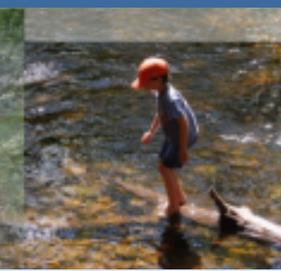
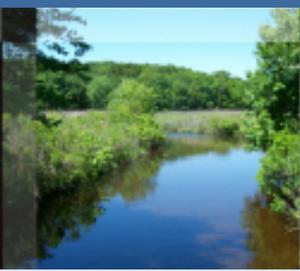




Connecticut Department of Energy and Environmental Protection



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

2017 Air Monitoring Network Plan

May 11, 2017
Randall Semagin
SIPRAC



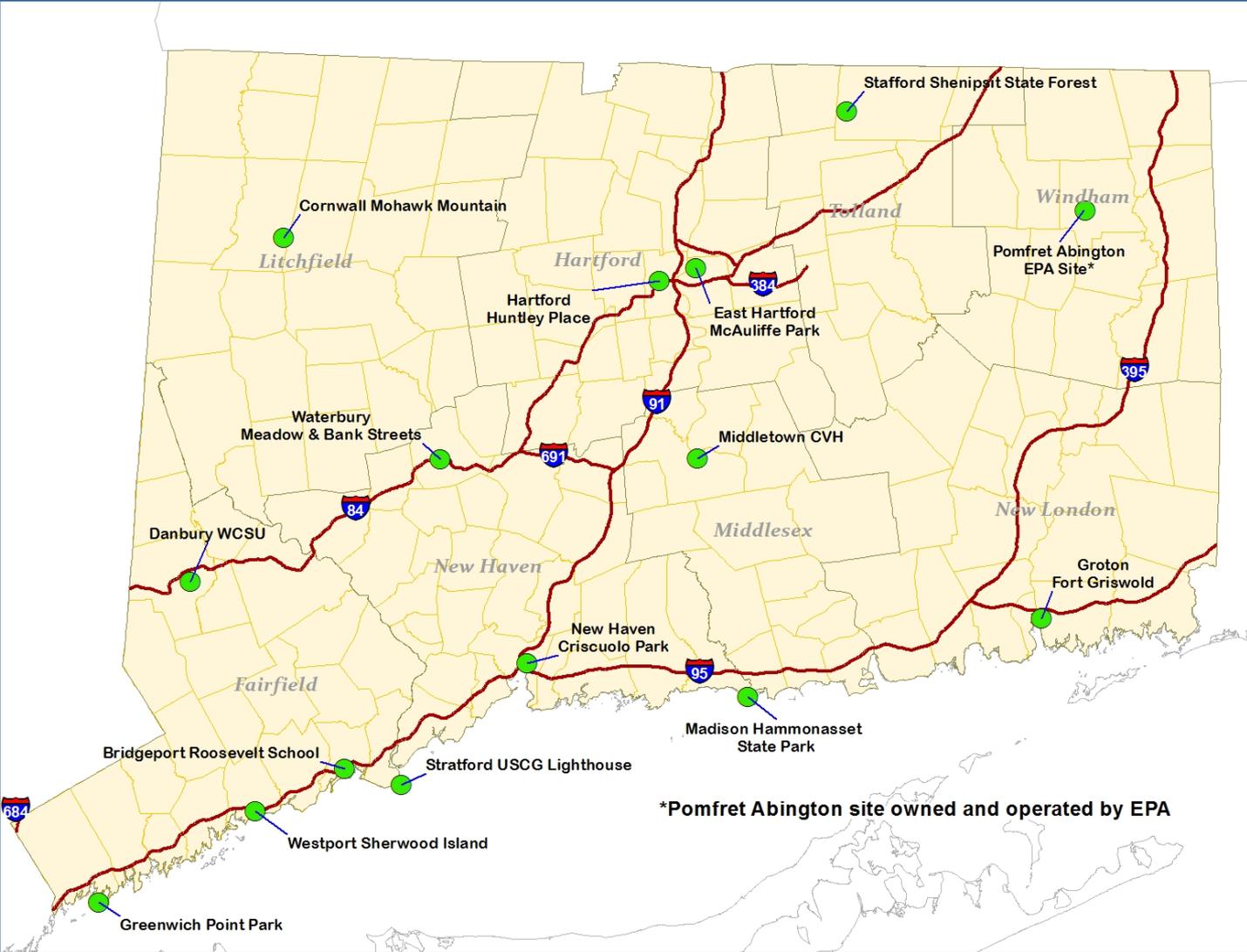
Connecticut Department of Energy and Environmental Protection

