

A large, faint watermark of the United States Environmental Protection Agency (EPA) logo is centered in the background. The logo features a stylized flower with three leaves and a scalloped top, surrounded by the text "UNITED STATES ENVIRONMENTAL PROTECTION AGENCY".

Speciation Network Update and Overview

Beth Landis

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Speciation Network Update

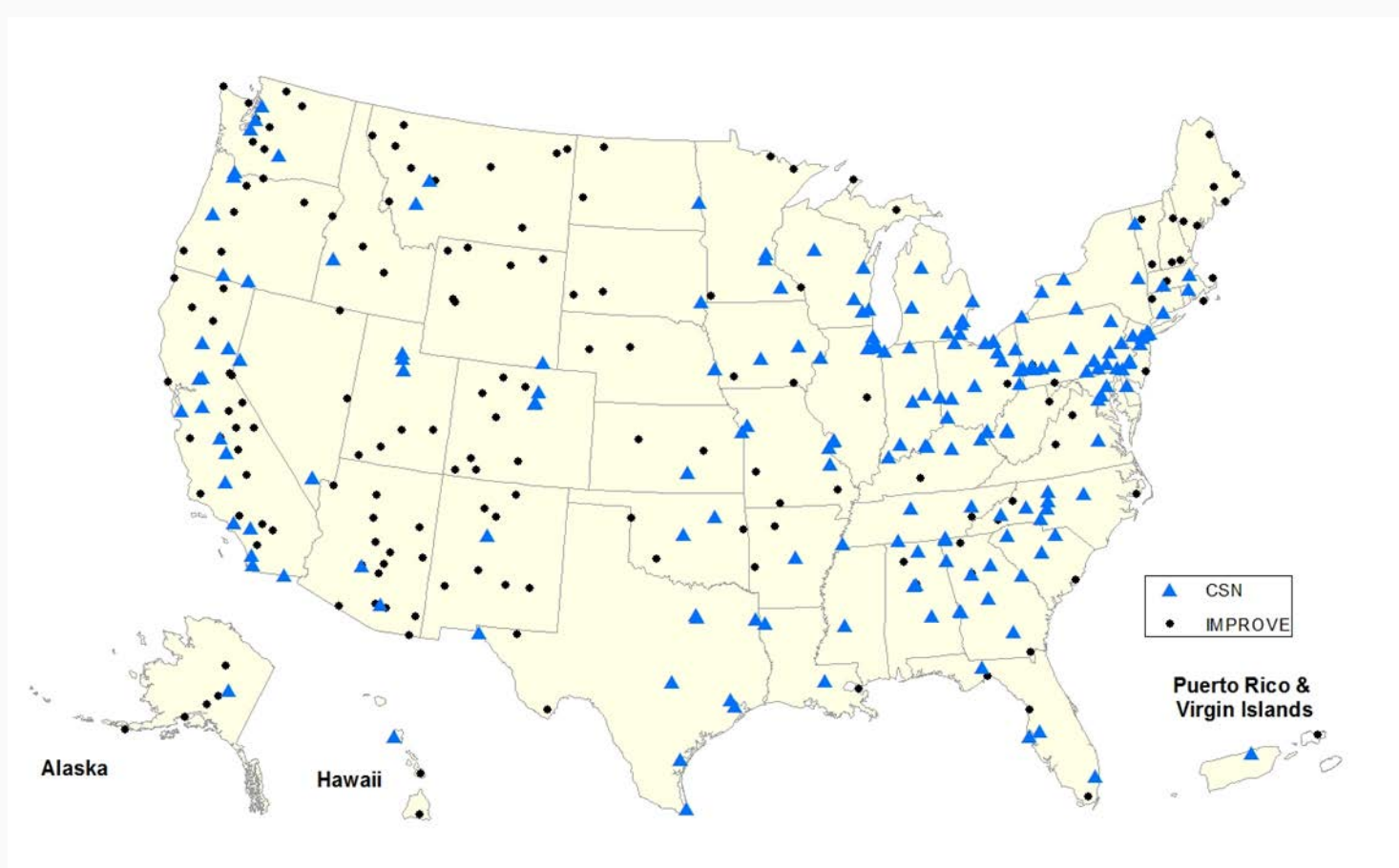
- 2014 Chemical Speciation Network Assessment Results:
 - CSN PM_{2.5} mass measurement eliminated
 - 38 CSN Sites defunded
 - Sample frequency reduced at 3 CSN Sites
 - Carbon blank collection frequency reduced
 - Icepacks in shipment reduced during cooler months
- 2015 IMPROVE Protocol Assessment Results:
 - 8 IMPROVE Protocol Sites defunded

