



Connecticut Department of Energy and Environmental Protection



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

2022 Air Monitoring Network Plan

June 9, 2022

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SIPRAC



Connecticut Department of Energy and Environmental Protection

Background

- Annual network plan requirements specified in 40 CFR 58.10. These include QA/QC, methodology, network design, probe and monitoring path and siting criteria.
- Plan submitted annually by July 1, with 30 day comment period. Approved by EPA RA.
- Detailed network assessment performed every 5 years, most recently 2020.



Network Design Criteria

- NCore multi-pollutant sites: $PM_{2.5}$, $PM_{10-2.5}$, O_3 , SO_2 , CO, NO, NO_y , speciated $PM_{2.5}$, meteorology.
- Minimal requirements for CO, SO_2 , NO_2 (near-road, source/population oriented, regional administrator required).
- SLAMS minimum requirements for PM and O_3 based on ambient levels and population.
- Enhanced monitoring plan (EMP) for ozone – allows flexibility to address state's specific O_3 problem; may include additional $O_3/NO_x/NO_y$ monitors, enhanced meteorology, precursors/related species.

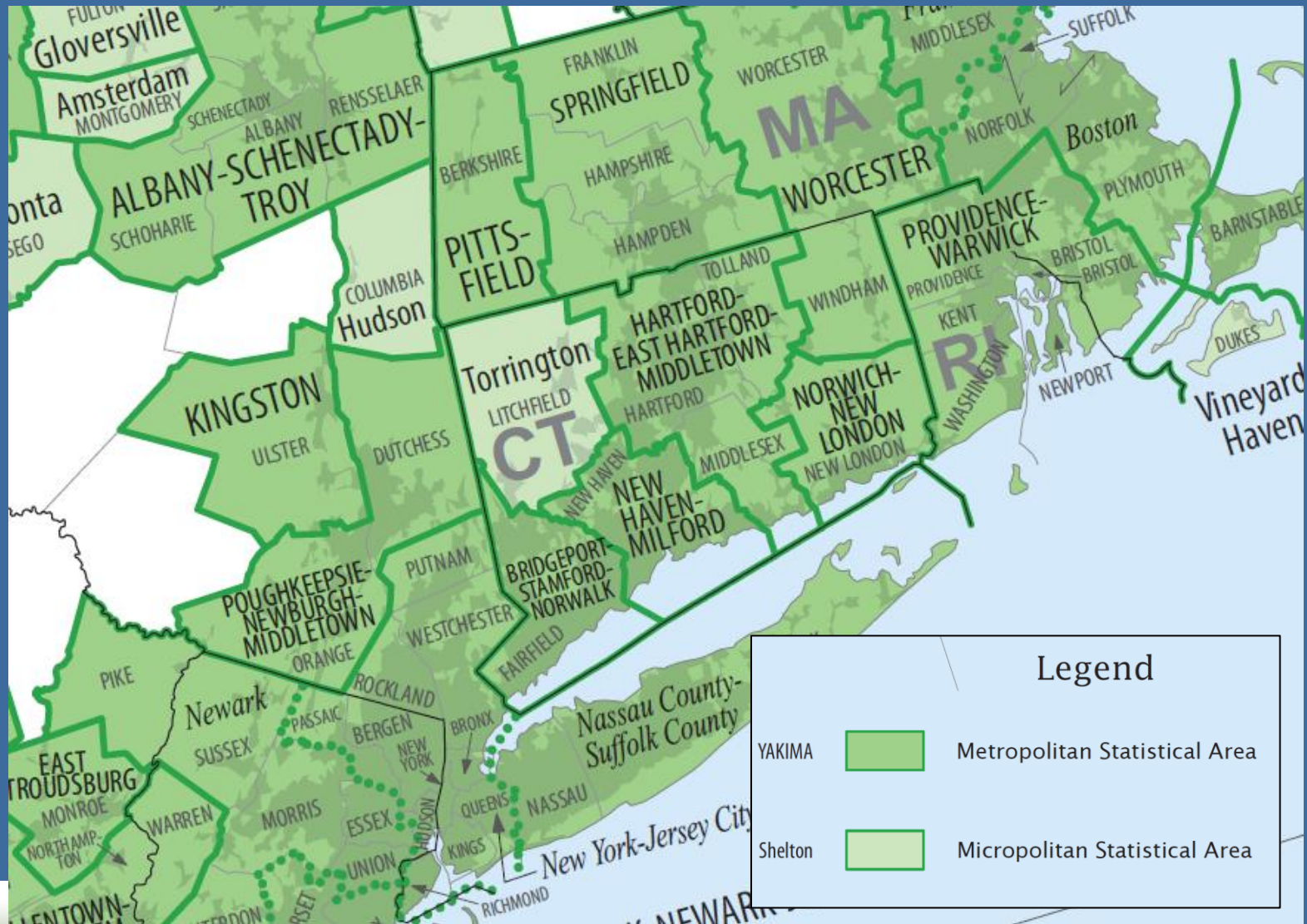


Network Plan

- Provides a description of the air monitoring network and proposed changes through the following year (2022-2023)
- Indicates compliance with 40 CFR 58 App A-E
 - Quality assurance for NAAQS and PSD monitors
 - Monitoring methodology
 - Monitoring network design
 - Probe and monitoring path siting criteria



Core-Based Statistical Areas (CBSAs)

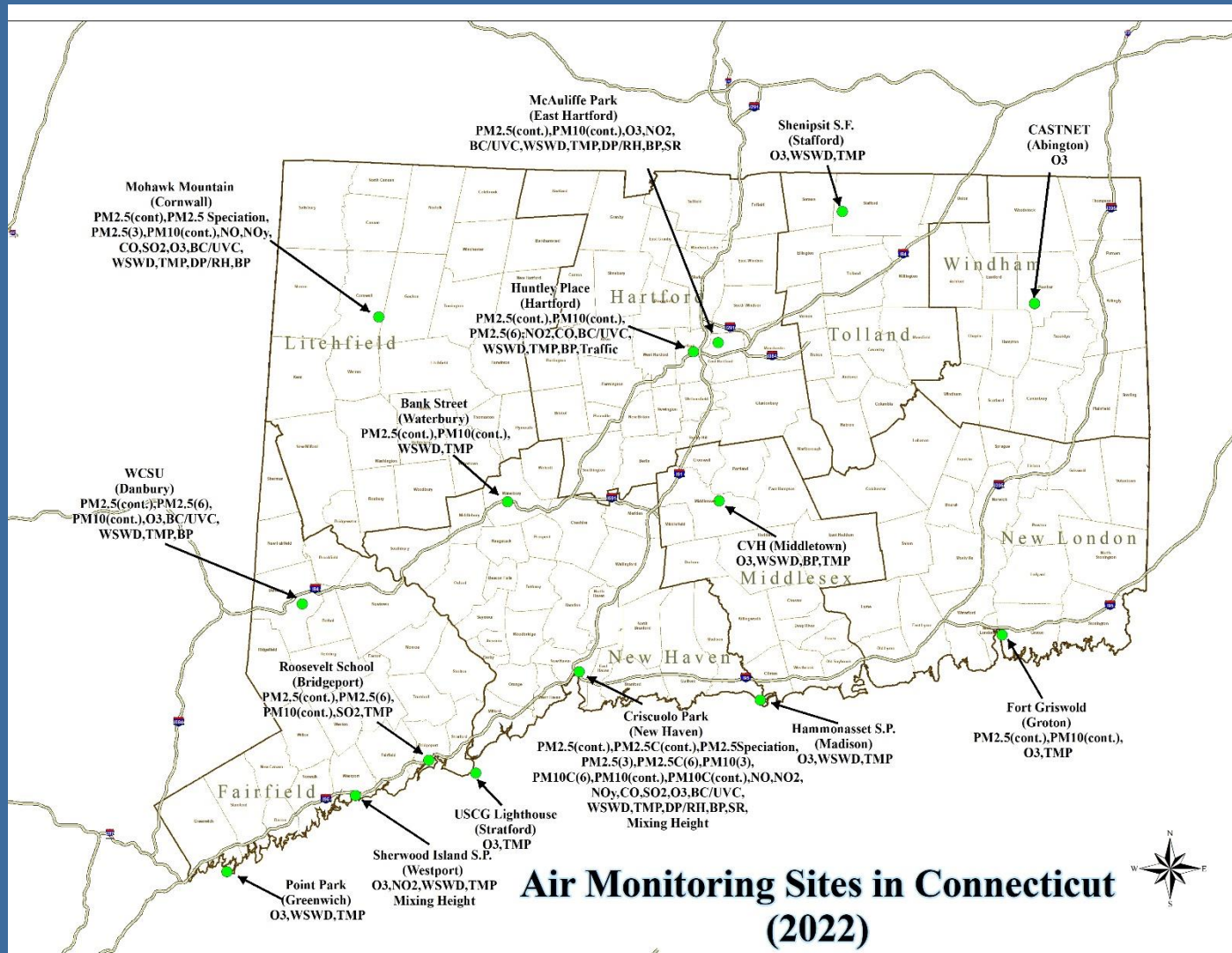


Connecticut CBSAs

CBSA Code	CBSA Name	Counties included in CBSA	Population (2019 Estimate)
14860	Bridgeport-Stamford-Norwalk	Fairfield	943,332.00
25540	Hartford-East Hartford-Middletown	Hartford, Middlesex, Tolland	1,204,877.00
35300	New Haven-Milford	New Haven	854,757.00
35980	Norwich-New London	New London	265,206.00
49340	Worcester	Worcester, MA, Windham, CT	947,404.00
45860	Torrington (Micropolitan Statistical Area)	Litchfield	180,333.00