Proposed Changes for 2017-2018

- Discontinue SO₂ monitoring in East Hartford (March 31, 2017).
- Discontinue CO monitoring in East Hartford (March 31, 2017).
- Move Middletown O₃ site to a new location on the CVH campus (summer 2017).

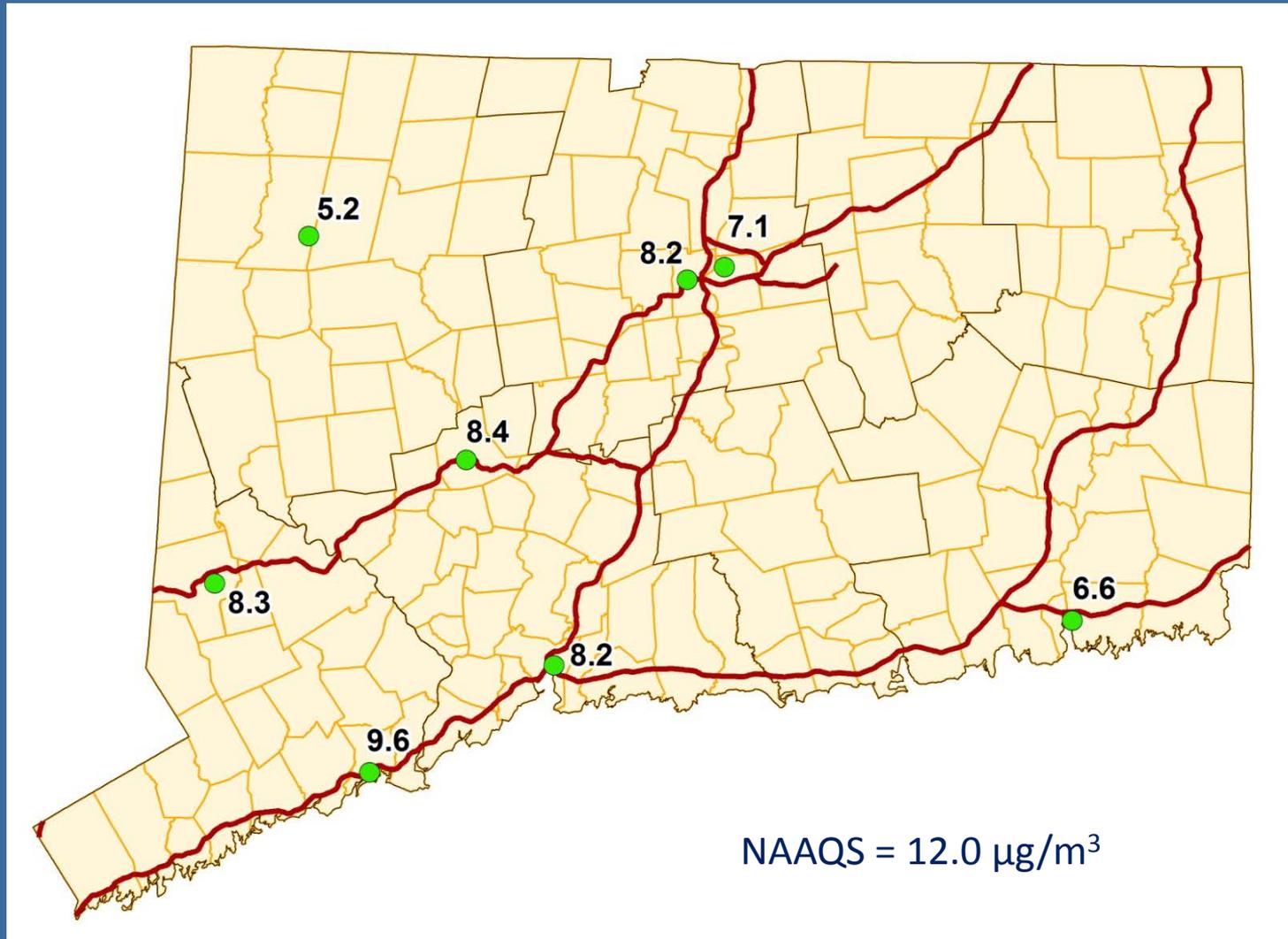


DEEP Current Monitoring Network

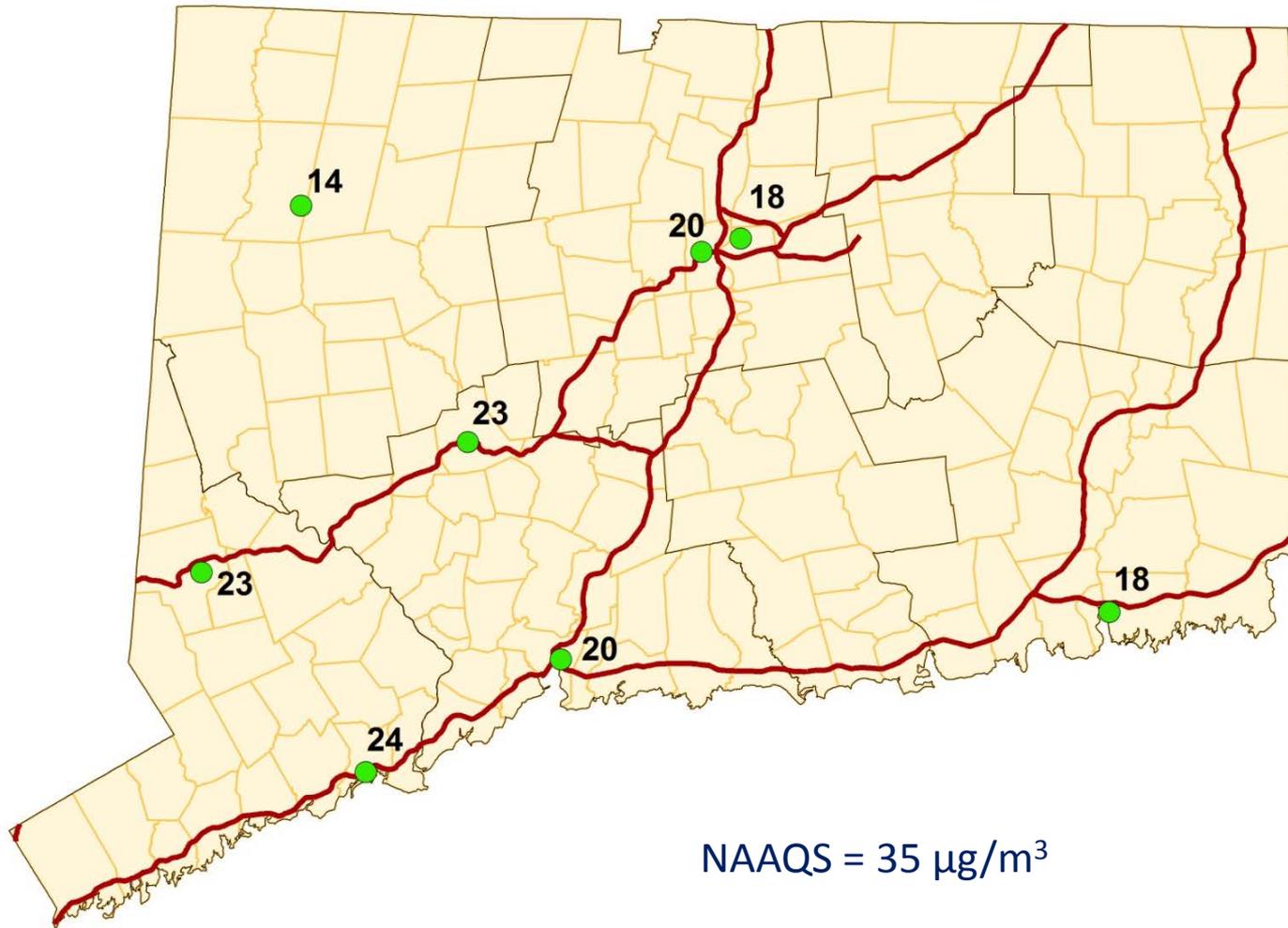


