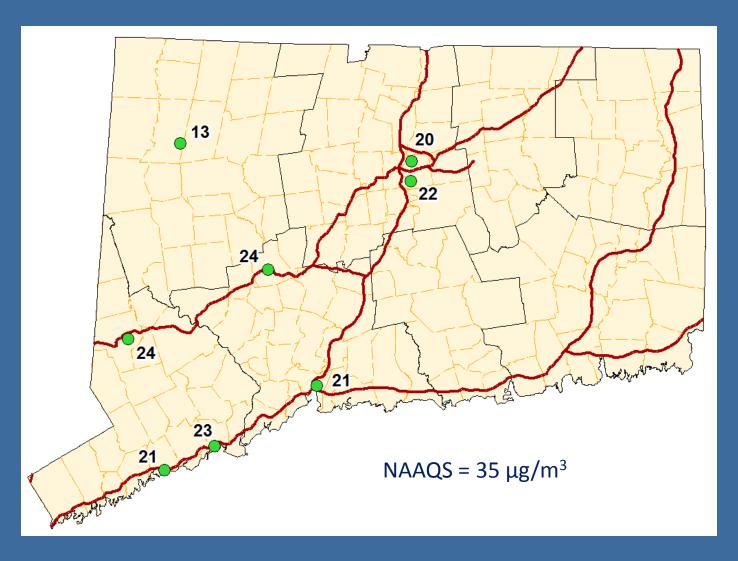
### PM<sub>2.5</sub> Monitoring Network



### 2014 Annual PM $_{2.5}$ Design Values ( $\mu g/m^3$ )



## 2014 Daily PM<sub>2.5</sub> Design Values (μg/m³)



### PM<sub>2.5</sub> Network Requirements 40 CFR Appendix D

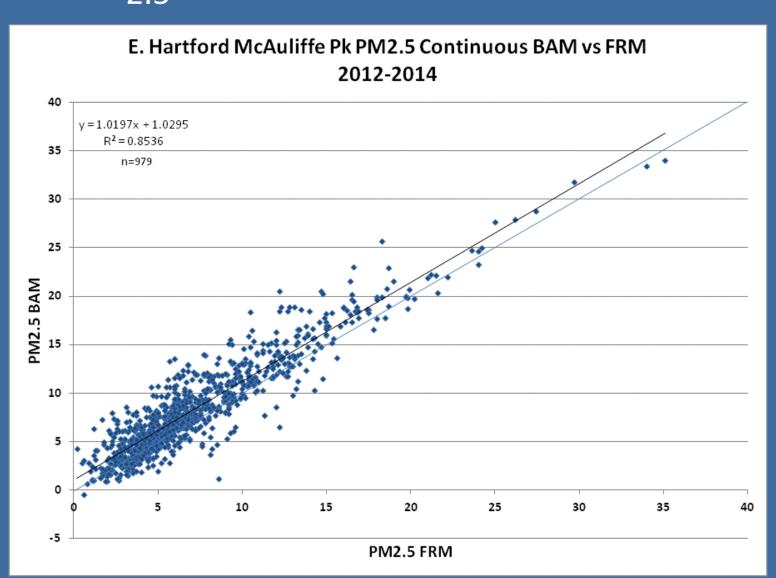
Metropolitan Statistical Area	Estimated 2013 Population	Design Values > 85% PM2.5 NAAQS?	No. Monitors	Minimum No. Monitors Required
Bridgeport-Stamford-Norwalk	939,904	N	3	1
Hartford-West Hartford-East Hartford	1,215,211	N	2	2
New Haven-Milford	862,287	N	2	1
Norwich-New London	274,150	N	1	0
Worcester (incl. Windham County)	926,710	N	2 (MA)	1
Torrington (non-MSA)	186,924	N	1	1