CSN & IMPROVE Protocol Assessment Website

<https://www.airqa.org/csna>



Current Speciation Networks





CSN Contract Transition

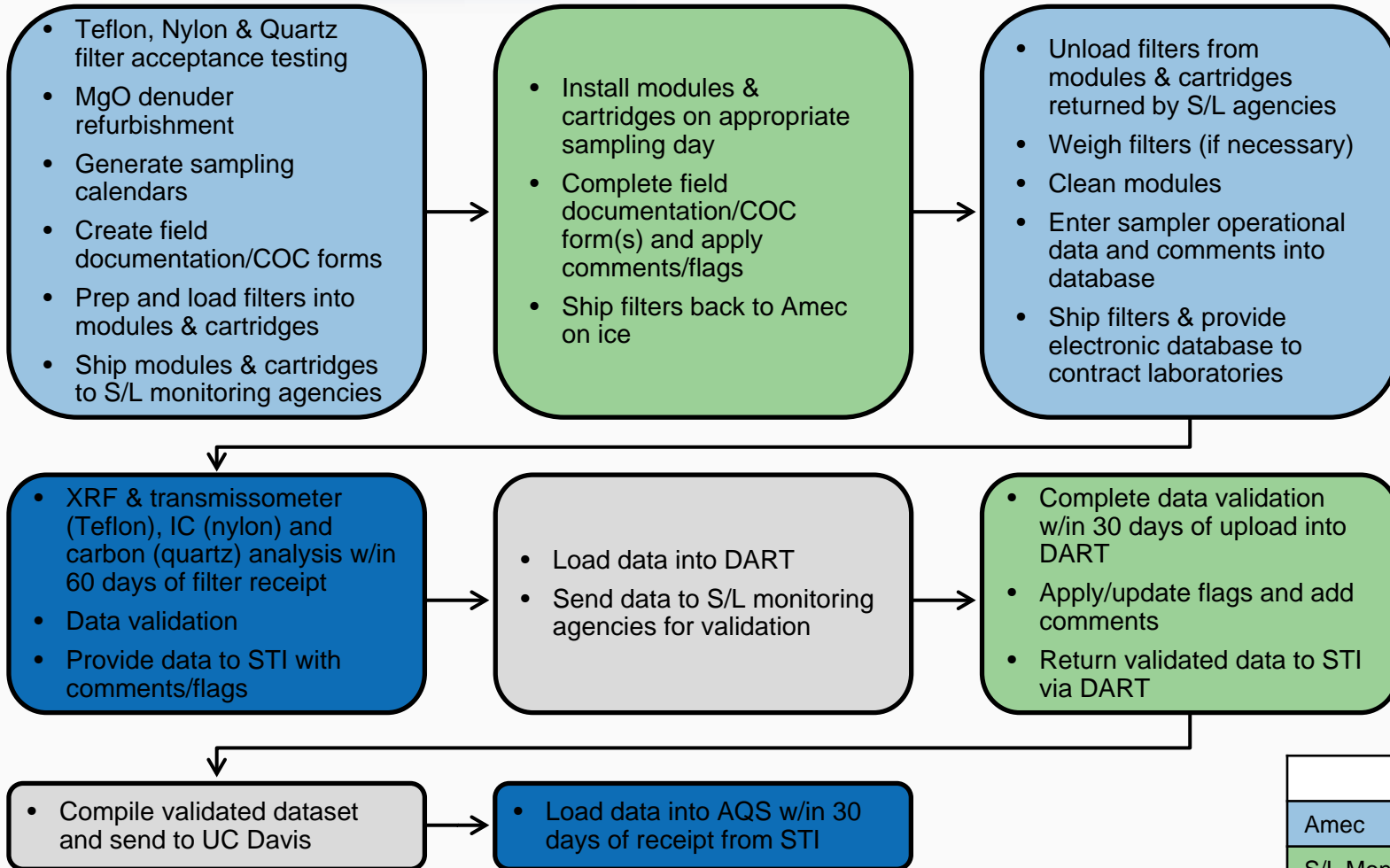
- RTI served as the national contract laboratory from 1999 – 2015
- In September 2015, the contract was split into 2 pieces and awarded to:
 - Amec Foster Wheeler – shipping, handling and gravimetric mass contract
 - UC Davis – laboratory analysis contract
- RTI's QA Review Website and Speciation Data Validation Analysis Tool (SDVAT) are no longer available
- STI has updated the Data Analysis and Reporting Tool (DART) to accommodate CSN data for validation purposes



CSN Network Changes

- Transitioning from DOPOs to 10 CSN Regional Representatives
- AQS reporting requirement relaxed to 120 calendar days after receipt of filters by the analysis laboratory
 - 60 days for analysis
 - 30 days for review/validation
 - 30 days for upload to AQS
- Updated MDL & uncertainty calculations
- Organic artifact adjustment

CSN Responsibilities



Key
Amec
S/L Monitoring Agencies
UC Davis
STI



CSN Reinvestment

- Resources available from the assessment are being used to fund:
 - FT-IR research for carbon aerosol analysis
 - Purchase of MetOne SuperSASS for all 1-in-3 CSN sites with SASS (to allow for sequential sampling)
 - Development/improvement of DART for CSN
 - Tracking of CSN data changes due to contract transition
 - Investigation of Transmissometer measurements on Teflon filters and best options for reporting of data



Important CSN Contacts

Role	Contact	Phone Number	Email
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CSN Regional Representatives



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Questions?