Connecticut Department of Energy and Environmental Protection

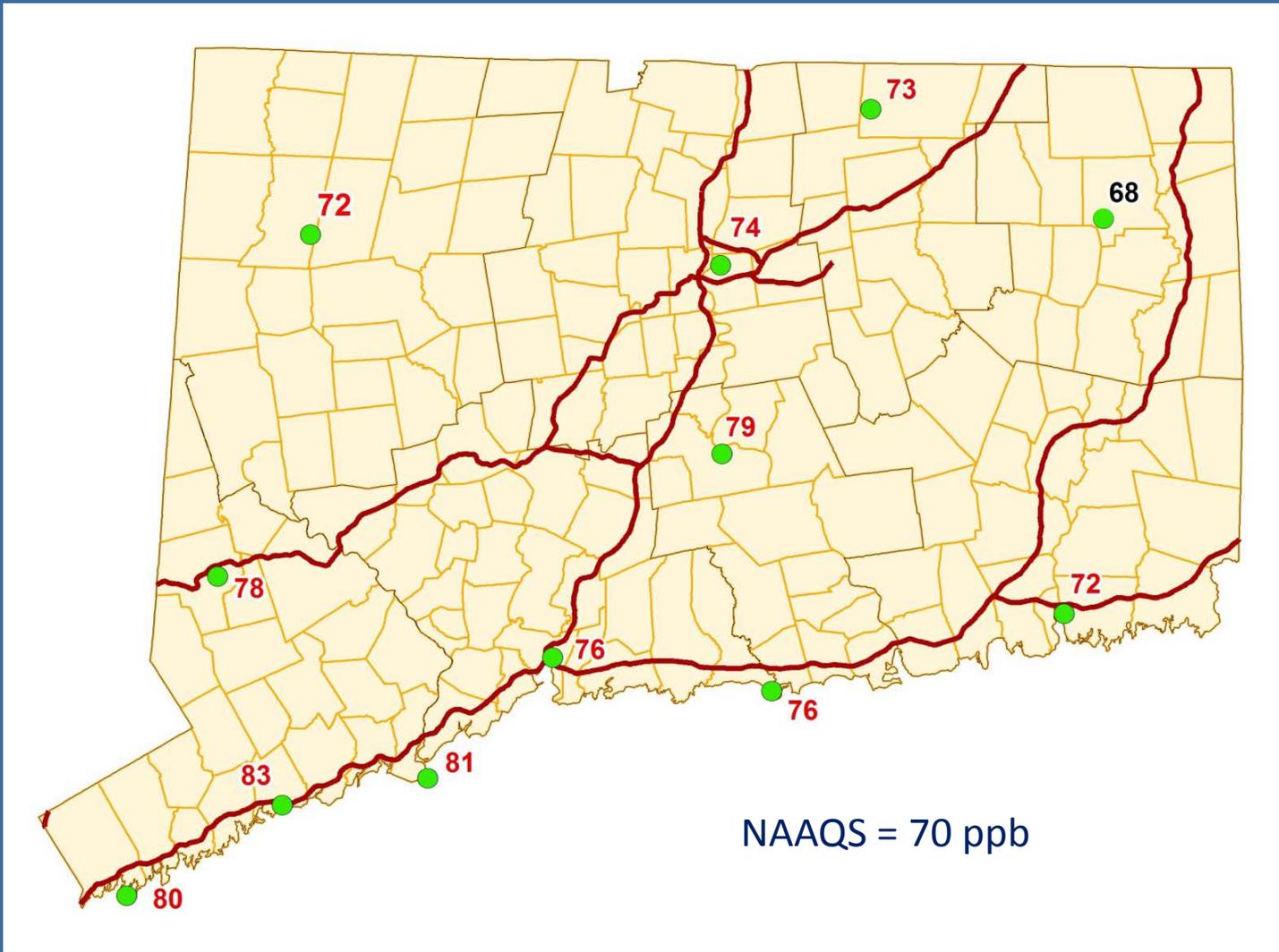
2016 Annual PM_{2.5} Design Values ($\mu\text{g}/\text{m}^3$)