### Manual vs. Continuous PM Samplers

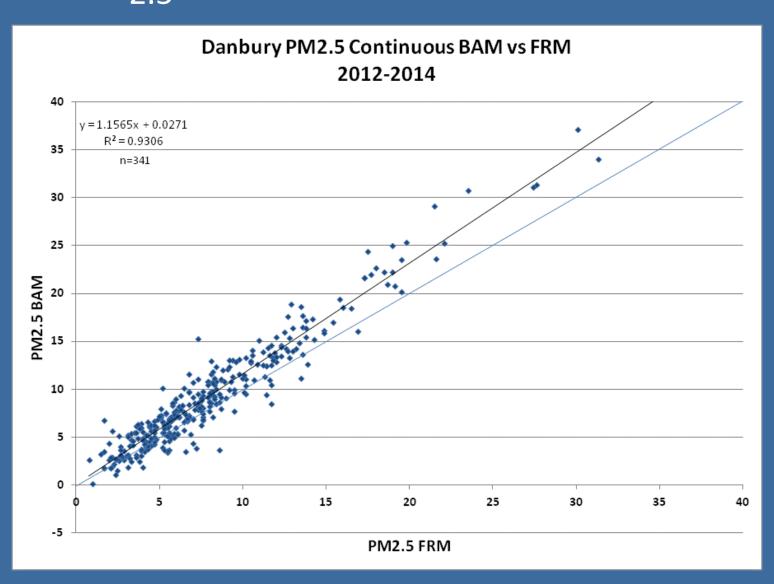




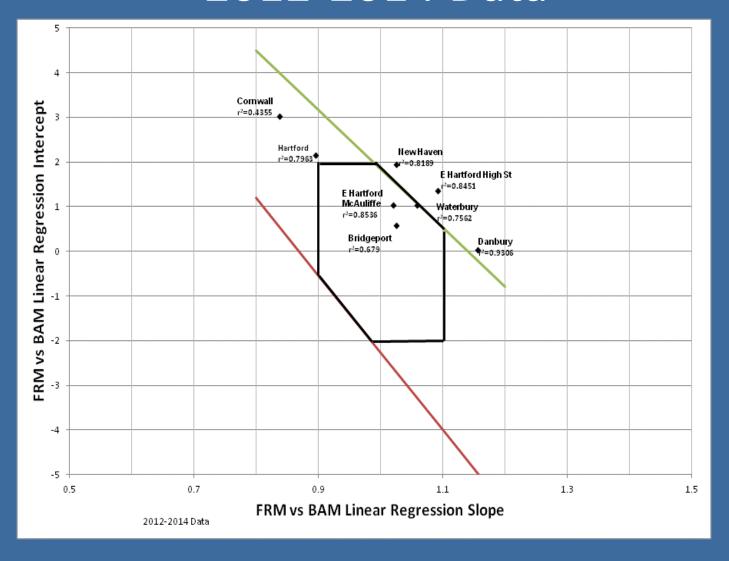
### PM<sub>2.5</sub> FRM vs. FEM Correlation



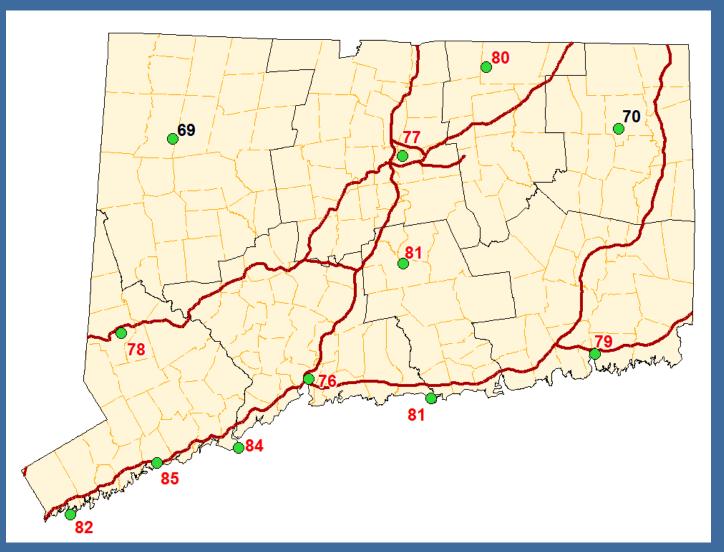
### PM<sub>2.5</sub> FRM vs. FEM Correlation



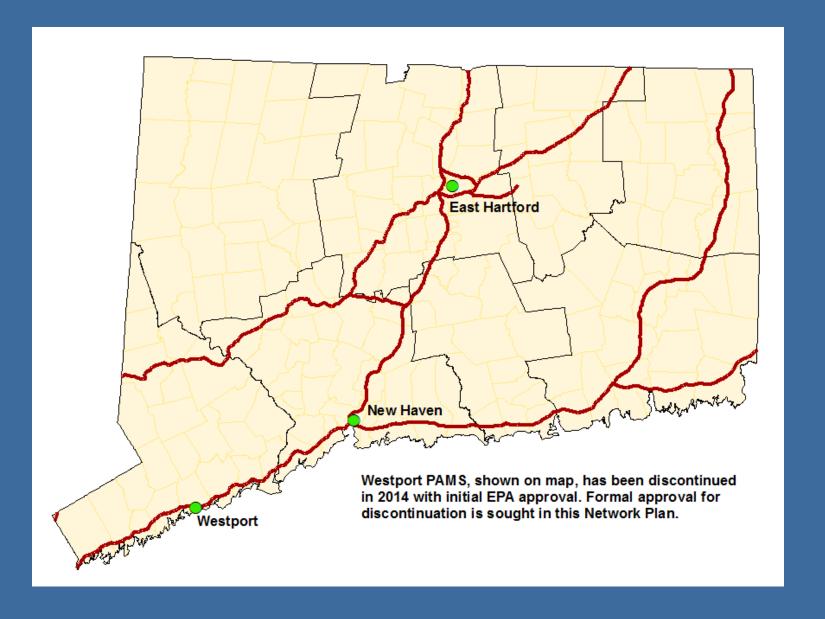
### PM<sub>2.5</sub> FRM vs. BAM Correlation 2012-2014 Data

