



Florida Department of Environmental Protection

Network Modifications and Reminders

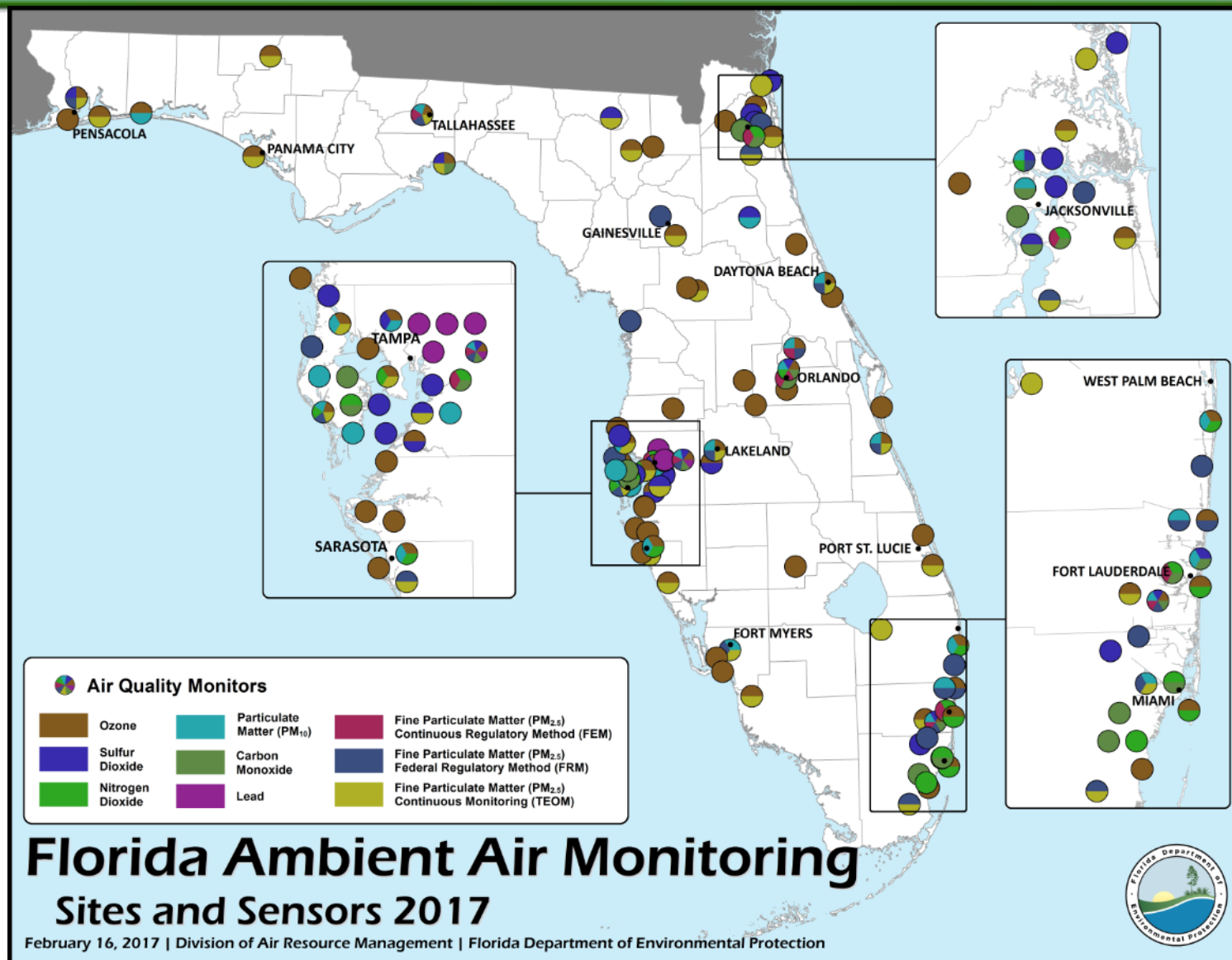
April 26, 2017





Florida's Ambient Air Monitoring Network

- ❑ 102 Sites
- ❑ 236 Monitors
- ❑ 37 of Florida's 67 counties
- ❑ Monitor the air quality for over 91.43% population
- ❑ Collect over 12 million data points annually for criteria pollutants only!





