May 2015

Annual Air Monitoring Network Plan

Florida Department of Environmental Protection

DEP OAM 15-001

Table of Contents

GLOSSARY OF AIR QUALITY TERMS **2**

GLOSSARY OF AIR QUALITY TERMS **2**

INTRODUCTION **4**

ACCOMPLISHMENTS OF THE LAST YEAR **6**

CHANGES FOR THIS YEAR **8**

GENERAL INFORMATION **10**

NETWORK DESIGN PRINCIPLES 10
NCORE 12
SO_2 MONITORING 12
NO_2 MONITORING 13
VULNERABLE AND SUSCEPTIBLE MONITORING 14
COMMUNITY-WIDE NO_2 MONITORING 15
NEAR ROAD NO_2 NETWORK 16

NETWORK DESCRIPTION AND REQUIREMENTS **23**

WAIVER RENEWAL REQUEST **37**

NEW WAIVER REQUEST **38**

NETWORK EQUIPMENT EVALUATION **43**

List of Figures

Figure 1. Site Locations for Florida's Ambient Air Monitoring Network 4
Figure 2. Florida Crude Rate of Asthma Hospitalization, 2009-2013 15
Figure 3. Additional Information for the Initial NO_2 Near Road Site for Fort Lauderdale 18
Figure 4. Additional Information for the Initial NO_2 Near Road Site for Orlando 19
Figure 5. Additional Information for the NO_2 Near Road Site for Miami 21
Figure 6. Additional Information for NO_2 Near Road Site in Largo (Pinellas County) 22
Figure 7. Results of FRM-Like Comparison for Met One BAM 1020 with 2014 Data 37
Figure 8. Woodlawn Site AQS# 12-103-0012 38
Figure 9. Pinellas County PM10 Concentrations 1992 - 2014 39
Figure 10. Google Earth Image at Last Site Review 40
Figure 11. Figure 11. Arial of Woodlawn Site Surrounding Area's Enhancements 41
Figure 12. Street View from Google Earth Showing Newly Planted Additional Trees 41
Figure 13. Facing East from Woodlawn Site 42

List of Tables

Table 1. Parameter Changes....6
Table 2. 2015/16 Anticipated Parameter Changes....9
Table 3. Changes to Monitoring Objective....9
Table 4. SO_2 Monitoring Requirements....13
Table 5. NO_2 Monitoring Required by 2010 NAAQS....14
Table 6. Community-wide Designated Monitors....15
Table 7. Initial NO_2 Near Road Sites for Fort Lauderdale and Orlando....17
Table 8. Initial NO_2 Near Road Sites for Miami and Largo....20

Glossary of Air Quality Terms

AADT	Annual Average Daily Travel
AQI	Air Quality Index – standardized EPA method of reporting air quality information and forecast to the public.
AQS	Air Quality System – EPA's repository of ambient air quality data.
BAM	Beta Attenuation Mass Monitor- a type of continuous $PM_{2.5}$ monitor.
CBSA	Core Based Statistical Area - a collective term for both [Metropolitan and micropolitan statistical areas] metro and micro areas.
CFR	Code of Federal Regulations
CO	Carbon monoxide – an odorless, colorless gaseous; one of the "Six Common Air Pollutants", also known as "Criteria Pollutants" and is regulated by the U.S. EPA.
FEM	Federal Equivalence Method (Method approved for comparison to NAAQS)
FRM	Federal Reference Method (Method approved for comparison to NAAQS)
MSA	Metropolitan Statistical Area- a "geographic entity defined by the U.S. Office of Management and Budget (OMB) for use by federal statistical agencies in collecting, tabulating, and publishing Federal statistics." An MSA consists of a core urban area of at least 50,000 people.
NCore	National Core multi-pollutant monitoring stations - a collection of monitors that integrates several advanced measurement systems for particles, pollutant gases and meteorology.
NAAQS	National Ambient Air Quality Standards - maximum threshold concentrations above which adverse health effects may occur. EPA established NAAQS for Criteria Pollutants based on the 1970 Clean Air Act.
NO	Nitrogen oxide
NO_2	Nitrogen dioxide - a by-product of incomplete combustion that is intimately involved in photochemistry and ozone formation, as well as acid rain formation.
NO_x	A measure of total oxides of nitrogen, consisting primarily of nitrogen dioxide (NO_2) and nitric oxide (NO).
NO_y	Total reactive nitrogen - a collective name for oxidized forms of nitrogen in the atmosphere, such as nitric oxide (NO), nitrogen dioxide (NO_2), nitric acid (HNO_3), and organic nitrates.
O_3	Ozone – a gaseous pollutant and a component of smog at ground level; one of the "Six Common Air Pollutants", also known as "Criteria Pollutants" and is regulated by the U.S. EPA.
PM	Particulate Matter – also known as particle pollution

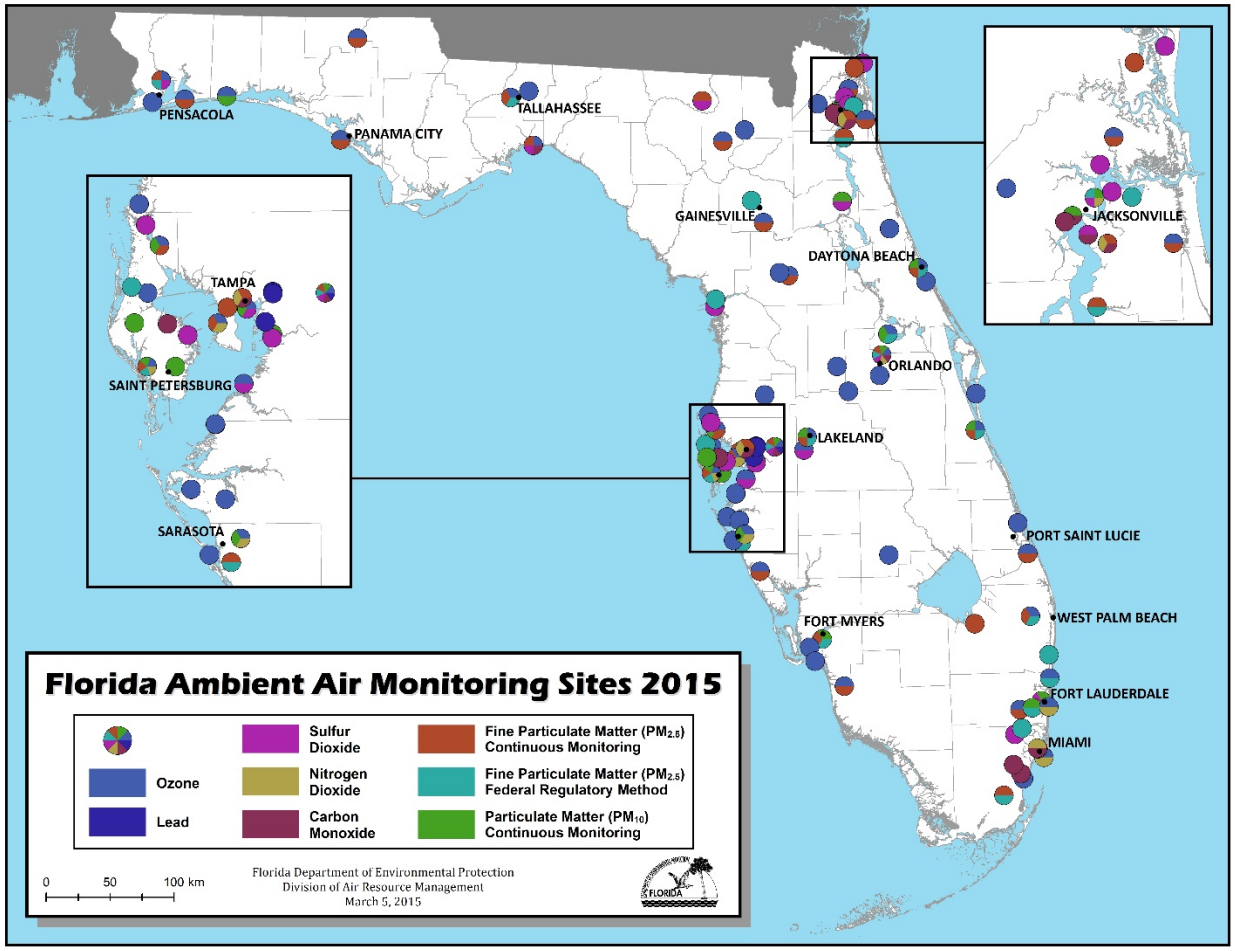
$PM_{2.5}$	Particulate Matter 2.5 micrometers in diameter and smaller
PM_{10}	Particulate Matter 10 micrometers in diameter and smaller
$PM_{10-2.5}$	The particle size between 10 and 2.5.
PWEI	Population Weighed Emissions Index
PSD	Prevention of Significant Deterioration
SIP	State Implementation Plan
SLAMS	State and Local Air Monitor Stations
SO_2	Sulfur dioxide
SPM	Special Purpose Monitors
STN	Speciation Trends Network

Introduction

The Florida Department of Environmental Protection (DEP) has created a robust and comprehensive air monitoring network that covers over 91% of the more than 19,800,000 people living in Florida, the third most populous state in the United States. The network is designed to provide the public with accurate air quality information, and currently meets or exceeds current federal air monitoring requirements.

The statewide ambient air monitoring network is comprised of over 220 monitors at 102 sites strategically positioned to measure air quality. As Figure 1 depicts, the ambient air monitoring sites are concentrated in areas of high population density: along the coasts and in the interior portion of the state near interstates. In addition, the DEP has established three rural monitoring sites to create representative sites for comparison to regional background levels of pollution; one in the panhandle, one in the northern area of the peninsula, and one in the southern area of the peninsula.

Figure 1. Site Locations for Florida's Ambient Air Monitoring Network



This Air Monitoring Network Plan is an annual report that is issued by the DEP. It is a requirement of the Code of Federal Regulations (40 CFR 58) that were established by the US Environmental Protection Agency (EPA). The purpose of this report is to provide evidence that Florida's air monitoring network meets current regulations, to detail any changes proposed for the 18 months following its publication, and to provide specific information on each of the state's existing and proposed monitoring sites. The federal regulations require that the plan be posted for public comment 30 days prior to submission to the EPA Regional Office. The plan was made available to the public on the DEP website for the 30-day comment period.

Accomplishments of the Last Year

Accomplishments over the last year include the following:

- The Hillsborough County Near Road NO_2 Monitoring Site (AQS site # 12-057-1111) was established adjacent to an elevated portion of Interstate 275 and began operation in February of 2014. In the last year, the $PM_{2.5}$, the black carbon, and the ultrafine particle monitors began operating, in addition to the required NO_2 and trace level CO already in operation. The ultrafine particle monitor is the first of its kind to run in the state.
- The Hillsborough County National Core (NCore) Site (AQS site #12-057-3002) $PM_{2.5}$ monitor began running a ThermoEnvironmental Instruments (TEI) 5014i collocated with the TEI 2025i. One of the roadside sites in each population center with more than a million people must report $PM_{2.5}$ concentrations. The County agreed to run a Federal Equivalent Method (FEM) instrument and chose the continuous TEI 5014i $PM_{2.5}$. Each FEM method must have the first site collocated with a Federal Reference Method monitor to meet the collocation requirements.
- The Broward County relocated NCore Monitoring Site (AQS site # 011-0034) began operating particulate samplers in January and February 2015.
- The DEP NCore Site at St. Marks Wildlife Refuge (AQS site # 12-129-000) continues to monitor ozone. Continuous $PM_{2.5}$, SO_2 and CO were added in January, February and April respectively. A trace level NO_y monitor will be added in the spring of 2015. The new shelter and equipment from EPA for this rural NCore arrived from EPA in the past year.

Table 1 provides a summary of the site parameter changes since the last plan submission.

Table 1. Parameter Changes

AQS Site #	Name	Parameter	Change
12-011-0034	Daniela Banu	$PM_{2.5}$, $PM_{2.5}$ Speciation, $PM_{2.5}$ Continuous, Toxics	Addition; January and February 2015
12-031-0108	Pepsi Place	NO_2, CO, $PM_{2.5}$	Addition: NO_2 & CO - January 2014 $PM_{2.5}$ - February 2014
12-057-1111	Julian B Park	NO_2, CO, $PM_{2.5}$, Black Carbon, Ultra Fine Particles	Addition: NO_2 & CO - January 2014 $PM_{2.5}$, Black Carbon, Ultra Fine Particles - January 2015
12-099-0021	Lantana Preserve	O_3, NO_2, PM_{10}	Added February 2015
12-103-0026	Skyview	$PM_{2.5}$ Speciation	Deletion
12-129-001	St. Marks Wildlife Refuge	O_3, Added: $PM_{2.5}$, SO_2, CO	Addition: $PM_{2.5}$ – January 2015 SO_2 – February 2015 CO – April 2015

In the last several years, the DEP and the local programs have made extensive investments in Florida's Air Monitoring Network. The DEP alone has invested over 1.5 million dollars in equipment and site improvements. These upgrades and enhancements have been implemented to take advantage of advanced diagnostics, automation features, and wireless and digital communication for greater operational efficiency. These equipment upgrades are reflected in the "Network Description and Requirements" section and the "Network Equipment Evaluation" section of the plan. The following are major equipment purchases and upgrades accomplished during the last 12 months:

- DEP purchased three Teledyne Model T750U calibrators for use in conducting quality assurance performance audits.
- DEP purchased one Agilaire 8872 data logger and one Teledyne 700U dilution calibrator to support NCore operations.
- DEP purchased five TEI 2025i instruments to replace the older 2025 instruments. Deployment of these newer FRM $PM_{2.5}$ samplers is underway.
- Shelter upgrades were made at three sites: AQS site # 12-031-0018, 12-095-0008, and 12-129-0001.
- Orange County upgraded PM_{10} technology from a manual sampler to a continuous 5014i.
- Broward County upgraded one of their manual PM_{10} samplers to a continuous Met One 1020.