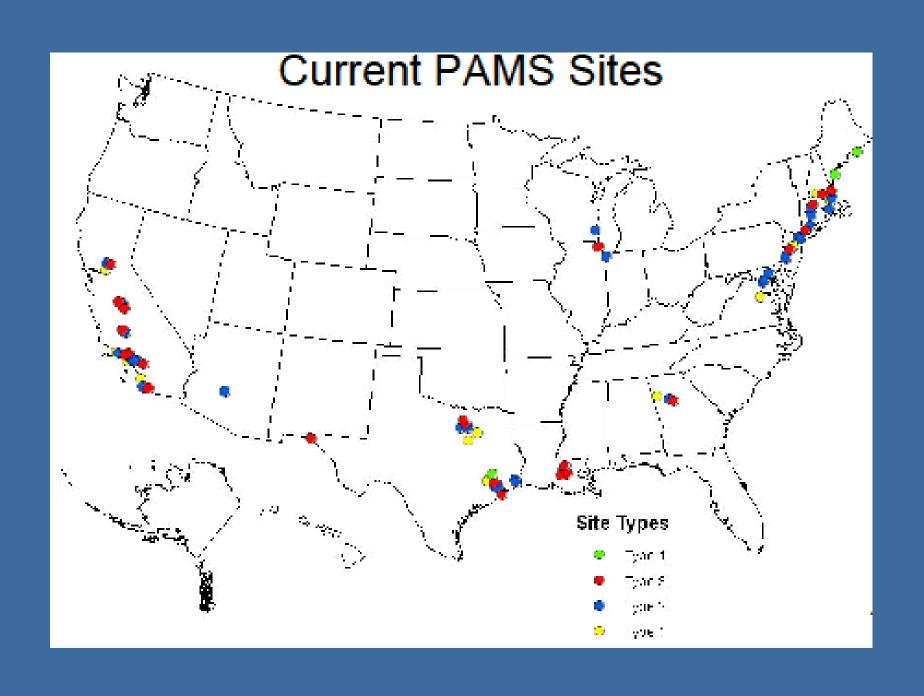


# 2014 Ozone Design Values (ppb)

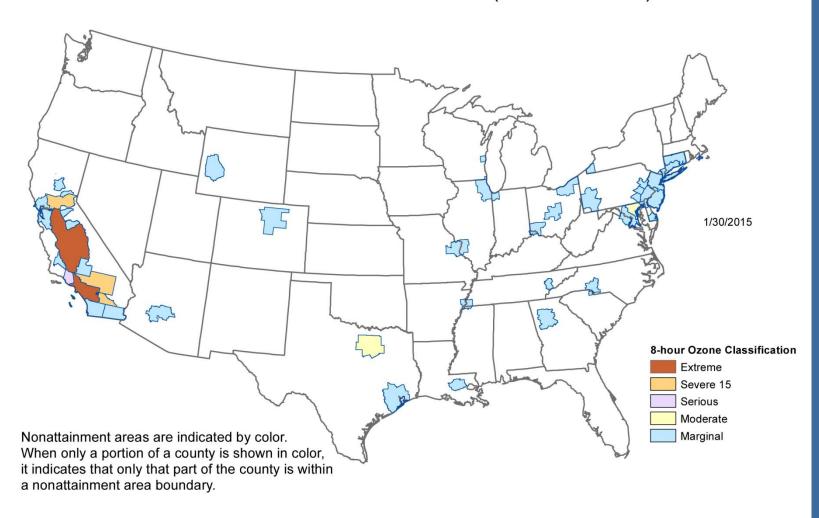


#### PAMS VOCs Network





#### 8-Hour Ozone Nonattainment Areas (2008 Standard)



- Draft Network Plan will be posted on DEEP website for public review
- http://www.ct.gov/deep/cwp/view.asp?a=268
   4&Q=321798&deepNav GID=1744
- Submit comments to:

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