DEEP Current Monitoring Sites



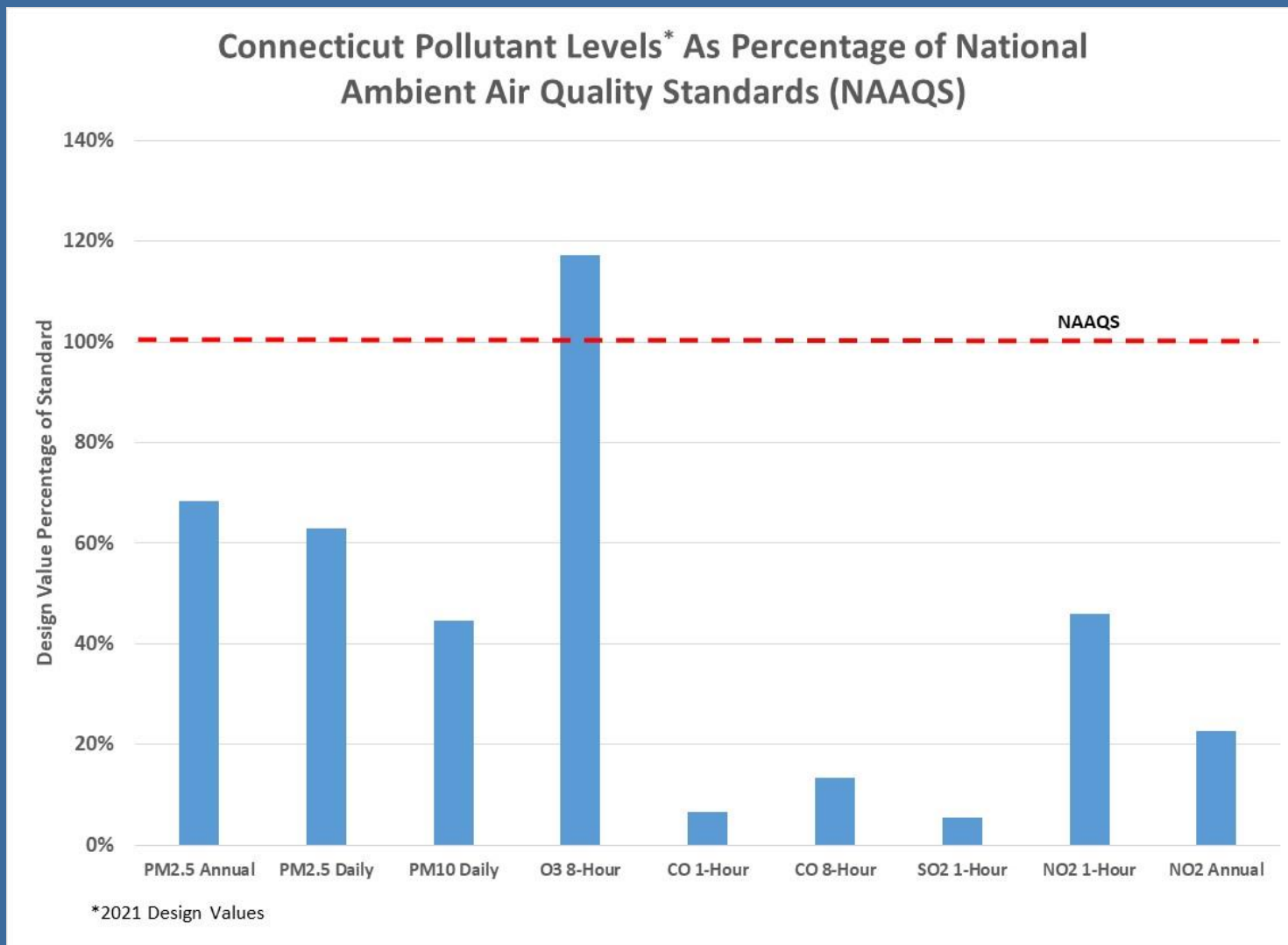
CT DEEP Monitoring Parameters

Town	PM	O ₃	NO ₂	SO ₂	CO	NO _y	BC ¹	PM-SPEC ²	WIND
Bridgeport	*			*					
Cornwall	*	*		*	*	*	*	*	*
Danbury	*	*					*		*
East Hartford	*	*	*				*		*
Greenwich		*							*
Groton	*	*							