Changes for This Year

The majority of changes in the monitoring plan this year are again in response to the NO_2 near road monitoring requirements and the NCore monitoring requirements.

Broward County is establishing a near road NO_2 monitoring site, AQS site # 12-011-0035, in Ft. Lauderdale. In order to meet federal monitoring requirements, this site will monitor trace level CO and $PM_{2.5}$. Additionally, this site will monitor black carbon particles as well as detect and measure ultrafine particles. The NCore site for Broward County had to be moved due to the impact of construction of a waste water treatment facility near the site. The replacement NCore site is in Davie. Manual particulate monitors are operational at the site. The NCore site will also monitor trace level CO, trace level SO_2, and NO_y. The requirement to conduct lead (Pb) monitoring at NCore sites has been proposed by EPA to be removed as part of the changes to 40 CFR Part 58 in the Monitoring Rule. The federal rule is expected to be promulgated this summer. If it is promulgated as it was proposed, there will be no lead monitoring requirement for this site. If that part of the rule changes, the filters collected starting in March of 2015 will be analyzed for Pb.

Hillsborough County intends to add an additional Pb site near one of the county's large lead emitting facilities. The county will also be adding an SO_2 and $PM_{2.5}$ site in the Apollo Beach Community when a suitable location is secured to address community concerns.

The City of Jacksonville anticipates introducing Pb monitoring, though not required, near the largest lead emitter for the county.

Orange County will be installing their near road NO_2 site along Interstate 4 near the State Road 408 exchange in Orlando. This site will also include CO and $PM_{2.5}$ monitors to meet monitoring requirements. The county was granted a year's extension to establish this site to accommodate working with the Florida Department of Transportation as plans to widen Interstate 4 throughout the entire county are put in place. They are still experiencing delays and are negotiating for another extension since the site is not expected to be operational until the end of 2016.

Miami-Dade County and Pinellas County are both in the process of establishing second near road NO_2 sites in Metropolitan Statistical Areas with over 2.5 million people. The Miami-Dade site should be operational by the end of 2015. The Pinellas County site is expected to be operational by October 2015.

Miami-Dade County is evaluating the safety of the Homestead PM2.5 site, AQS # 12-086-6001. It is located on the rooftop of the fire station. If it is found to be no longer safe, a new site will be sought.

Pinellas County has requested a waiver from siting requirements for the Woodlawn site, AQS 12-103-0012,. It is a historic site and the only monitoring site in St. Petersburg.

Palm Beach County will relocate their Royal Palm Beach site, AQS site # 12-099-0009, due to sale of the property to a new owner. A potential site has been identified and is being pursued.

Other changes for the coming year are shelter upgrades for the following sites:

- AQS site # 12-086-0031
- AQS site # 12-011-2003
- AQS site # 12-011-8002

Table 2 presents the anticipated site parameter changes for the next 18 months.

Table 2. 2015/16 Anticipated Parameter Changes

AQS Site #	Name	Parameters	Planned Change
12-086-XXXX	Miami (city)	Near road NO_2	Addition
12-103-XXXX	Largo (city)	Near road NO_2	Addition
12-095-0009	Orlando	Near road NO_2	Addition
12-011-0034	Daniela Banu	NO_y, CO TL, SO_2 TL, $PM_{2.5}$ Cont.	Addition
12-129-0001	St Marks	NO_y	Addition
12-057-XXXX	Apollo Beach (city)	SO_2, $PM_{2.5}$	Addition
12-057-XXXX	Tampa (city)	Lead	Addition
12-031-XXXX	Jacksonville (city)	Lead	Addition
12-011-1002	UF Agricultural Research	$PM_{2.5}$ Cont.	Deletion
12-099-0009	Royal Palm	Ozone and $PM_{2.5}$	Deletion
12-099-XXXX	Lamstein Lane	Ozone and $PM_{2.5}$	Addition (Replacement)

To align the $PM_{2.5}$ and ozone networks with the monitoring requirements outlined in the Code of Federal Regulations (Part 58, Appendix D), the Monitoring Objective of the sites listed in Table 3 were changed from Population Exposure to High Concentration.

Table 3. Changes to Monitoring Objective

AQS Site #	Name	Pollutant	Change to Monitor Objective
12-011-2003	Pompano Beach	$PM_{2.5}$	Population Exposure to High Conc.
12-086-1016	Miami Fire Station	$PM_{2.5}$	Population Exposure to High Conc.
12-099-2005	Congress Ave	$PM_{2.5}$	Population Exposure to High Conc.
12-057-3002	Sydney	$PM_{2.5}$	Population Exposure to High Conc.
12-103-1009	Sandy Lane	$PM_{2.5}$	Population Exposure to High Conc.
12-117-1002	Sanford	$PM_{2.5}$	Population Exposure to High Conc.
12-031-0032	Kooker Park	$PM_{2.5}$	Population Exposure to High Conc.
12-115-0013	Bee Ridge	$PM_{2.5}$	Population Exposure to High Conc.
12-071-0005	Fort Myers Water Treatment Plant	$PM_{2.5}$	Population Exposure to High Conc.
12-009-0007	Melbourne	$PM_{2.5}$	Population Exposure to High Conc.
12-033-0004	Ellyson	$PM_{2.5}$	Population Exposure to High Conc.
12-073-0012	Tallahassee Community College	$PM_{2.5}$	Population Exposure to High Conc.
12-017-0005	Crystal River	$PM_{2.5}$	Population Exposure to High Conc.
12-099-0009	Royal Palm Beach	Ozone	Population Exposure to High Conc.
12-095-0008	Winegard	Ozone	Population Exposure to High Conc.
12-031-0100	Mayo Clinic	Ozone	Population Exposure to High Conc.
12-111-0013	Savannas	Ozone	Population Exposure to High Conc.
12-091-0002	Fort Walton Beach	Ozone	Population Exposure to High Conc.

General Information

There are many influences on the design of air monitoring networks. The two largest drivers that change over time are federal requirements and continuing population growth in the state. These and other considerations are listed below in the design principles. Other information specified by the federal regulations is also contained in this section.

Network Design Principles

The DEP has kept the current network design which includes all of the current State and Local Air Monitor Stations (SLAMS) and Special Purpose Monitors (SPM) monitoring sites posted on its web site for the last several years. The principles that guide network design for the DEP are:

1) Sites meet the Code of Federal Regulations (CFR) for number, type and placement of monitors.
2) Attention will be paid to historic areas of exceedances or violations where the contributing industry or population has been maintained.
3) There will be sufficient ozone and fine particle pollution monitors to maintain the Air Quality Index (AQI) reporting to large (350,000+ population) communities.
4) During network design, weight will be given to monitors that have long historical records.
5) Sites will be established with the intent for indefinite monitoring, with an expectation of at least five years.
6) Partnerships with private entities will be used judiciously.
7) Any monitoring required by State Implementation Plans (SIP) will continue.
8) Coordination with the local programs will be maintained to achieve a quality state-wide network since much of the monitoring in Florida is conducted in counties operated by local programs.

The details of the network are in the "Network Description and Requirements" section of the plan. The network description is organized first by the largest Metropolitan Statistical Areas followed by the monitoring of areas not within a Metropolitan Statistical Areas. There are nine county agencies which assist the DEP in the operation of the statewide air monitoring network in their respective counties. Each county agency's Metropolitan Statistical Areas or Micropolitan Statistical Area are identified. In several cases, more than one agency operates within the boundaries of the Metropolitan Statistical Areas, so the Area name may be repeated for each agency with responsibility for monitoring within its boundaries. The requirements for the network are listed last. The requirements for the minimum number of monitoring sites are dependent on both the population, which is listed, and population concentration in the case of ozone, $PM_{2.5}$ and PM_{10}. The recently calculated Population Weighted Emission Index (PWEI) is listed for any areas with a PWEI over 5,000 where sulfur dioxide (SO_2) will be required to be monitored.

The AQI is reported and updated hourly on the Florida Department of Environmental Protection's website at: http://www.dep.state.fl.us/air/airquality.htm. It is available in both graphical and text versions. The data to support this website are collected from all the continuous monitors in the state. These data are also shared on EPA's AIRNOW site, available at: http://airnow.gov/.

An Air Monitoring Network Plan is required to provide evidence that siting and operation of each monitor meets the requirements of Appendices A, C, D and E of 40 CFR, Part 58. Appendix A covers quality assurance requirements for SLAMS, SPMs and Prevention of Significant Deterioration (PSD) air monitoring. These requirements are met with three basic functions of the air monitoring community.

- The first requirement is to have approved standard operating procedures (SOP), Quality Management Plan (QMP) and Quality Assurance Project Plans (QAPP), which are in place and updated as needed. The most recent QAPP was approved April 2007 for all the gaseous pollutants and an updated QAPP was submitted to EPA in April 2014. The $PM_{2.5}$ QAPP was approved July 2011 and is currently under revision. The current Quality Management Plan was approved December 2014.
- The second requirement is auditing of instrument performance and management systems. DEP Quality Assurance staff complete these activities for all agencies throughout the state.
- The third requirement is the compiling of precision and bias records sent to EPA's Air Quality System (AQS) database quarterly. The $PM_{2.5}$ collocation specifications are met by each agency operating a FRM $PM_{2.5}$ running at least one collocated FRM with six additional FRM $PM_{2.5}$ .collocated sites within DEP. The total number of collocated FRM $PM_{2.5}$ instruments is sixteen, more than the requisite 15% of the twenty-six FRMs in operation. All FRMs in Florida are TEI (formally, R&P) 2025's or 2025i's. The collocation requirement for five $PM_{2.5}$ FEMs is addressed with a $PM_{2.5}$ FRM/FEM collocation at Sydney (AQS Site # 12-057-3002). The FEM is a TEI 5014i. The requirements of 40 CFR Part 58, Appendix A are met by a combination of all of these activities. There is a waiver request following the Network Description and Requirements section to maintain the FEM Met One BAM 1020's operating in Palm Beach County as Non-regulatory monitors since they do not meet the required FRM-like statistics defined for an FEM.

Appendix C describes general instrument requirements. Florida's monitoring network is comprised of both federally and non-federally approved instrumentation. However, only data from the federally approved instrumentation are used for designations. Additionally, all instrumentation are subjected to the same quality assurance and quality control requirements as those used for designations. The instruments are described in detail in the network plan.

Appendix D contains monitor siting requirements. Sites within the air monitoring network are established using these requirements. In order to assure that these requirements continue to be met, the sites are reviewed annually by DEP audit staff. The results of these reviews are used to determine if the sites meet the siting requirements. Any discrepancies are dealt with, at minimum, on an annual basis, when siting reviews are assessed.

Additional information about network design can be found in Chapter 1 of the Annual Air Report available at: http://www.dep.state.fl.us/Air/publications/techrpt/amr.htm

NCore

The NCore program is designed around approximately 80 sites nationwide. The intent of the NCore sites is to have a network made of largely population oriented sites and some rural sites that take advantage of multi-pollutant monitoring. Details of the NCore network are provided on EPA's website at http://www.epa.gov/ttn/amtic/ncore/index.html.

Florida currently operates three NCore monitoring sites. Florida is required to have at least two sites for NCore monitoring. However, the EPA felt that the original NCore network design left a void in the coverage for the southeast and requested DEP to also operate a rural NCore site at the St. Marks National Wildlife Refuge. This site takes advantage of the already present Interagency Monitoring of Protected Visual Environments (IMPROVE) monitoring for particulate and the DEP ozone site. DEP agreed to operate the site with the understanding that EPA would provide the additional instrumentation.

Building on the Speciation Trends Network (STN), EPA favored two sites in the largest Metropolitan Statistical Areas in the state, the Miami-Fort Lauderdale-Miami Beach area with more than 5 million in population and the Tampa-St. Petersburg-Clearwater area with over 2 million in population. The site in the Miami-Fort Lauderdale-Miami Beach area was relocated due to the construction plans for a source that would influence the site. The replacement site for the Miami-Fort Lauderdale-Miami Beach area is AQS site #12-011-0034 is in Davie, operated by Broward County. The manual particulate is currently operational and the gas analyzers for trace level SO_2, trace level CO and NO_y should be operational in the spring of 2015.