Ambient Air Monitoring Data

□ Air monitoring data are critical for:

o Regulatory decisions

- Determining compliance with National Ambient Air Quality Standards
- Supporting environmental litigation assessments and evaluations

o Basis for developing State Implementation Plans (SIP) and Control Strategies

- Determine an area's design value
- Evaluate any issues and level of control required
- Modeling analyses to assess performance

o Research Health Studies and Air Quality Reporting and Forecasting

- American Lung Association State of the Air
- AirNow



Major PQAO Network Changes

☐ CO Network:

- o Reduction of the CO network
 - Single CO monitor site closures
 - Miami-Dade County – Coral Reef
 - City of Jacksonville – Lee High School

☐ PM_{2.5} Network:

- o Reduction of the PM_{2.5} FRM network
 - Converting from FRMs to FEMs
 - Decreasing collocated FRM monitors while continuing to meet the CFR Collocation requirements
 - DEP – Baptist Children's Home
 - DEP – Seminole Community College
 - DEP – Winkler Pump Station
 - Pinellas County – Azalea Park
 - Sarasota County – Bee Ridge Park
- o Decreasing PM_{2.5} FRM operating schedules in 2018
 - Primary: Daily to 1 in 3-day
 - Collocated: 1 in 6-day to 1 in 12-day



Major PQAO Network Changes

❑ Manual and Continuous PM₁₀ Network:

- o Reduction of the manual PM₁₀ FRM network
 - Monitor closures
 - Pinellas County – John Chesnut Sr. Park - East Lake
 - Pinellas County – Azalea Park
- o TEOM PM₁₀ Monitor Assignment Conversions
 - Continuous PM₁₀ monitors not configured as an FEM will be converted from a SLAMS to SPM monitor in AQS.
 - City of Jacksonville – Kooker Park
 - City of Jacksonville – Rosselle
 - DEP – Baptist Children's Home
 - DEP – Seminole Community College
 - DEP – Fort Walton Beach
 - DEP – Winkler Pump Station
 - DEP – Palatka Barge Port
 - DEP – Daytona – Blind Services
 - Hillsborough – Davis Island



Siting Criteria Waivers

□ 2016-2017 Annual Network Plan Siting Waiver Requests:

- o DEP – Baptist Children’s Home
- o DEP – Osceola Co. Fire Station
- o DEP – Port Orange
- o Hillsborough County – Davis Island
- o Pinellas County – Woodlawn



Network Plan is posted on Florida DEP’s website: http://www.dep.state.fl.us/air/air_quality/reports.htm



Network Modification Reminders

- ❑ DEP should be notified of **all** proposed network changes prior to implementation.
- ❑ Major network changes require approval from DEP and EPA Region 4.