Hartford	*		*		*		*		*
Madison		*							*
Middletown		*							*
New Haven	*	*	*	*	*	*	*	*	*
Stafford		*							*
Stratford		*							
Waterbury	*								*
Westport		*	*						*
Pomfret (EPA)		*							

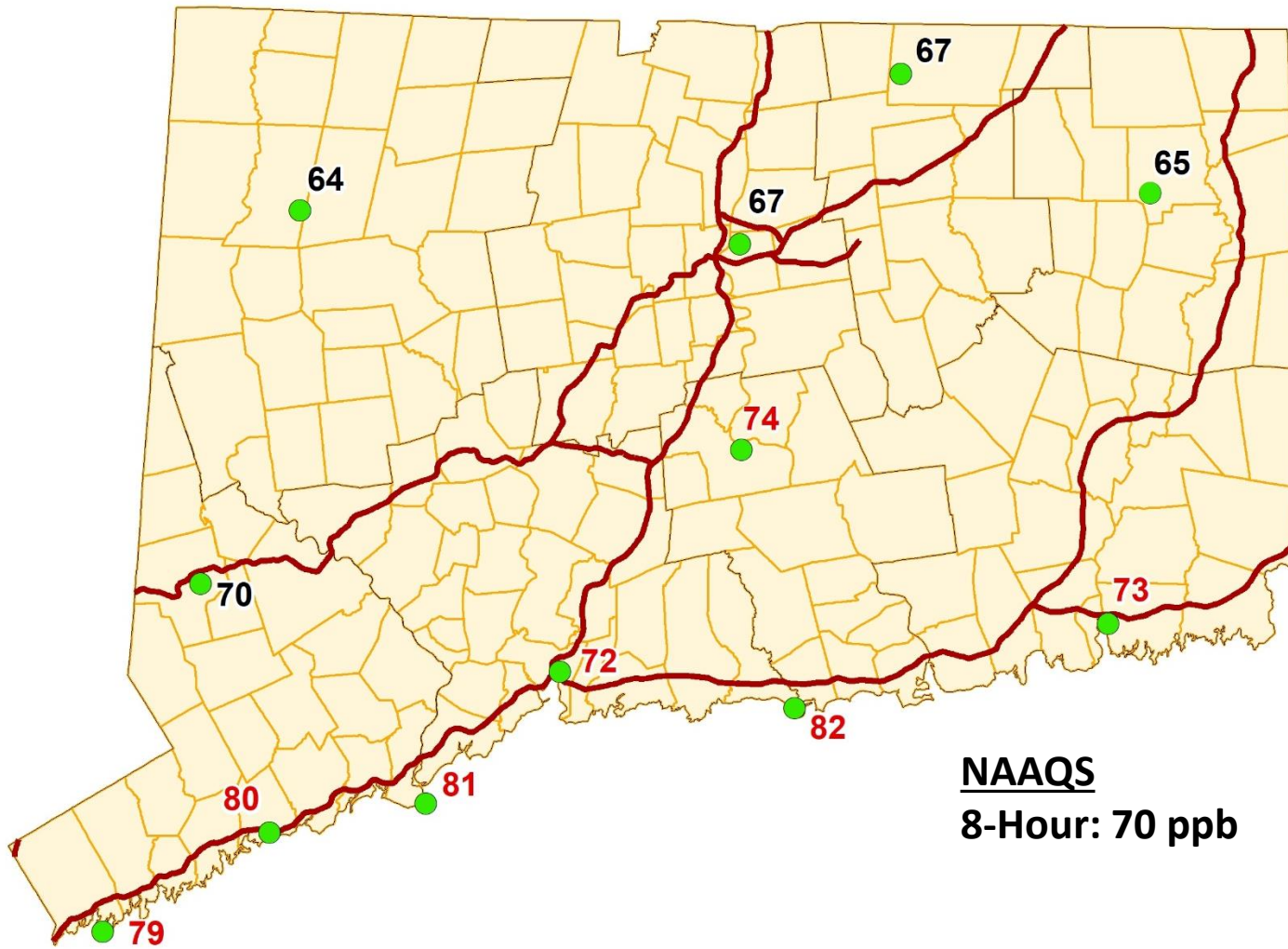
1. Black carbon 2. Fine particulate speciation