In the Tampa Bay area, the NCore site is Sydney (AQS site # 12-057-3002), operated by Hillsborough County. It was the site of a large and intense nitrogen deposition study, the Bay Regional Atmospheric Chemistry Experiment (BRACE). It has also been running trace SO_2, CO and NO_y monitoring since 2004. Since the primary use of the NCore sites is air quality trends analysis, and Sydney is not in a built out portion of the county, its location makes it ideal for tracking trends which reflect the addition of population, as Florida is a fast growing state.

SO_2 Monitoring

The network is in compliance with the current SO_2 monitoring requirements. Ambient monitoring is required for Core Based Statistical Areas (CBSAs) whose PWEI was above 5,000. A single monitor is required when the PWEI is above 5,000 and two monitors are required when the PWEI is above 100,000 with a unit of million persons-tons per year. The PWEI values listed in Table 4 were provided by the US EPA.

Table 4. SO_2 Monitoring Requirements

CBSA Statistical Areas	2014 Census Population	PWEI 2012 NEI	PWEI SO_2 Needed	SO_2 Monitors in Place
Miami-Fort Lauderdale-Pompano Beach	5,929,819	147,762	2	3
Broward County	1,869,235			
Miami-Dade County	2,662,874			
Palm Beach County	1,397,710			
Tampa-St. Petersburg-Clearwater	2,915,582	94,280	2	7
Orlando-Kissimmee-Sanford	2,321,418	13,157	1	1
Jacksonville	1,419,127	32,408	1	5
North Port-Bradenton-Sarasota	728,708	5,030	1	1
Lakeland	616,158	10,666	1	1
Palm Bay-Melbourne-Titusville	556,885	3,003		
Cape Coral-Fort Myers	679,513	770		
Deltona-Daytona Beach-Ormond Beach	609,939	243		
Pensacola-Ferry Pass-Brent	474,081	13,122	1	1
Port St. Lucie-Fort Pierce	444,420	3,780		
Homosassa Springs	139,377	9,456	1	1

There are no plans at this time to increase SO_2 monitoring in response to the SO_2 Data Requirements Rule. Final decisions regarding the implementation will be made after the promulgation of the rule and initial modeling of affected SO_2 sources.

NO_2 Monitoring

There are three federal requirements for NO_2 monitoring: (a) monitoring of vulnerable and susceptible populations, (b) community-wide monitoring for areas with a population over 1 million, and (c) near road monitoring for areas with populations over 500,000 that will be phased in over time according to the NO_2 monitoring requirements. The areas with population over 1 million were due to have their sites operational by January 1, 2014. In Florida, those areas are Tampa, Fort Lauderdale, Jacksonville and Orlando. Tampa and Jacksonville's sites are operational. After receiving an extension, Fort Lauderdale's site will be operational this spring. Orange County has been given a year's extension for the Orlando monitoring site to accommodate working with Florida's Department of Transportation as they begin a road widening project for 1nterstate 4. A summary of these requirements is in Table 5.

Table 5. NO_2 Monitoring Required by 2010 NAAQS

CBSAs with Population over 500,000	Population Estimate (2014)	AADT ≥250,000	Required Near road Monitors	Required Community Wide Monitor	Vulnerable and Susceptible	Total
North Port-Bradenton-Sarasota	748,708		1*			1
Cape Coral-Fort Myers	679,513		1*			1
Jacksonville	1,419,127		1	1		2
Lakeland-Winter Haven	634,638		1*			1
Miami-Fort Lauderdale-Pompano Beach	5,929,819	√	2	1	1	4
Orlando-Kissimmee	2,321,418		1	1		2
Palm Bay-Melbourne-Titusville	556,885		1*			1
Tampa-St. Petersburg-Clearwater	2,915,5823		2	1		3
Deltona-Daytona Beach-Ormond Beach	609,939		1*			1
Total						16

* Due Jan. 2017

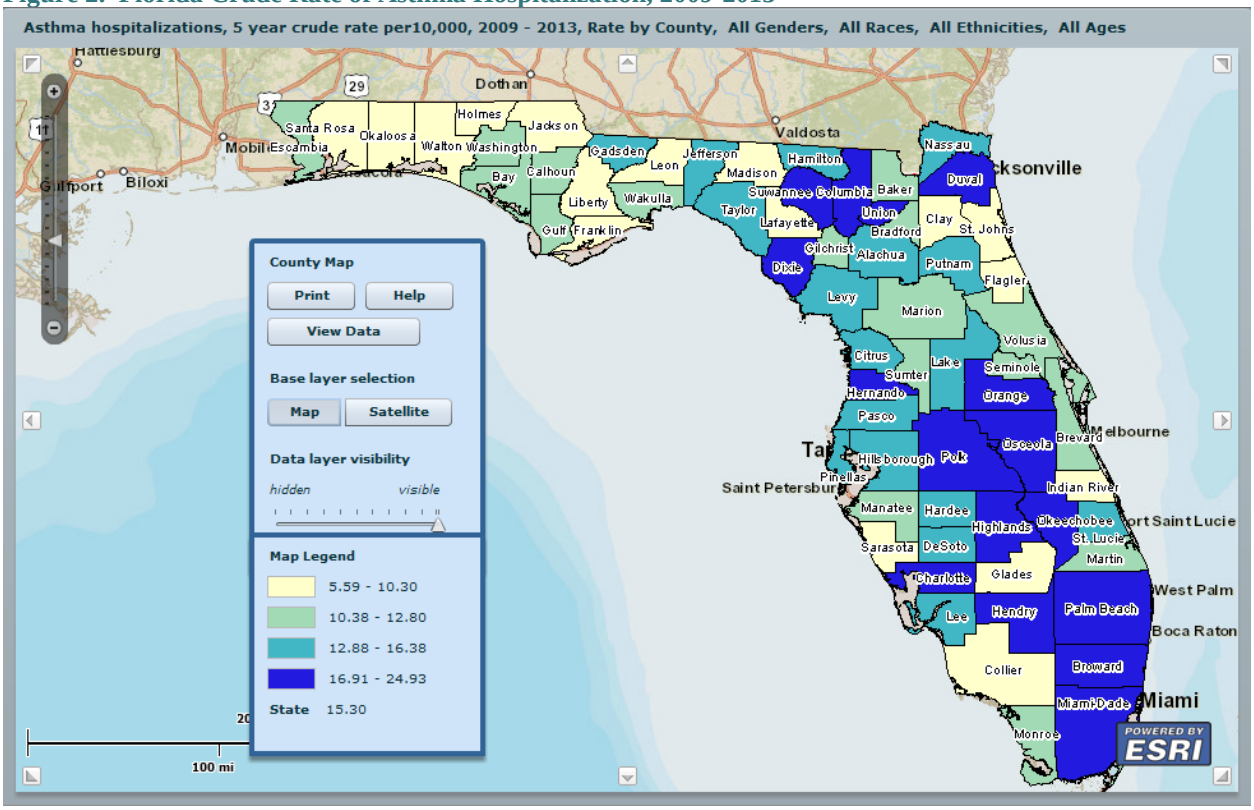
Note: *Population >2.5 million requires 2 near road*

Vulnerable and Susceptible Monitoring

The 2010 NO_2 NAAQS update included monitoring requirements for vulnerable and susceptible populations. Vulnerable populations are those exposed to higher concentrations of NO_2, such as people living and working near the high traffic volume highways that will be monitored with the near road network. Susceptible populations are affected by lower levels of NO_2 than the general population or because they experience a larger health impact than the general population to a given level of exposure. According to the EPA Integrated Science Assessment for Oxides of Nitrogen-Health Criteria, factors that can confer susceptibility include pre-existing disease (e.g. asthma).

Florida participates in the National Environmental Public Health Tracking Network supported by the U.S. Center for Disease Control. That program examines health and environmental data to help federal, state and local agencies plan, apply and develop environmental public health actions. The higher crude rate of asthma hospitalizations has been used as an indicator of vulnerable and susceptible communities in Florida. Miami-Dade County's NO_2 site, located at the University of Miami, Rosenstiel (AQS site # 12-086-0027), has been designated as a vulnerable and susceptible monitoring site for NO_2. Figure 2 provides Florida's crude rate of asthma hospitalization by county.

Figure 2. Florida Crude Rate of Asthma Hospitalization, 2009-2013



Community-wide NO_2 Monitoring

Community-wide NO_2 monitoring sites are required in each CBSA of 1 million people or more. There are four such CBSAs in Florida. Table 6 provides the community-wide designated monitors in these areas.

Table 6. Community-wide Designated Monitors

CBSA Name	County	Site Name	NO_2 AQS Site Number
Jacksonville	Duval	Kooker Park	12-031-0032
Miami-Fort Lauderdale-Miami Beach	Broward	John U Lloyd State Park	12-011-8002
Orlando	Orange	Winter Park	12-095-2002
Tampa-St. Petersburg-Clearwater	Pinellas	Azalea Park	12-103-0018

Near Road NO_2 Network

Two of Florida's counties with CBSAs of over 2.5 million people, Miami-Fort Lauderdale-Miami Beach and Tampa-St. Petersburg-Clearwater, participated in the pilot work for the near road NO_2 network. The development of the location of the initial sites in each area was made in tandem with the creation of the Technical Assistance Document (TAD), developed by EPA to aid states and local monitoring agencies in the implementation of required near road NO_2 monitoring stations. These areas are both monitored by local governments, the Environmental Protection & Growth Management, Pollution Prevention, Remediation and Air Quality Division in Fort Lauderdale and the Environmental Protection Commission of Hillsborough County in Tampa. Table 7 contains the site and monitor specific information for the anticipated Miami-Fort Lauderdale-Miami Beach area site.

Additionally, the CBSAs with a population over 1 million people were due to have their near road sites operational by January 1, 2014. Those areas are Jacksonville and Orlando. These areas are both monitored by local governments, City of Jacksonville Environmental Division Air Branch in Jacksonville and Orange County Environmental Protection Division in Orlando. They have worked through the TAD to determine the appropriate location of the monitoring sites. Table 7 contains the site and monitor specific information for the anticipated Orlando area site. Due to a construction project to widen Interstate 4 for the length of Orange County, the installation of the near road NO_2 monitoring site has been delayed with an anticipated start date of December 2016.

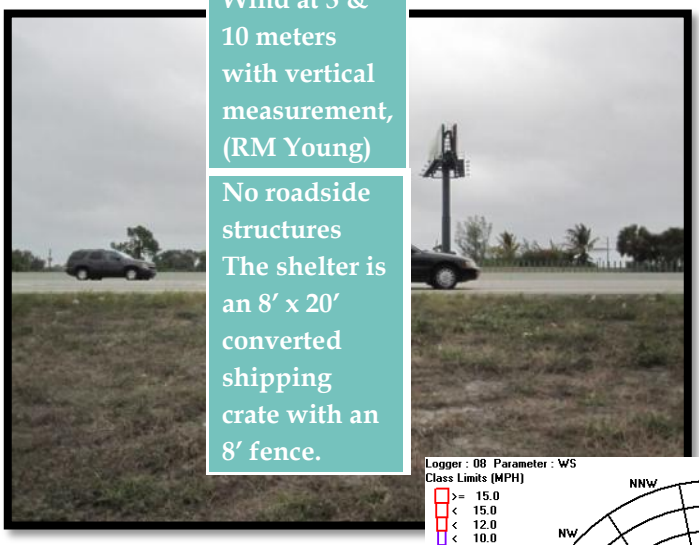
For the CBSAs with over 2.5 million people, a second near road NO_2 monitoring site is also required. There are two areas in Florida that fall into this category, Miami–Fort Lauderdale–West Palm Beach and Tampa–St. Petersburg-Clearwater. These sites are expected to be operational December 2015 and October 2015 respectively. Miami-Dade County Permitting, Environment and Regulatory Affairs Air Quality Management Division and Pinellas County Air Quality Division, respectively, will be responsible for operating these monitoring sites. The agencies are following the design in the TAD while working with DEP and OAQPS to locate an acceptable site. The focus of the second site in these large CBSAs is to site the monitor in a way not to replicate the concentration profile of the first monitor in the area. Miami-Dade County is considering locating near the Miami International Airport. Pinellas County will be monitoring a level section of Interstate 75 in contrast to the elevated section being monitored by Hillsborough County Environmental Protection Commission, expected to be operational in October 2015. The available details are summarized in Table 8.