2016 Daily PM_{2.5} Design Values ($\mu\text{g}/\text{m}^3$)



2016 Ozone Design Values (ppb)



SO₂ Monitoring Network Requirements

- NCore sites.
- Population weighted emissions index (PWEI).
- Regional Administrator required monitoring.



Connecticut SO₂ PWEI Values

Core-Based Statistical Area (CBSA)	SO ₂ (tpy)	Population	PWEI (MMperson- tons/yr)
Bridgeport-Stamford-Norwalk, CT	3573.11	948053	3387
Hartford-West Hartford-East Hartford, CT	3762.76	1211324	4558
Torrington, CT	731.01	183603	134
New Haven-Milford, CT	2690.13	859470	2312
Norwich-New London, CT	1209.38	271863	329
Worcester, MA-CT	2258.63	935536	2113



CO Monitoring Network Requirements

- NCore sites.
- Near-road sites in areas with population > 1M.
- Regional Administrator required monitoring.



Criteria Pollutant NAAQS 2016 Design Values

CO

Site	1-Hr Design Value (ppm)	8-Hr Design Value (ppm)
Bridgeport	2.5	1.5
Cornwall	3.4	0.7
East Hartford	1.3	1.1
Hartford	2.2	1.5
New Haven	2.0	1.2
NAAQS	35	9

NO₂

Site	1-Hr Design Value (ppb)	Annual Design Value (ppb)
East Hartford	45	9
Hartford	52	16
New Haven	53	14
NAAQS	100	53

PM₁₀

Site	Daily Design Value (µg/m ³ STP)
Bridgeport	40
Cornwall	30
East Hartford	30
Hartford	60
New Haven	40
NAAQS	150

SO₂

Site	1-Hr Design Value (ppb)
Bridgeport	6
Cornwall	5
East Hartford	6
New Haven	9
NAAQS	75