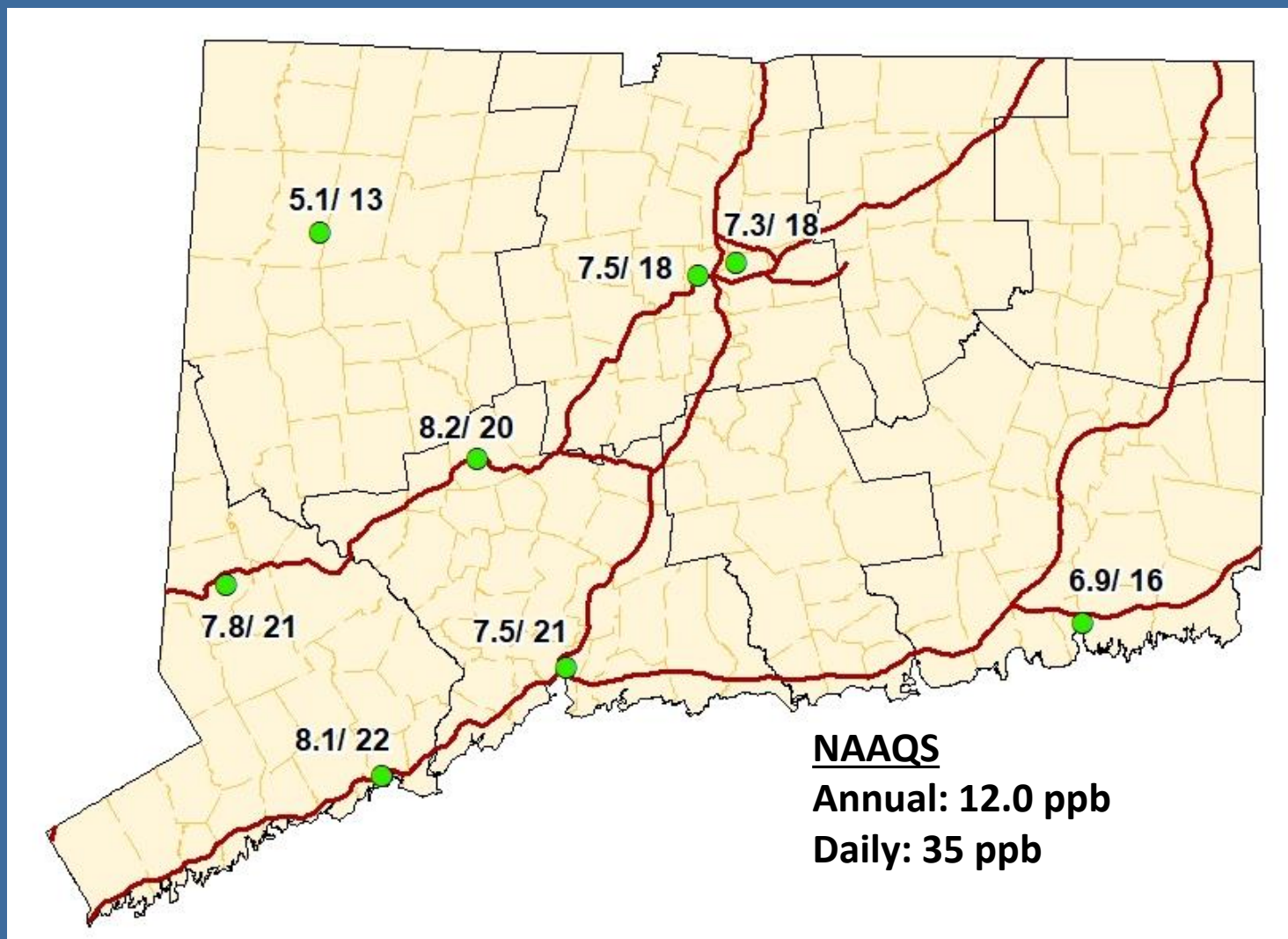
Criteria Pollutant Levels



2021 Design Values: Ozone



2021 Design Values: Fine Particulates



Proposed Network Changes for 2022-2023

- Assess continuous formaldehyde (HCHO) methods for potential future deployment to one or more coastal ozone sites.
- No current monitors are planned for removal during 2022 – 2023.



Questions?

- Draft Network Plan will be posted on DEEP website for public review until June 17
- https://portal.ct.gov/-/media/DEEP/air_monitoring/CT2022NetworkPlanDraft.pdf
- Comments to:
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