Table 7. Initial NO_2 Near Road Sites for Fort Lauderdale and Orlando

AQS Site #	12-011-0035	12-095-0009
City (CBSA)	Fort Lauderdale	Orlando
Site Name	Sunrise Blvd	I-4
Location Latitude	26.132389	28.534646 N
Location Longitude	-80.169806	81.384411 W
Address	Southbound I-95 just south of Sunrise Blvd	525 South Division Ave Deland
Target	I-95 and Sunrise Blvd on the west side of I-95	Bridge No-750014
AADT	306,000	195,773
Heavy Duty AADT	35,129	12,921
FEAADT	622,161	312,062
NO_2	Photolytic	Chemiluminescent TEI-42i
Objective	Mobile	Mobile
Spatial Scale	Micro	Micro
Operating Schedule	Continuous	Continuous
Access	30 meters to the lane	49.5 meters currently, but in the next few years, with road widening, it will be 15 meters from the Division Avenue location
Owner of Land	Florida Department of Transportation	Florida Department of Transportation
Other Monitored Parameters	Trace CO, (TEI)	CO
	Continuous $PM_{2.5}$ FEM TEI 5014i	Continuous $PM_{2.5}$ FEM TEI 5014i
	Ultra-fine Particle Counter, (TSI, Incorporated)	Wind at 3 & 10 meters with vertical measurement
	Black Carbon Aethelometer, (Teledyne -API)	
	Wind at 3 & 10 meters with vertical measurement, (RM Young)	
	No roadside structures	
	The shelter is an 8’ x 20’ converted shipping crate with an 8’ fence.	

Figure 3. Additional Information for the Initial NO_2 Near Road Site for Fort Lauderdale

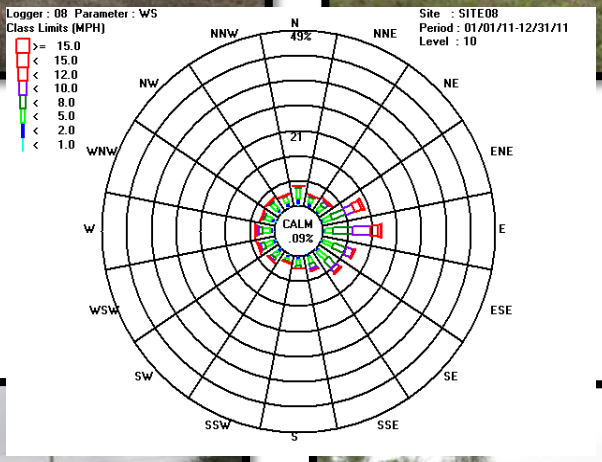
Looking North



Wind at 3 & 10 meters with vertical measurement, (RM Young)

No roadside structures The shelter is an 8′ x 20′ converted shipping crate with an 8′ fence.

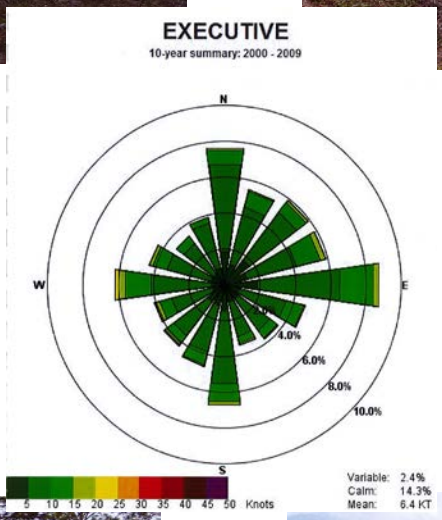
Looking East



Looking South

Looking West

Figure 4. Additional Information for the Initial NO_2 Near Road Site for Orlando



Looking South

Looking West

Table 8. Initial NO_2 Near Road Sites for Miami and Largo

AQS Number	12-086-0035	12-103-0027
City (CBSA)	Miami	Largo
Site Name	Perimeter Road	Sawgrass Lake Parkway
Location Latitude	25.785466	27.83440925
Location Longitude	-80.284325	-82.66325125
Address	1395 NW 57th Avenue	7400 25th Street North
Target	Bridge No. 870135 to Bridge number 870138 (FDOT site #872198)	I-275, south of Gandy Blvd. and north of 62nd Ave. North
AADT	197,000	141,000
Heavy Duty AADT	58,035	91,650
FEAADT	248,534	223,485
NO_2	Chemiluminescent TEI-42i	T500U Direct Measure
Objective	Source	Source
Spatial Scale	Mobile	Mobile
Operating Schedule	Micro	Micro
Access	23.7 m to traffic lane	25.9 m to traffic lane
Owner of Land	FDOT-MDX	SWFMD and Pinellas County
Other Monitored Parameters	Trace CO, (TEI-48i)	CO, Black Carbon

Figure 5. Additional Information for the NO_2 Near Road Site for Miami

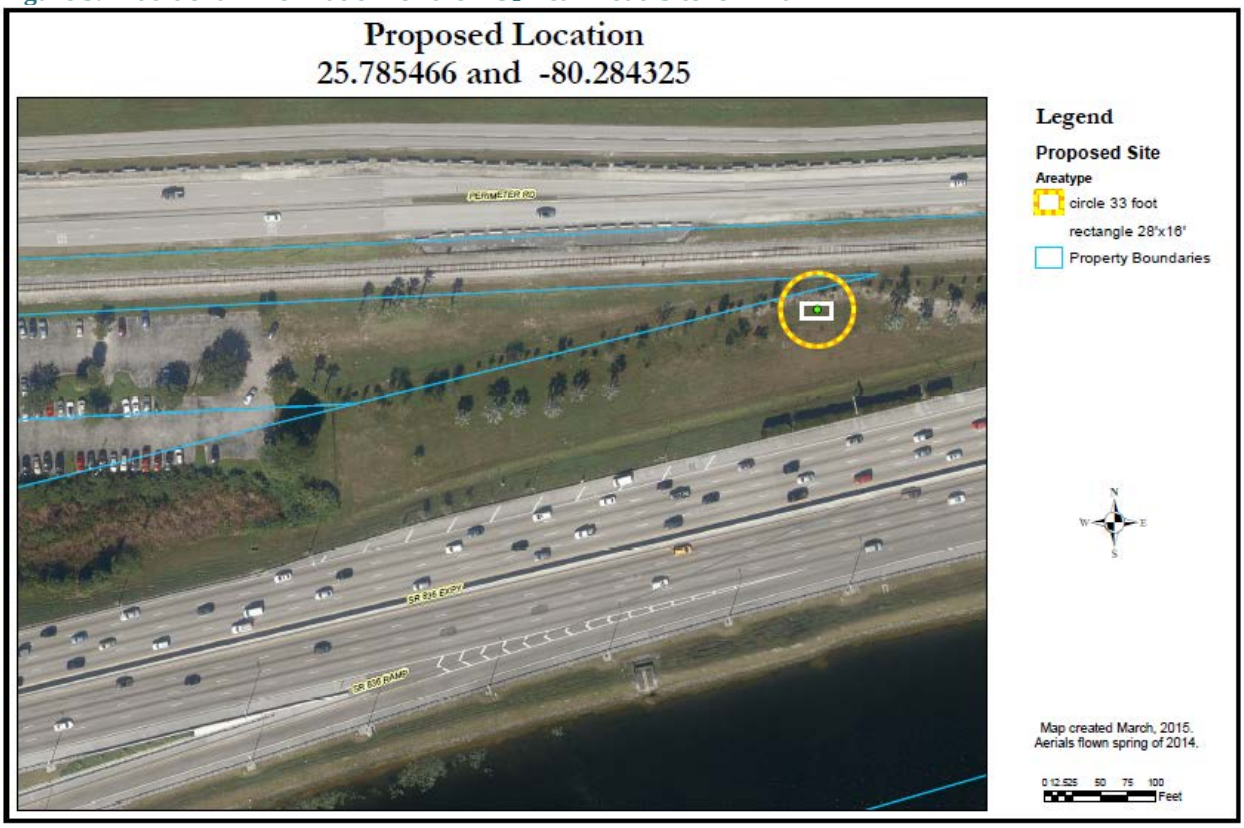


Figure 6. Additional Information for NO_2 Near Road Site in Largo (Pinellas County)

Pinellas County Near Road Site (November 12, 2014) – the two red circles on the above photo were originally proposed as potential near road sites. The blue circle on the photo was recently identified as the new proposed site. The new proposed site is a superior site as it offers easier accessibility, less environmental impact, shorter distance to available power (500 feet vs. 1000 feet), and has no public access.

Network Description and Requirements

The ambient air monitoring network with the changes expected by the close of 2016 is described below. It is followed by the requirements of the network.

METROPOLITAN STATISTICAL AREA: MIAMI - FT LAUDERDALE - MIAMI BEACH (BROWARD, MIAMI-DADE AND PALM BEACH COUNTIES)

Broward County

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
011-0010	600 NW 19 AVENUE	SLAMS	SO_2	TAPI T100	SOURCE	NBH	CONTINUOUS	SOURCE MONITORING	CRITICAL	SU 5/1/92 VOCATIONAL TRAINING (#28)
	26.131944,-80.166667	SLAMS	CO	TAPI T300	HI CONC	NBH	CONTINUOUS	TO MONITOR TRENDS	CRITICAL	SU 1/1/92 SLAMS 4/27/92
		SLAMS	PM_{10}	MET ONE 1020	POPULATION	NBH	CONTINUOUS	TO MONITOR TRENDS	CRITICAL	SU 7/01/2014
		NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	NA	SU 11/21/09
011-0033	4001 SW 142nd Ave, Davie	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 1/09
	26.073056,-80.338889	SPM	$PM_{2.5}$	R & P1400A	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING	CRITICAL	VISTA VIEW PARK
011-0034	PINE ISLAND ROAD PARCEL	PROP NCORE	PM_{10}	TISCH	POPULATION	URBAN	1/6 DAY	NEEDED BY REGULATION	CRITICAL	SU 2/1/2015, Daniela Banu
	26.054047, -80.257608	PROP NCORE	$PM_{2.5}$	R&P 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CRITICAL	SU 1/1/2015
	PINE ISLAND ROAD	PROP NCORE	PM_{10}	R&P 2025	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CRITICAL	SU 3/1/2015
	SOUTH OF SW 57th ST, DAVIE	PROP NCORE	SO_2	TECO 43CTL	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 7/1/2015
		PROP NCORE	CO	TECO 48CTL	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 7/1/2015
		PROP NCORE	NO_Y	TECO NOY	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 7/1/2015
		PROP NCORE	Pb	R&P 2025	POPULATION	NBH	1/6 DAY	NEEDED BY REGULATION	CRITICAL	SU 3/1/2015 if needed
		PROP NCORE	OZONE	TECO49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 7/1/2015
		PROP NCORE	$PM_{2.5}$	TEI 5014i	POPULATION	URBAN	CONTINUOUS	USED FOR AQI	CRITICAL	SU 7/1/2015
		CSN	$PM_{2.5}$	MET ONE	POPULATION	NBH	1/6 DAY	TRENDS NETWORK	CRITICAL	SU 1/1/2015
		CSN	EC/OC	URG 3000N	POPULATION	NBH	1/3 DAY	TRENDS NETWORK	CRITICAL	SU 1/1/2015
		NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	NEW	SU 1/1/2015
011-0035	799 N I-95, FT LAUDERDALE	SLAMS	NO_2	TEL-API T200	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU APRIL 2015
	26.131256, -80.167847	SLAMS	CO	TECO 48i TL	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU APRIL 2016
	I-95 South /Sunrise Blvd	SPM	BC	TAPI 633	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU APRIL 2017
	33311	SPM	Ultra Fine	TSI 3031	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU APRIL 2018
		SLAMS	$PM_{2.5}$	TEI 5014i	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU APRIL 2019
011-2003	1951 NE 48TH ST	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	RELIED ON FOR SPATIAL	CREDIBLE	SU 1/1/89 MET POMPANO BEACH (#1)
	26.290833,-80.096667	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	URBAN	1/3 DAY	INTERPOLATION	CRITICAL	RELOCATED FROM SITE 18
011-5005	4010 WINSTON PARK BLVD	SLAMS	PM_{10}	WEDDING	SOURCE	NBH	1/6 DAY	SOURCE MONITORING	CRITICAL	SLAMS 10/31/95 SD TEMP. 4/00 (#30) Site temporary down - constructing new platform
	26.295556,-80.177500	NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	NA	VOC MONITORING #30 Site temporary down - constructing new platform
		SLAMS	$PM_{2.5}$	R&P 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CREDIBLE	SU 10/1/09 Site temporary down - constructing new platform
011-8002	JOHN U LLOYD STATE PK	SLAMS	OZONE	TECO49i	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/85 (#25)
	26.088056,-80.111389	SLAMS	NO_2	TECO 42i	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 7/8/90
		NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	CRITICAL	SU Nov 2009

Miami-Dade County

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
086-0019	US27 & SR821	SLAMS	SO_2	TEI 43I	SOURCE	NBH	CONTINUOUS	TRENDS MONITORING	CRITICAL	SU 8/18/87 PENNSUCO
	25.897500,-80.380000									
086-0027	UNIV MIAMI ROSENSTIEL	SLAMS	NO_2	API T200	POPULATION	NBH	CONTINUOUS	ASSIST IN FORECASTING	CREDIBLE	SU 1/30/85 MET