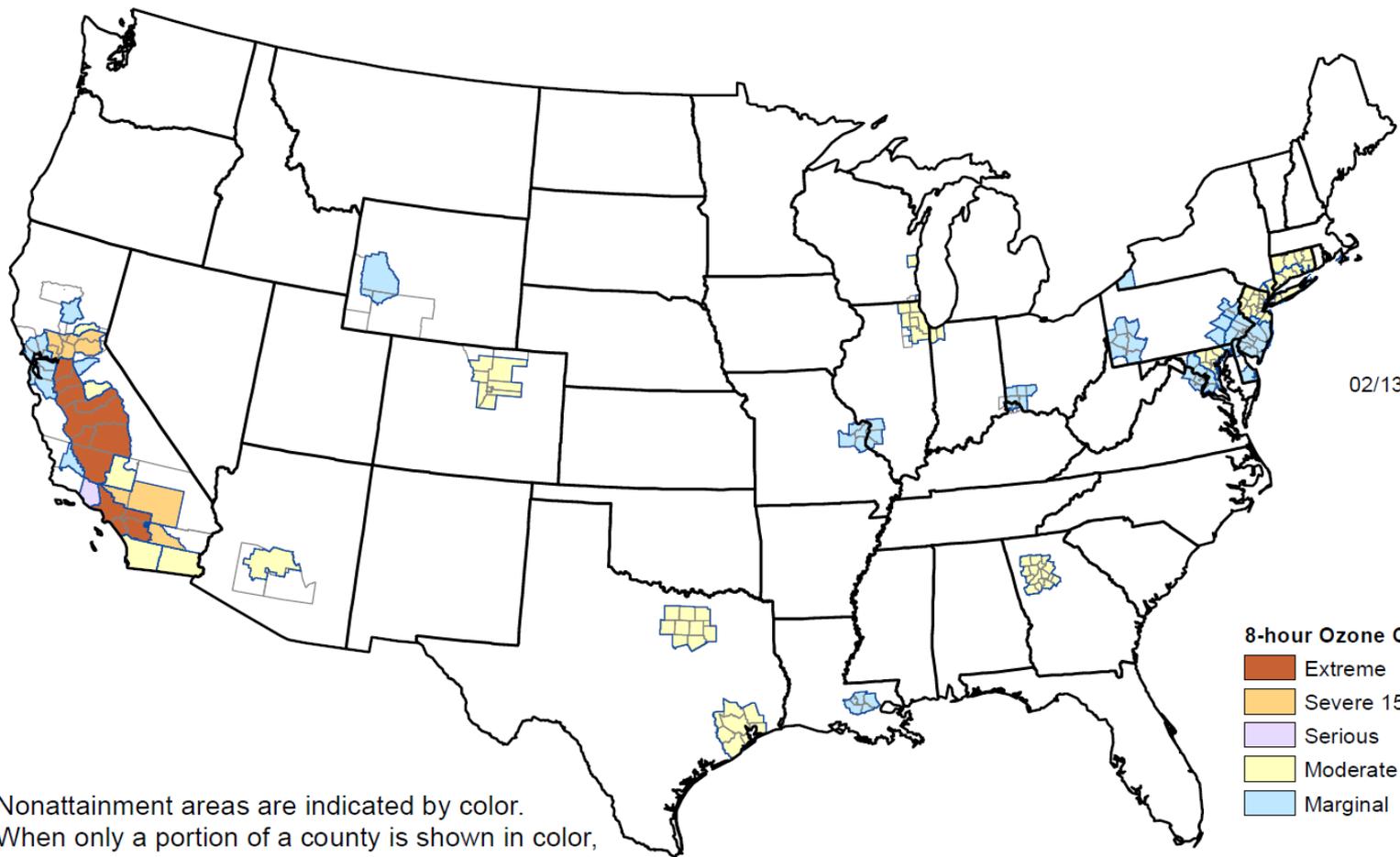


Ozone Precursor Monitoring

- Previous CT Precursor Assessment Monitoring Stations (PAMS): 4 sites → 3 sites → 2 sites.
- 2015 O₃ rule: PAMS VOC/Carbonyl monitoring at all NCore stations in areas with pop. > 1M.
- Also, states in OTR with > marginal nonattainment must submit enhanced monitoring plans (EMPs).