Require Formal Approval

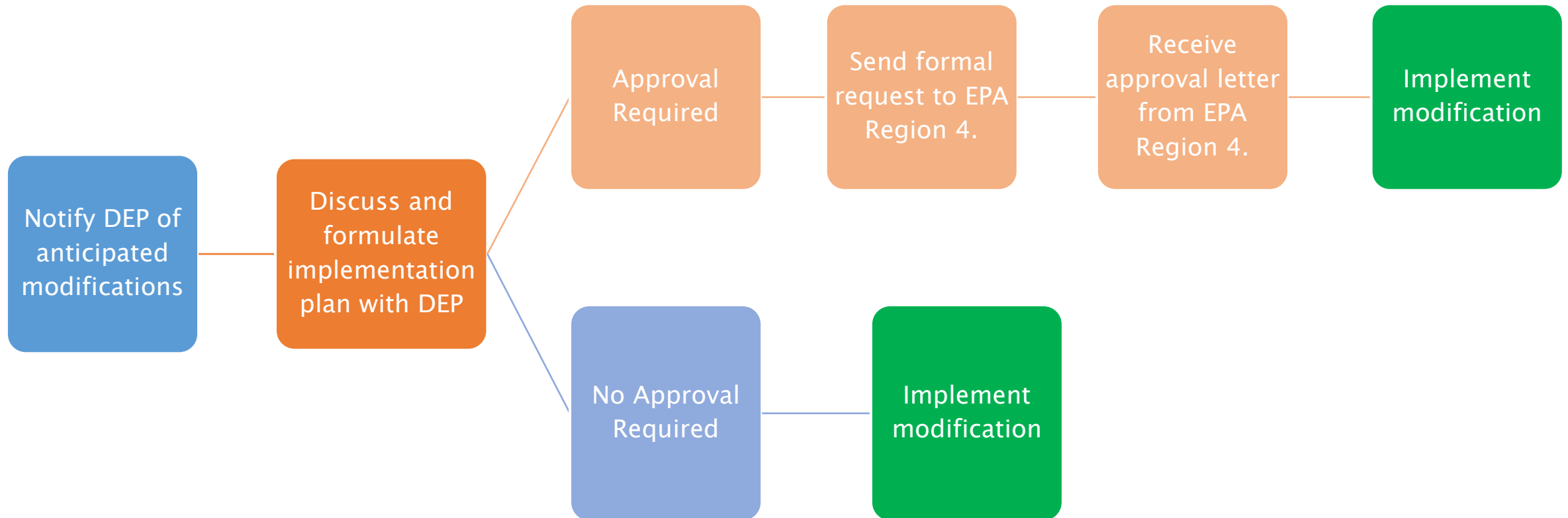
- o Setting up a new site or monitor
- o Shutting down a site or monitor
- o Relocating a site or monitor

Do Not Require Formal Approval

- o Rearranging a monitor within the existing site configuration
- o Instrument Changes
 - DEP should be notified of these changes to ensure the data codes are correct and collocation requirements are met.



Notification & Implementation Process





Site Set-ups

- ☐ Coordinate early with DEP and EPA Region 4
- ☐ Obtain EPA approval
- ☐ Evaluate collocation requirements
- ☐ Ensure siting criteria will be met
 - o 40 CFR 58 Appendix E
- ☐ Discuss monitor assignments





Site Shut-downs

- ☐ Coordinate early with DEP and EPA Region 4
- ☐ Obtain EPA approval
- ☐ Ensure network will continue to meet:
 - o Minimum monitoring requirements (40 CFR 58, Appendix D)
 - o SIP requirements (if applicable)
 - o System modification requirements (40 CFR 58.14)
 - Must meet all requirements for removal of a SLAMS monitor in Section 4.1 of the Ambient Air Monitoring Network Assessment Guidance.
- ☐ Ensure quality assurance activities are complete prior to shut-down of original site.
 - o Performance Audits
 - o Quality Control Checks
- ☐ Ensure that the monitor does **not** have the highest design value!



Site Relocations

- ☐ Coordinate early with DEP and EPA Region 4
- ☐ Obtain EPA approval
- ☐ Ensure minimal data loss
- ☐ Ensure quality assurance activities are complete prior to shut-down of original site.
- ☐ Request combined pollutant datasets.
 - o Parallel monitoring should be conducted, when possible, to assess comparability of old and new sites, if possible.



Instrument Changes

- ❑ The following should be evaluated prior to the installation of new or different instrumentation:
 - o Collocation requirements
 - o Determine where changes and updates are needed.
 - SOPs and forms
 - FAMAS and AQS
 - o Instrument performance issues
 - o The appropriate monitor type
 - SLAMS or SPM





Summary

- ☐ Communicate and work with DEP to discuss possible implications **before** you take action
- ☐ Ensure siting criteria will be met
- ☐ Ensure quality assurance activities are complete prior to shut-down of original site.





Questions?



Saphique Thomas
Email: oriene.thomas@dep.state.fl.us
Phone: 850-717-9015