	25.732500,-80.161944	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 3/7/84
086-0029	PERDUE MED CNTR	SLAMS	OZONE	API T400	HI CONC	URBAN	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 5/1/85 MET
	25.586944,-80.326111									TEMP MOVE AFTER ANDREW
086-0031	16000 S DIXIE HWY	SLAMS	CO	API 300E	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING	CRITICAL	SU 7/1/91 SLAMS 4/27/92
	25.621667, -80.344444									
086-0033	7700 NW 186th ST	SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	1/3 DAY	MONITORING GROWTH IMPACT	CREDIBLE	5/4/2005
	25.941944,-80.326388									PALM SPRINGS N FIRE STATION
086-0034	SW 127 Avenue	SLAMS	CO	API 300E	POPULATION	MIDDLE	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 4/27/05 KENDALL WASD
	17-2730.23-560.70									
086-1016	NW 20TH ST FIRE STA	SLAMS	PM_{10}	ANDERSEN 1200	HI CONC	MIDDLE	1/6 DAY	NEEDED BY REGULATION	CRITICAL	SU 1/1/85
	25.794722,-80.215555	SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CRITICAL	SU 2/4/99 DAILY COLLOCATED
		SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	AIRNOW POLLING 7/15/03
086-4002	864 NW 23RD ST (ANNEX)	SLAMS	NO_2	API T200	HI CONC	NBH	CONTINUOUS	ASSIST IN FORECASTING	CREDIBLE	SU 1/1/1984
	25.798333,-80.210278	SLAMS	CO	API 300E	HI CONC	NBH	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 1/1/76
086-6001	325 NW 2ND AVE	SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CREDIBLE	SU 1/27/99 , HOMESTEAD DAILY
	25.471944,-80.482778	SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 2/10/04, MAY MOVE BASED ON SAFETY
086-XXXX	NEAR ROAD NO2	SLAMS	NO_2	TEI 42i	HI CONC	MICRO	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	EXPECTED SU IN 2015

Palm Beach County										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
099-0008	38145 SR 80	Non-Reg	$PM_{2.5}$	BAM 1020	SOURCE	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 5/1/09
	26.724166,-80.663333									
099-0009	980 CRESTWOOD BLVD N	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 3/1/00
	26.730833,-80.233888	SLAMS	$PM_{2.5}$	R&P 2025A	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CRITICAL	SU 12/99 COLLOCATED
		Non-Reg	$PM_{2.5}$	BAM 1020	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 7/9/07 ROYAL PALM WWTP
		SLAMS	PM_{10}	BAM 1020	POPULATION	NBH	CONTINUOUS			
099-0021	8TH STREET, LANTANA	SLAMS	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 2/2015 LANTANA PRESERVE
	26.592679, -80.058491	SPM	NO_2	API T200	POPULATION	NBH	CONTINUOUS	ASSIST IN FORECASTING	CREDIBLE	SU 2/2015 Replacing 099-0020
		SLAMS	PM_{10}	BAM 1020	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 2/2015 260 m east of 099-0020
099-2005	225 S CONGRESS	SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION	CRITICAL	SU 5/31/01
	26.456944,-80.092777									

METROPOLITAN STATISTICAL AREA: TAMPA - ST PETERSBURG - CLEARWATER (HILLSBOROUGH, PINELLAS, PASCO AND HERNANDO COUNTIES)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Hillsborough County										
057-0081	SIMMONS PARK	SLAMS	OZONE	TEI 49i	HI CONC	URBAN	CONTINUOUS	USED FOR AQI	CRITICAL	SU 6/14/78 MET
	27.740033,-82.465146	SLAMS	SO_2	TEI 43i	HI CONC	URBAN	CONTINUOUS	FOR EFFECTIVENESS OF NEW REGULATIONS	CREDIBLE	SU 1/1/78 SLAMS 4/27/92
057-0083	GARDINIER PARK	SPM	PM_{10}	R & P 1405	SOURCE	MIDDLE	CONTINUOUS	SOURCE MONITORING	CREDIBLE	SU 4/1/95
	27.864233,-82.383500									
057-0100	2909 N 66th ST	SPM	LEAD	HI VOL	SOURCE	MIDDLE	1/6 DAY	SOURCE MONITORING	CRITICAL	SU 4/2/10 KENLY ELEMENTARY
	27.970328,-82.38005									
057-0109	9851 HWY 41 SOUTH	SLAMS	SO2	TEI 43Ci	SOURCE	NBH	CONTINUOUS	SOURCE MONITORING	CRITICAL	SU 10/96 EAST BAY SLAMS 11/13/96
	27.853889,-82.384167									MET; REPLACED GIANTS CAMP

057-1035	DAVIS ISLAND	SLAMS	PM_{10}	TEI 1405	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 12/1/85 TEOM USED FOR AQI
	27.929167,-82.453611	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 1/1/73 MET
		SLAMS	SO_2	TEI 43i	POPULATION	NBH	CONTINUOUS	FOR EFFECTIVENESS OF NEW REGULATIONS	CREDIBLE	SU 1/1/74
057-1065	5121 GANDY BLVD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CREDIBLE	SU 9/1/89 MET MARINE RESERVE
	27.893183,-82.538250	SLAMS	NO2	T-API T200	HI CONC	NBH	CONTINUOUS	COMMUNITYWIDE MONITOR	CRITICAL	SU 4/1/90 NO, NO_x
		SPM	$PM_{2.5}$	TEI 1405	HI CONC	NBH	CONTINUOUS	USED FOR AQI	CRITICAL	1/1/2004
057-1066	1700 N 66TH ST	SLAMS	LEAD	ANDERSEN 2000	SOURCE	MIDDLE	1/6 DAY	SOURCE MONITORING	CRITICAL	SU 1/2/90 CSX RAIL YARD
	27.96950,-82.381850									COLLOCATED
057-1073	6811 E 14th ST	SPM	LEAD	HI VOL	SOURCE	MIDDLE	1/6 DAY	SOURCE MONITORING	CREDIBLE	SU 10/31/97
	27.964867,-82.379033									NE OF ENVIROFOCUS
057-1111	601 W LAUREL ST	SLAMS	NO_2	T-API T200UP	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU DECEMBER 2013
	27.95555, -82.46714	SLAMS	CO	T-API T300U	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU DECEMBER 2013
		SPM	BC	T-API 633	SOURCE	MICRO	CONTINUOUS	GRANT REQUEST	CREDIBLE	SU DECEMBER 2013
		SPM	Ultra Fine	T-API 651	SOURCE	MICRO	CONTINUOUS	GRANT REQUEST	CREDIBLE	SU DECEMBER 2013
		SLAMS	$PM_{2.5}$	TEI 5014i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU DECEMBER 2013
057-3002	SYDNEY RD	NCORE	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SYDNEY SU 01/01/04, MET
	27.965700,-82.230617	NCORE	NO_Y	TEI 42i-Y	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 01/01/04
		NCORE	CO_TL	TEI 48CTL	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 01/01/05
		NCORE	SO2_TL	TEI 43i-TLE	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 01/01/06
		NCORE	PM2.5	R&P 2025	POPULATION	URBAN	DAILY	NEEDED BY REGULATION	CRITICAL	SU 01/01/04 COLLOCATED
		NCORE	PM_{10}	R&P 2025	POPULATION	URBAN	DAILY	NEEDED BY REGULATION	CRITICAL	SU 1/4/04 COLLOCATED FOR PMCOARSE
		NCORE	PM_{coarse}	R&P 2025	POPULATION	URBAN	DAILY	NEEDED BY REGULATION	CRITICAL	SU 01/21/010
		NCORE	$PM_{2.5}$	TEI 5014i	POPULATION	URBAN	CONTINUOUS	USED FOR AQI	CRITICAL	SU 01/01/05
		NCORE	PM_{10}	GMW HI VOL	POPULATION	URBAN	1/6 DAY	NEEDED BY REGULATION	CRITICAL	SU 01/04/04 PM10 MASS
		NCORE	PM10-Pb	R&P 2025	POPULATION	URBAN	1/6 DAY	NEEDED BY REGULATION	CRITICAL	SU 01/04/04
		STN	EC/OC	URG 3000N	POPULATION	URBAN	1/3 DAY	BASELINE MONITORING	CRITICAL	SU 01/01/07
		STN	$PM_{2.5}$	METONE SASS	POPULATION	URBAN	1/3 DAY	TRENDS NETWORK	CRITICAL	SU 1/2004
		NATTS	TOXICS		POPULATION	URBAN	1/6 DAY	BASELINE MONITORING	NA	VOC/CARBONYL/METAL MONITORING
New Site	2806 POINSETTIA AVE	SPM	LEAD	TISCH HI VOL	SOURCE	MICRO	1/6 DAY	SOURCE MONITORING	CREDIBLE	SU 1/2016 JOHNSON CONTROLS
New Site	6506 DOLPHIN COVE DR	SPM	$PM_{2.5}$	TEOM 1400AB	SOURCE	NBH	CONTINUOUS	SOURCE MONITORING	NEW	SU 1/2016 APOLLO BEACH COMMUNITY
		SPM	SO_2	TEI 43C	POPULATION	NBH	CONTINUOUS	SOURCE MONITORING	CREDIBLE	SU 1/2016

Pinellas County

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
103-0004	2435 SHARKEY RD	SLAMS	OZONE	API 400E	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 7/1/78 CLEARWATER JC
	27.971367,-82.736650									
103-0012	1313 19TH ST N	SLAMS	PM_{10}	ANDERSEN 1200	HI CONC	NBH	1/6 DAY	TRENDS MONITORING	CREDIBLE	SU 4/1/92 SLAMS 7/20/92
	27.785683,-82.658232									WOODLAWN; WAIVER REQUESTED
103-0018	7200 22ND AVE N	SLAMS	OZONE	TEI 49I	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CRITICAL	SU 4/6/78 AZALEA PARK MET
	27.791,-82.740	SLAMS	NO_2	TEI 42I	POPULATION	NBH	CONTINUOUS	FORECAST ASSISTANCE	CREDIBLE	SU 1/1/78 NO, NOX
		SLAMS	PM_{10}	ANDERSEN 1200	POPULATION	NBH	1/6 DAY	NEEDED BY REGULATION	CRITICAL	SU 4/1/92 SLAMS 7/20/92
		SLAMS	$PM_{2.5}$	R&P 2025 B	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CRITICAL	SU 01/01/99 COLLOCATED 1/12 DAY
		SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CRITICAL	SU 05/01/01
		NON REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	NA	VOC/CARBONYL/METAL MONITORING

103-0023	10100 SAN MARTIN	SLAMS	SO_2	TEI 43C	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 1/1/79 DERBY LANE
	27.863583,-82.623483									
103-0026	8601 60th St. North	NATTS	BC	TAPI 633	POPULATION	NBH	CONTINUOUS	BASELINE MONITORING	NA	SU MET; SKYVIEW, PINELLAS PK
	27.850041, -82.714590	NATTS	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	NA	VOC/SVOC/Carbonyl/PAHs/Metal/Cr+6 monitoring, Cr+6 discontinued on 6/28/13
103-1009	1360 SANDY LANE	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION	CREDIBLE	SU 9/12/03
	27.986283,-82.782150									
103-2008	13280 34TH ST N	SLAMS	CO	TEI 48C	HI CONC	MICRO	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 4/1/93 SLAMS 7/1/93 GATEWAY
	17-3086.245N-334.583E									
103-3004	1301 ULMERTON	SLAMS	PM_{10}	GWC 1200	HI CONC	MIDDLE	1/6 DAY	TRENDS MONITORING	CREDIBLE	SU 7/31/88 COLLOCATED 1/12 DAY
	27.895300,-82.774700									MOTORPOOL
103-5002	2200 East Lake Rd	SLAMS	PM_{10}	ANDERSEN 1200	POPULATION	NBH	1/6 DAY	TRENDS MONITORING	SUPPLEMENTAL	SU 11/1/88; SLAMS 7/20/92; EASTLAKE
	28.090000,-82.700556	SLAMS	OZONE	API 400E	HI CONC	URBAN	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 1/1/77 MET; John Chestnut Sr Park
		SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 9/5/07
103-5003	40671 US 19 NORTH	SLAMS	SO_2	TEI 43C	SOURCE	NBH	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 9/18/98 MET OAKWOOD
	28.141944,-82.740000									SLAMS 12/1/98
103-XXXX	I-275 (TBD) / UTM:(TBD)	SLAMS	NO_2	TBD	SOURCE	MICRO	CONTINUOUS	NEEDED BY REGULATION	NEW	NEAR-ROAD SITE -TO BE INSTALLED BY 10/1/2015
		SLAMS	CO	TBD	SOURCE	MICRO	CONTINUOUS	SUPPORT NEAR ROAD	NEW	NEAR-ROAD SITE -TO BE INSTALLED BY 10/1/2015
		SPM	BC	TBD	SOURCE	MICRO	CONTINUOUS	SUPPORT NEAR ROAD	NEW	NEAR-ROAD SITE -TO BE INSTALLED BY 10/1/2015