2008 Ozone NAAQS Designations



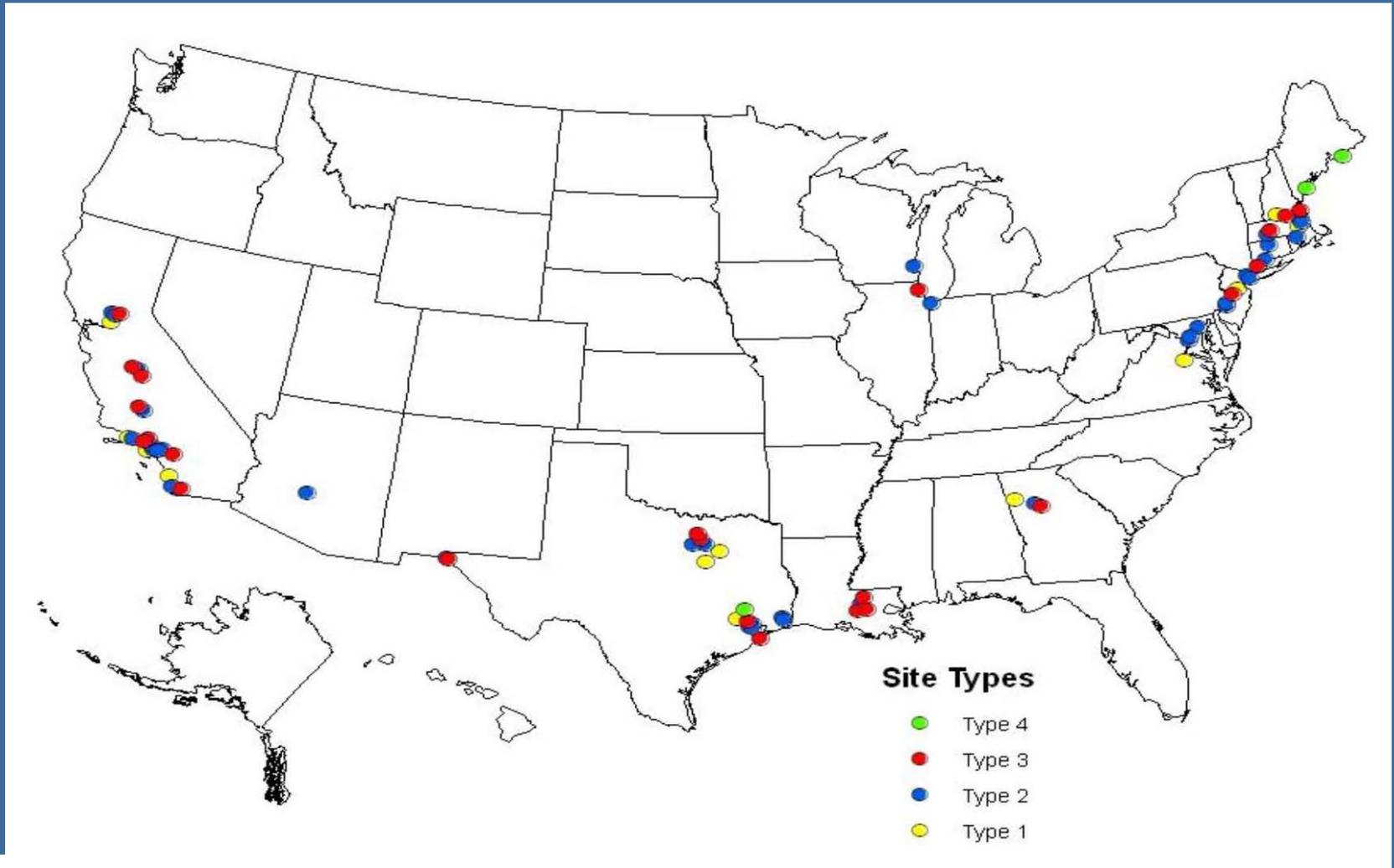
02/13/2017

- 8-hour Ozone Classification**
- Extreme
 - Severe 15
 - Serious
 - Moderate
 - Marginal