Pasco County										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
101-0005	30908 WARDER RD	SLAMS	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	URBAN SPRAWL	CREDIBLE	SU 09/07/00 MET, SAN ANTONIO
	28.331944,-82.305833									
101-2001	3452 DARLINGTON RD	SLAMS	OZONE	TEI 49i	HI CONC	URBAN	CONTINUOUS	URBAN SPRAWL	CREDIBLE	HOLIDAY
	28.194722,-82.756389									SU 1/17/92 MET SLAMS 4/27/92

METROPOLITAN STATISTICAL AREA - JACKSONVILLE (BAKER, CLAY, DUVAL, NASSAU AND ST. JOHNS COUNTIES)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Baker County										
003-0002	OSCEOLA RANGER OFFICE	SPM	OZONE	TEI 49i	BACKGROUND	URBAN	CONTINUOUS	REGIONAL BACKGROUND	CREDIBLE	SU 01/01/96 OLUSTEE MET
	30.201111,-82.441111									
Duval County										
031-0032	2900 BENNET ST / KP	SLAMS	SO_2	TEI 43i	HI CONC	NBH	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 1/1/74 -KOOKER PARK
	30.356111,-81.635556	SLAMS	NO_2	TEI 42i	HI CONC	NBH	CONTINUOUS	COMMUNITY-WIDE NO2 MONITORING	CRITICAL	SU 1/6/75 -KOOKER PARK
		SPM	$PM_{2.5}$	R&P 2025i	POPULATION	NBH	DAILY	COMMUNITY RESPONSE	CREDIBLE	SU 07/16/09 -KOOKER PARK
		SLAMS	PM_{10}	TEI 1405	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 2/1/08 -KOOKER PARK
031-0077	13333 LANIER RD / SE	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/79 -SHEFFIELD ELEM SCHOOL
	30.476944,-81.586667	SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 9/1/08 -SHEFFIELD ELEM SCHOOL
031-0080	1605 MINERVA ST	SLAMS	SO2	TEI 43i	SOURCE	MIDDLE	CONTINUOUS	SOURCE MONITORING	CREDIBLE	SU 1/1/79 -SOUTHSIDE PLAYGROUND
	30.308889,-81.653056	SLAMS	CO	TEI 48i	HI CONC	NBH	CONTINUOUS	TRENDS MONITORING	CRITICAL	SU 10/18/79-SOUTHSIDE PLAYGROUND
031-0081	6801 CEDAR BAY RD / CB	SLAMS	SO_2	TEI 43i	SOURCE	MIDDLE	CONTINUOUS	SOURCE MONITORING	CRITICAL	SU 1/1/78 -CEDAR BAY

	30.431111,-81.631944									
031-0084	ROSSELLE & COPELAND / RC	SLAMS	PM10	TEI 1405	HI CONC	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 12/1/87 COLLOCATED SD 9/29/02 CONVERT CONTINUOUS 2/11/08 (RC)
	30.320556,-81.686667	SLAMS	CO	TEI 48i	HI CONC	MIDDLE	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 1/1/80 -SLAMS 1/1/81 (RC)
031-0097	6241 FORT CAROLINE RD / FC	SLAMS	SO_2	TEI 43i	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 9/7/91 (FC)
	30.367222,-81.594167									
031-0098	14932 MANDARIN ROAD / MN	SLAMS	$PM_{2.5}$	TEI 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CRITICAL	SU 06/01/99 DAILY (MN)
	30.135861,-81.634083	SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/2004 (MN)
031-0099	9429 MERRILL ROAD / SA	SLAMS	$PM_{2.5}$	TEI 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CRITICAL	SU 06/01/99 DAILY - COLLOCATED (SA)
	30.354722,-81.547777	SLAMS	$PM_{2.5}$	R&P 2025B	POPULATION	NBH	1/12 Day	COLLOCATED	CRITICAL	SUNNY ACRES (SA)
031-0100	13600 Wm. DAVIS PKWY / MO	SLAMS	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION	CREDIBLE	SU 9/1/02 -MAYO CLINIC
	30.260278,-81.453611	SPM	$PM_{2.5}$	TEI 504i	POPULATION	URBAN	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 1/1/04 -MAYO CLINIC 5014i collocated
031-0106	4770 CISCO DR / CS	SPM	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CRITICAL	SU 9/28/2009 (CS)
	30.378056,-81.840556									
031-0107	1216 DAY AVE / LEE HIGH	SPM	CO	TEI 48i	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 5/3/2012 -LEE HI SCHOOL
	30.308534,-81.705577									
031-0108	5895 PEPSI PLACE	SLAMS	NO_2	TEI 42i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/2014 (PP) Near road NO_2
	30.262778, -81.606833	SLAMS	CO	TEI 48i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/2014 (PP)
		SLAMS	$PM_{2.5}$	TEI 5014i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/2014 (PP)
New site	Yellow Water Road	SPM	LEAD	R&P 2025	POPULATION	NBH	1/6 Day	SOURCE IMPACT	SUPPLEMENTAL	
Nassau County										
089-0005	WATER PLT 5TH ST	SLAMS	SO2	TEI 43i	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/76
	30.6575, -81.464167									
089-0010	96160 Nassau Place	SPM	$PM_{2.5}$	1405 TEOM	BACKGROUND	NBH	CONTINUOUS	REGIONAL BACKGROUND	CRITICAL	SU 12/21/2012 Yulee
	30.62673, -81.53597									

METROPOLITAN STATISTICAL AREA: ORLANDO - KISSIMMEE (LAKE, ORANGE, OSCEOLA AND SEMINOLE COUNTIES)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Lake County										
069-0002	1901 JOHNS LAKE RD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	MONITORING EXTENDED COUNTY OF LARGE MSA	CREDIBLE	SU 06/01/00 MET LOST LAKE ELM, CLERMONT
	28.523611,-81.723611									
Orange County										
095-0008	7005 WINEGARD RD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 9/1/88
	28.454167,-81.381389									
095-2002	MORSE BLVD & DENNING	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/76 WINTER PARK
	28.596389,-81.362500	SLAMS	CO	TEI 48i	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING	CRITICAL	SU 3/23/78 MET
		SLAMS	NO_2	TEI 42i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/81
		SLAMS	SO_2	TEI 43i	HI CONC	NBH	CONTINUOUS	FOR EFFECTIVENESS OF NEW REGULATIONS	CRITICAL	SU 1/1/76
		SLAMS	PM_{10}	TEI 4015i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 5/1/91
		SLAMS	$PM_{2.5}$	R&P 2025i	POPULATION	NBH	DAILY	NEEDED BY REGULATION	CRITICAL	SU 01/01/99 DAILY COLLOCATED
		SPM	$PM_{2.5}$	TIE 1405	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CRITICAL	SU 06/01/00
		NON-REG	TOXICS		POPULATION	NBH	1/6 DAY	BASELINE MONITORING	NA	VOC/CARBONYL MONITORING
095-XXXX	ADJACENT TO I-4	SLAMS	NO_2	TEI 42i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	NEW / CRITICAL	SU 12/2016 ONE YEAR EXTENSION GRANTED
		SLAMS	CO	TEI 48i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	NEW / CRITICAL	SU 12/2016 ONE YEAR EXTENSION GRANTED

		SLAMS	PM2.5	TEI 5014i	SOURCE	MIDDLE	CONTINUOUS	NEEDED BY REGULATION	NEW / CRITICAL	SU 12/2016 ONE YEAR EXTENSION GRANTED
Osceola County										
097-2002	8706 W SR 192	SLAMS	OZONE	TEI 49i	HI CONC	URBAN	CONTINUOUS	URBAN SPRAWL	CREDIBLE	SU 9/1/93 KISSIMMEE FIRE STATION
	28.345555,-81.636667									SLAMS 10/6/93 MET
Seminole County										
117-1002	SEMINOLE C.C.(AG COMP)	SLAMS	OZONE	TEI 49i	HI CONC	URBAN	CONTINUOUS	MONITORING EXTENDED COUNTY OF LARGE MSA	CREDIBLE	SU 1/1/80 SANFORD MET
	28.746111,-81.310556	SLAMS	PM_{10}	R & P 1400 AB	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 12/22/00
		SLAMS	$PM_{2.5}$	R&P 2025 A	POPULATION	NBH	1/3 DAY	MONITORING EXTENDED COUNTY OF LARGE MSA	CREDIBLE	SU 02/01/99 COLLOCATED

SARASOTA - BRADENTON - VENICE (MANATEE AND SARASOTA COUNTIES)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Manatee County										
081-0028	PORT MANATEE with 081-3002	SLAMS	SO_2	TELEDYNE 700	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 11/2013
081-3002	PORT MANATEE	SPM	OZONE	2B 202	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 4/1/92 SLAMS 12/98 MET
	27.638611,-82.547778									TEMPORARILY SD 6/1/08 to 7/09
081-4012	5502 33RD AVE W	SPM	OZONE	2B 202	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 2/99 SLAMS 12/98 GT BRAY MET
	27.475000,-82.618611									TEMPORARILY SD 6/1/08 to 7/09
081-4013	5511 39TH STREET EAST	SPM	OZONE	2B 202	POPUATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 1/99 MET SLAMS 12/98
	27.449444,-82.522222									TEMPORARILY SD 6/1/08 to 1/10
Sarasota County										
115-0013	BEE RIDGE PARK	SPM	$PM_{2.5}$	R&P 1400AB	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITCAL	SU 5/1/08
	27.290556,-82.507222	SLAMS	$PM_{2.5}$	R&P 2025i	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION	CRITICAL	SU 01/06/99 1/3 CO-LOCATED
		SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/12 DAY	NEEDED BY REGULATION	CRITICAL	SU 01/03/99 1/12 CO-LOCATED
115-1005	LIDO PARK MCKINLEY DR	SLAMS	OZONE	API 400E	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 5/31/12 NAMS 1/00 MET
	27.310000,-82.569722									
115-1006	4570 17TH STREET	SLAMS	OZONE	TEI 49I	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CRITICAL	SU 5/16/11 NAMS 1/00 PAW PARK MET
	27.350000,-82.479444	SPM	NO_2	API T200	POPULATION	NBH	CONTINUOUS	USED TO ASSIST IN FORECASTING	SUPPLEMENTAL	SU 3/6/14
		SLAMS	PM_{10}	R&P 1400AB	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 9/19/03 T,RH,PRECIP
115-2002	250 S. JACKSON RD.	SPM	OZONE	TEI 49I	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 9/1/03
	27.088333,-82.362222	SPM	$PM_{2.5}$	TEOM 1405A	POPULATION	NBH	CONTINUOUS	TRENDS MONITORING	CREDIBLE	SU 4/1/09

METROPOLITAN STATISTICAL AREA: CAPE CORAL - FT MYERS (LEE COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Lee County										
071-0005	FT MYERS WTP	SLAMS	PM_{10}	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	REPLACED PM10 1200 2/22/01
	26.601667,-81.878055	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION	CRITICAL	SU 01/01/99 COLLOCATED
		SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 12/10/08
071-2002	5505 ROSE GARDEN RD.	SLAMS	OZONE	TECO 49i	HI CONC	URBAN	CONTINUOUS	USED FOR MAPPING	CRITICAL	SU 5/7/01 CAPE CORAL
	26.548333,-81.981667									MOVED FROM 071-2001
071-3002	FT MYERS BEACH	SLAMS	OZONE	TECO 49i	POPULATION	UBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 12/1/95 SCHOOL & BAY MET
	26.448889,-81.939444									BAY OAKS PARKS

METROPOLITAN STATISTICAL AREA: LAKELAND (POLK COUNTY)

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Polk County										
105-6005	SIKES ELEMENTARY SCHOOL	SLAMS	OZONE	TECO 49i	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 6/92 LAKELAND
	27.939444,-82.000278	SLAMS	SO_2	TEI 43i	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	PWEI: 14,040
105-6006	FL BAPTIST CHILD HOME	SLAMS	OZONE	TECO 49i	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 6/17/92 LAKELAND 2 MET
	28.028889,-81.972222	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION	CRITICAL	SU 1/1/99 CO-LOCATED
		SPM	$PM_{2.5}$	TEOM	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 8/30/07
		SLAMS	PM_{10}	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 10/23/07

METROPOLITAN STATISTICAL AREA: DELTONA-DAYTONA BEACH-ORMOND BEACH (VOLUSIA COUNTY)

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Volusia County										
127-2001	5200 SPRUCE ST	SLAMS	OZONE	TECO 49i	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/92 PORT ORANGE MET
	29.109722,-80.993611									
127-5002	1185-A DUNN AVE	SLAMS	OZONE	TECO 49i	HI CONC	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/92 DAYTONA MET
	29.206667,-81.052500	SLAMS	PM_{10}	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 6/26/98
		SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 01/04/99 Cont 12/20/07
		SLAMS	PM2.5	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION	CRITICAL	SU 2009
Flagler County										
001-3011	206 SAWGRASS RD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	FLAGLER CO REC AREA, BUNNELL
	29.489083,-81.276833									

METROPOLITAN STATISTICAL AREA: PALM BAY - MELBOURNE - TITUSVILLE (BREVARD COUNTY)

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Brevard County										
009-0007	401 FLORIDA AVENUE	SLAMS	OZONE	TECO 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 3/1/00 MELBOURNE MET
	28.053611,-80.628611	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION	CRITICAL	SU 3/1/00
		SLAMS	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 10/25/07
		SLAMS	PM_{10}	TEOM	SOURCE	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	MOVED FR FAY PARK SU 11/1/08
009-4001	400 S. 4TH ST	SLAMS	OZONE	TECO 49i	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 9/15/88 COCOA BEACH MET
	28.311117,-80.614133									

METROPOLITAN STATISTICAL AREA: PENSACOLA - FERRY PASS - BRENT (ESCAMBIA AND SANTA ROSA COUNTIES)

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Escambia County										
033-0004	ELLYSON IND PARK	SLAMS	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 1/1/75 MET
	30.525367,-87.20355	SLAMS	SO_2	TEI 43i	SOURCE	NBH	CONTINUOUS	USED TO SEE EFFECTIVENESS OF NEW REGULATIONS	CREDIBLE	SU 1/1/76
		SPM	$PM_{2.5}$	TEOM	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 2/98
		SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	TRANSPORT	CRITICAL	SU 01/01/99 1/3 COLLOCATED
033-0018	PENSACOLA NAS	SLAMS	OZONE	TEI 49i	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 10/21/80 MET
	30.36805,-87.270967									

Santa Rosa County										
113-0015	1500 WOODLAWN WAY, GULF BR	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 3/9/05 WOODLAWN BEACH MIDDLE SCH.
	30.394133,-87.008033	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 2/19/08

METROPOLITAN STATISTICAL AREA: PORT ST. LUCIE - FT PIERCE (MARTIN AND ST LUCIE COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Martin County										
085-0007	STUART	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 6/11/10
	27.172458,-80.240689	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CRITICAL	SU 6/11/10
St Lucie County										
111-0013	SAVANAS	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 2/24/11
	27.389079,-80.311032									

METROPOLITAN AREA: TALLAHASSEE (LEON, JEFFERSON AND WAKULA COUNTIES)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Leon County										
073-0012	TALLAHASSEE COM COL	SLAMS	OZONE	TEI 49i	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 6/98 SLAMS 7/1/98 MET
	30.439722,-84.346389	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 01/01/99 FLOW RATE CHANGED FROM 3 to 1 LPM 9/9/05.
		SLAMS	$PM_{2.5}$	R&P2025	POPULATION	NBH	1/3 DAY	NEEDED BY REGULATION	CRITICAL	SU 01/01/99, COLLATED 1/12 DAY(2007) 01/01/02
		SPEC	$PM_{2.5}$	METONE	POPULATION	NBH	1/6 DAY	PART OF THE CSN AT THE HIGHEST CONCENTRATION SITE	CREDIBLE	SU 01/02/02 SPECIATION
073-0013	MICC. GREENWAYS	SLAMS	OZONE	TEI 49i	HI CONC	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 9/15/00 MET
	30.484444,-84.199444									
Wakulla County										
129-0001	ST MARKS WILDLIFE REF	SLAMS	OZONE	TEI 49i	REGIONAL TRANSPORT	URBAN	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 04/16/01 MET
	30.0925,-84.161111	NCORE	NO_Y	T-API	BACKGROUND	URBAN	CONTINUOUS	RURUAL N-CORE	NEW	EXPECTED SU SPRING 2014
		NCORE	CO_TL	T-API	BACKGROUND	URBAN	CONTINUOUS	RURUAL N-CORE	NEW	EXPECTED SU SPRING 2015
		NCORE	SO2_TL	T-API	BACKGROUND	URBAN	CONTINUOUS	RURUAL N-CORE	CRITICAL	SU 2/19/2015
		NCORE	$PM_{2.5}$	TEOM	BACKGROUND	URBAN	CONTINUOUS	RURUAL N-CORE	CRITICAL	SU 1/6/2015
										WITH IMPROVE FOR SPECIATION

METROPOLITAN STATISTICAL AREA: NAPLES - MARCO ISLAND (COLLIER COUNTY)										
AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Collier County										
021-0004	LAUREL OAK ELEMENTARY	SPM	OZONE	TEI 49i	POPULATION	URBAN	CONTINUOUS	MONITORING GROWTH IMPACT	CREDIBLE	SU 09/26/01 MET
	26.269722,-81.711111	SPM	$PM_{2.5}$	TEOM	POPULATION	URBAN	CONTINUOUS	MONITORING GROWTH IMPACT	CREDIBLE	SU 3/2/05

METROPOLITAN STATISTICAL AREA: OCALA (MARION COUNTY)									
					MONITORING	SPATIAL	OPERATING		

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	OBJECTIVE	SCALE	SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Marion County										
083-0003	SE 17TH ST & SE 30TH AVE	SLAMS	OZONE	TEI 49i	HI CONC	NBH	CONTINUOUS	MONITORING GROWTH IMPACT	CREDIBLE	SU 5/98 YMCA MET SLAMS 7/1/98
	29.171389,-82.094722	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 01/07/99 Cont 11/27/07
083-0004	692 NW 30TH AVE	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 11/8/00 MET SHERIFF'S DEPT IMPOUND
	29.192778,-82.173056									

METROPOLITAN STATISTICAL AREA: GAINESVILLE (ALACHUA AND GILCHRIST COUNTY)

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Alachua County										
001-0023	5400 NW 43RD ST	SLAMS	$PM_{2.5}$	R&P 2025	POPULATION	NBH	1/3 DAY	TRENDS MONITORING	CREDIBLE	SU 01/01/99 CO-LOCATED
	29.706111,-82.387778									
001-3011	100 SAVANNAH BLVD	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 8/1/97 ; SLAMS 7/1/98
	29.544722,-82.296111	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOS	AQI	CREDIBLE	MET PAYNES PRAIRIE

METROPOLITAN STATISTICAL AREA: FORT WALTON BEACH - CRESTVIEW - DESTIN (OKALOOSA COUNTY)

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Okaloosa County										
091-0002	720 LOVEJOY RD NW	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 12/1/08 MARY ESTHER
	30.426533,-86.666217	SPM	PM_{10}	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU 2/1/2013

METROPOLITAN STATISTICAL AREA: PANAMA CITY - LYNN HAVEN (BAY COUNTY)

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Bay County										
005-0006	ST ANDREWS PARK	SLAMS	OZONE	TEI 49i	HI CONC	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	SU 7/13/00 MET
	30.130433,-85.731517	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	USED FOR AQI	CREDIBLE	SU FEB 2009

METROPOLITAN STATISTICAL AREA - SEBRING (HIGHLANDS COUNTY)

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Highlands County										
055-0003	123 MAIN DRIVE	SPM	OZONE	TEI 49i	BACKGRND	REGIONAL	CONTINUOUS	REGIONAL BACKGROUND	CREDIBLE	SU 06/14/01
	27.187500,-81.339444									

MICROPOLITAN STATISTICAL AREA: PALATKA (PUTNUM COUNTY)

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Putnam County										
107-1008	COMFORT ROAD	SLAMS	SO_2	TEI 43i	SOURCE	NBH	CONTINUOUS	SOURCE MONITORING	CREDIBLE	SU 8/15/91 BARGE PORT
	29.686667,-81.656389	SLAMS	PM_{10}	TEOM	SOURCE	NBH	CONTINUOUS	SOURCE MONITORING	CREDIBLE	SU 8/28/02; TEOM 12/13/02

MICROPOLITAN STATISTICAL AREA: LAKE CITY (COLUMBIA COUNTY)

					MONITORING	SPATIAL	OPERATING			

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	OBJECTIVE	SCALE	SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Lake County										
023-0002	VETERAN'S DOMICILE	SLAMS	OZONE	TEI 49i	POPULATION	NBH	CONTINUOUS	TO MONITOR THE IMPACT OF HIGH TRAFFIC	CREDIBLE	SU 11/01/00 VETERAN'S DOMICILE MET
	30.178056,-82.619167	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	RURAL MONITORING	CREDIBLE	SU 5/17/07

MICROPOLITAN STATISTICAL AREA: HOMOSASSA SPRINGS (CITRUS COUNTY)

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Citrus County										
017-0005	Power Line Road	SPM	$PM_{2.5}$	R&P 2025	POPULATION	URBAN	1/3 DAY	MONITORING GROWTH IMPACT	CREDIBLE	SU 3/4/99 RUN FOR FL POWER CORP BY AMBIENT AIR SERVICES SD 12/2015
	28.980556,-82.700000									COLOCATED; CRYSTAL RIVER
017-0006	W. Power Line Road	SLAMS	SO_2	TEI 43i	SOURCE	NBH	CONTINUOUS	NEEDED BY REGULATION	CRITICAL	PWEI: 14,903
	28.958372, -82.643094	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	RURAL MONITORING	CREDIBLE	SU 10/2013

NOT IN A METROPOLITAN STATISTICAL AREA

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
Holmes County										
059-0004	BONIFAY AIRPORT	SPM	OZONE	TEI 49i	BACKGROUND	REGION	CONTINUOUS	REGIONAL BACKGROUND	CREDIBLE	SU 9/1/96 MET
	30.848611,-85.603889	SPM	$PM_{2.5}$	TEOM	POPULATION	NBH	CONTINUOUS	REGIONAL BACKGROUND	CREDIBLE	SU 6/14/07
Hamilton County										
047-0015	COUNTY RD 137	SLAMS	SO_2	TEI 43i	SOURCE	MIDDLE	CONTINUOUS	SOURCE MONITORING	SUPPLEMENTAL	SU 9/18/82 WHITE SPRINGS, OXYCHEM
	30.426111,-82.795278	SPM	$PM_{2.5}$	TEOM	SOURCE	NBH	CONTINUOUS	RURAL MONITORING	SUPPLEMENTAL	SLAMS 4/27/92 MET TEOM 11/6/01 PM2.5 TEOM 5/17/07

IMPROVE NETWORK

AQS #	SITE ADDRESS/UTM	TYPE	POL.	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	OPERATING SCHEDULE	STATEMENT OF PURPOSE	ASSIGNED VALUE	COMMENTS
129-0001	ST MARKS WILDLIFE REF	SPM	$PM_{2.5}$	IMPROVE	BACKGROUND	URBAN	1/3 DAY	NEEDED BY REGULATION	NA	SU 2000
	CHASSAHOWITZKA WILDLIFE REF	SPM	$PM_{2.5}$	IMPROVE	TRANSPORT	URBAN	1/3 DAY	NEEDED BY REGULATION	NA	SU 1993
086-0030	EVERGLADES NATIONAL PARK	SPM	$PM_{2.5}$	IMPROVE	BACKGROUND	URBAN	1/3 DAY	NEEDED BY REGULATION	NA	SU 1988

List of abbreviations:

AQI	Air Quality Index
CO	Carbon Monoxide
FRM	Federal Reference Method
HI CONC	High Concentration
MET	Implies that wind speed and wind direction instruments are on site
NAMS	National Air Monitoring stations
NBH	Neighborhood
NCORE	Proposed N-Core
NO2	Nitrogen Dioxide
NON-REG	Non-regulatory Monitoring

PM2.5	Particulate matter with aerodyanmic diameter of 2.5 micro meter
PM10	Particulate matter with aerodyanmic diameter of 10 micro meter
SLAMS	State and Local Air Monitoring Stations
SO2	Sulfur Dioxide
SPM	Special Purpose Monitors
S SPEC	Supplemental Speciation
SU	Start Up
TREND	Speciation Trends Network
VOC	Volatile Organic Compound