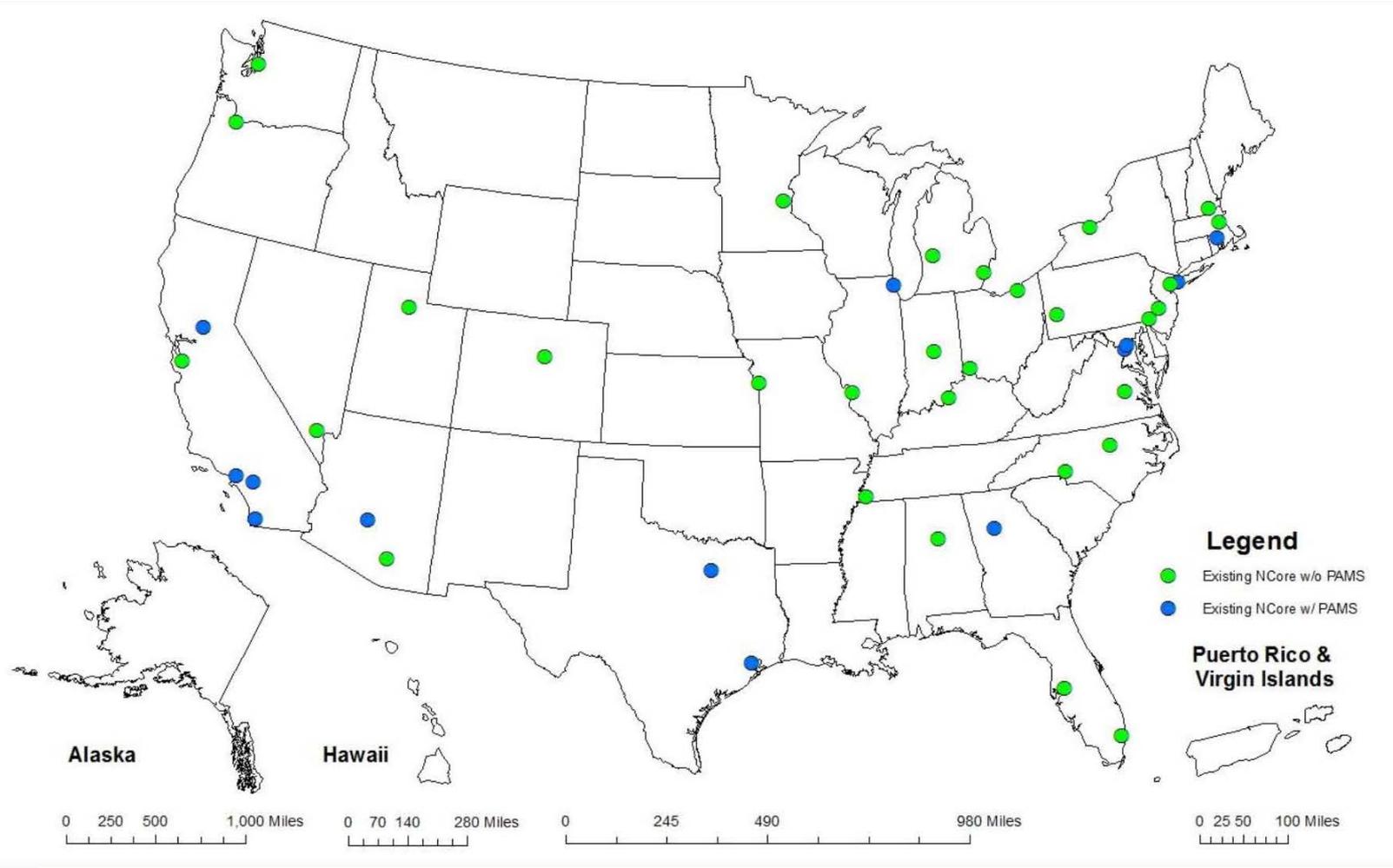
Nonattainment areas are indicated by color. When only a portion of a county is shown in color, it indicates that only that part of the county is within a nonattainment area boundary.



Current PAMS Sites



Proposed PAMS Sites



- Draft Network Plan will be posted on DEEP website for public review
- http://www.ct.gov/deep/cwp/view.asp?a=2684&Q=321798&deepNav_GID=1744Submit
- Comments to:
Randall Semagin
DEEP/Air Management
79 Elm St, Hartford, CT 06106
randall.semagin@ct.gov