Florida Network Monitoring Requirments Metropolitan Statistical Areas	2014 Population Estimates	$PM_{2.5}$ Annual DV	$PM_{2.5}$ 24 hour DV	General $PM_{2.5}$ Monitors Req.	Coll. Cont. $PM_{2.5}$	Road side $PM_{2.5}$ Req. [10]	Ozone Design Value	Ozone Reg.	PM_{10} Compare to Med Cut Pt	PM_{10} Req.	N-Core	Lead Req.[2]	SO_2 PEWI 2012 NEI	PEWI SO_2 Req.[3]	Road side NO_2[45]	Comm-wide NO_2[6]	RA 40 NO_2[7]	Road side CO Req.[8]
Miami-Fort Lauderdale-Pompano Bch	5,929,819	7	16	msa: 2			63	msa: 1		msa: 2	1		147,762	2	2	1		
Broward County	1,869,235	7.1 [1]	17 [1]	2	1	1	61	1	< 120	1								1
Miami-Dade County	2,662,874	7	15	2	1		63	1	< 120	1							1	
Palm Beach County	1,869,235	5.6	13	2	1		59	1	< 120	1								
Tampa-St. Petersburg-Clearwater	2,915,582	6.8	15	msa: 2	1		69	msa: 1	< 120	msa: 2	1	2	94,280	2	2	1		1
Hernando	175,855			0														
Hillsborough	1,316,298	6.8	15	1	1	1	69	2	< 120	1								
Pasco	485,331			0			66	2										
Pinellas	938,098	6.5	15	1	1		64	2	< 120	1								
Orlando-Kissimmee-Sanford	2,321,418	6.6	17	2	1	1	66	2	< 120	2			13,157	1	1	1		1
Jacksonville	1,419,127	7.8	19	2	1	1	61	2	< 120	2			32,408	1	1	1		1
North Port-Bradenton-Sarasota	748,708	6.6	17	1	1		67	2	< 120	1			5,030	1	1			
Lakeland	634,638	6.8	14	1	1		66	2	< 120	1			10,666	1	1			
Cape Coral-Fort Myers	679,513	6.2	14	1	1		64	2	< 120	1			770		1			
Deltona-Daytona Beach-Ormond Bch	609,939	6.4	15	1	1		63	1	< 120	1			252 [11]		1			
Palm Bay-Melbourne-Titusville	556,885	5.9	16	1	1		63	1	< 120	1			3,003		1			
Pensacola-Ferry Pass-Brent	474,081	8.0	17	0			69	2	< 120	0			13,122	1				
Port St. Lucie-Fort Pierce	444,420	8.0 [1]	18 [9 1]	0			62 [1]	1	< 120	0			3,780					
Tallahassee	375,751	8.7	20	0			62	1	< 120	0			170					
Naples-Marco Island	348,777	8.2 [9]	18 [9]	0			59	0	< 120	0			109					
Ocala	339,167	8.8 [9]	17 [9]	0			62	0	< 120	0			101					
Gainesville	273,377	6.9	16	0			62	0	< 120	0			1,601					
Crestview-Fort Walton Beach-Destin	258,042	<10	<29	0			64	1	< 120	0			28					
Panama City-Lynn Haven	194,929	8.6 [9]	18 [9]	0			65	1	< 120	0			2,437					
Punta Gorda (Charlotte Co)	168,474	<10	<29	0			~64	0	< 120	0			21					
Sebastian - Vero Beach	144,755	<10	<29	0				0	< 120	0			15					
Homosassa Springs (Citrus Co)	139,377	6.6	17	0			>63.75	0					9,456	1				
The Villages (Sumter Co)	139,377						>63.75	0					11					
Sebring (Highlands Co)	98,236			0			61	0					41					

Note: $PM_{2.5}$ Design Value (DV) cut-point: Annual-10.2 Daily-29.75 Ozone DV cut-point: 63.75 PM10 Medium cut-point:120

Note: PM_{10}, $PM_{2.5}$ & Ozone are based on MSA

1 - Based on incomplete data

2 - Source Lead monitors must be in the Air Monitoring Plan July 1, 2011 and in operation December 27, 2011

3 - Required SO_2 monitors must be in the Air Monitoring Plan July 1, 2011 and in operation January 1, 2013

4 - NO_2 near-road in CBSAs of 1 million or more shall be in the Air Plan July 1, 2012 and be operational by January 1, 2014; the 2nd in CBSAs with 2.5 million or roadway segments with 250,000 AADT must be in the Air Monitoring Plan July 1, 2014 and must be operational January 1, 2015

5 - NO_2 near-road monitors in CBSAs having 500,000 or more, but less than 1 million must be in the Air Monitoring Plan by July 1, 2016 and must be operational January 1, 2017.

6 - NO_2 area-wide monitors must in the Air Monitoring Plan July 1, 2012 and in operation January 1, 2013

7 - NO_2 vulnerable and susceptible monitors (RA 40 - Regional Administrator 40) must be in the Air Monitoring Plan by July 1, 2012 and in operation by January 1, 2013

8 - CO near-road monitors in CBSAs of 2.5 million people or more must be in the Air Monitoring Plan by July 1, 2014 and in operation by January 1, 2015; in CBSAs with 1 million or more, but less than 2.5 million, the monitors must be in the plan by July 1, 2016 and in operation by January 1, 2017

9 - Based on Non-FRM data

10 - $PM_{2.5}$ near-road in CBSAs with 2.5 million must be in the Air Monitoring Plan by July 1, 2014 and operational by January 1, 2015, in CBSAs with 1 million or more but less than 2.5 million monitors must be in the Air Monitoring Plan by July 1, 2016 and operational by January 1, 2017.

11 - PWEI includes 9 from Flagler County

Waiver Renewal Request

DEP is requesting renewal of the waiver providing the FEM $PM_{2.5}$ monitors in Palm Beach County to be part of the non-regulatory network. The County's $PM_{2.5}$ FEM monitors (Met One BAM 1020's) at AQS Site # 12-099-0008 and 12-099-0009 sites have previously been approved to be part of the non-regulatory network. The comparison of the data from the Met One BAM 1020 and the FRM (TEI 2025) at the collocated site continues to show that the Met One BAM 1020 is not FRM-like. The Slope, Intercept and Correlation all fail the limits set to be FRM-like. Therefore, DEP requests to maintain these two analyzers as part of the non-regulatory network.

Figure 7. Results of FRM-Like Comparison for Met One BAM 1020 with 2014 Data

Summary - Candidate ARM Comparability

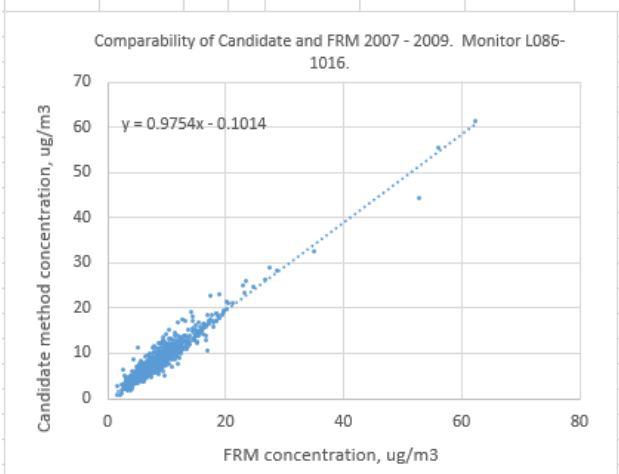
Applicant:	FDEP
Candidate method:	2014 FRM and BAM 1020 - Class
Test site:	Royal Palm Beach - (Site location L099-0009)

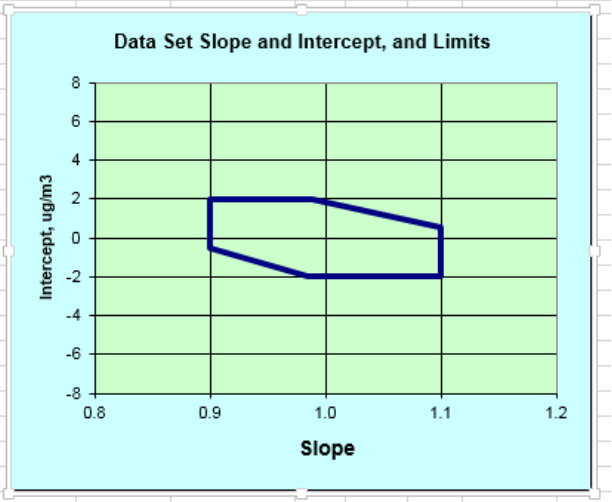
Data sets	Number
Valid data sets available:	974
Number of valid data sets required for ARM Comparison:	90
Number of valid data sets for this test is:	OK
Additional data sets needed:	--

Regression statistics		Slope[1]	Intercept[2]	Correlation (r)
Statistics for this test site:		0.316	7.725	0.19484
Limits for Class III	Upper:	1.100	2.000	
	Lower:	0.900	9.582	0.95000
Test Results (Pass/Fail):		FAIL	FAIL	FAIL

[1]Multiplicative bias [2]Additive bias

Note: Precision statistics can be calculated only for data sets containing multiple FRM or multiple candidate ARM



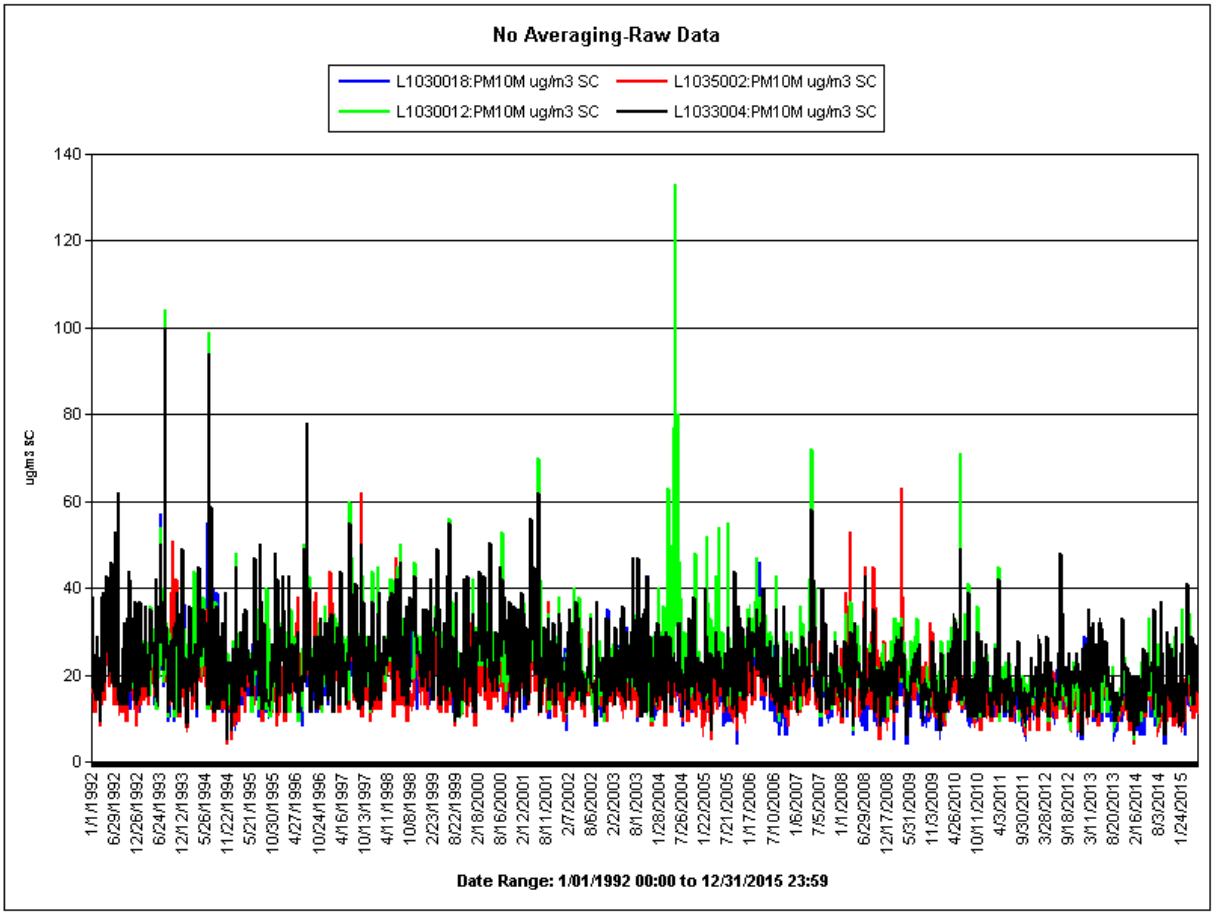


New Waiver Request

DEP is requesting a waiver from probe siting requirements for the PM_{10} monitor in Pinellas County at the Woodlawn site, AQS# 12-103-0012 in St. Petersburg seen in Figure 8. It is the only ambient air monitoring conducted in St. Petersburg and as such, the county would prefer to have the site continue to operate. It has been in operation since 1992. The graph of the PM_{10} concentrations in Pinellas County from 1992 to 2014 in Figure 9 shows that it was often high concentration site for the county. In fact, it was the design value site until 2010 when significant construction in the area subsided and the Motor Pool site, AQS# 12-103-3004 became the design value site.

Figure 8. Woodlawn Site AQS# 12-103-0012

Figure 9. Pinellas County PM10 Concentrations 1992 - 2014



The site is within 10 m to the tree to the east as seen in Figure 10. The park has received many enhancements recently. Figure 11 shows the Google Earth image at the time of the last site review. Figure 12 shows the enhancements to the park since then. The recent Good Earth Street view shown in Figure 13 indicates that the park has added more trees,. This change removes the option of moving the site a short distance to meet the siting criteria. As a long term site, and the only monitor in the city of St. Petersburg, given that the majority of the site exposure is free from obstruction, maintaining the site with a waiver from siting criteria is preferred to closing it.

Figure 10. Google Earth Image at Last Site Review

Figure 11. Figure 11. Arial of Woodlawn Site Surrounding Area's Enhancements

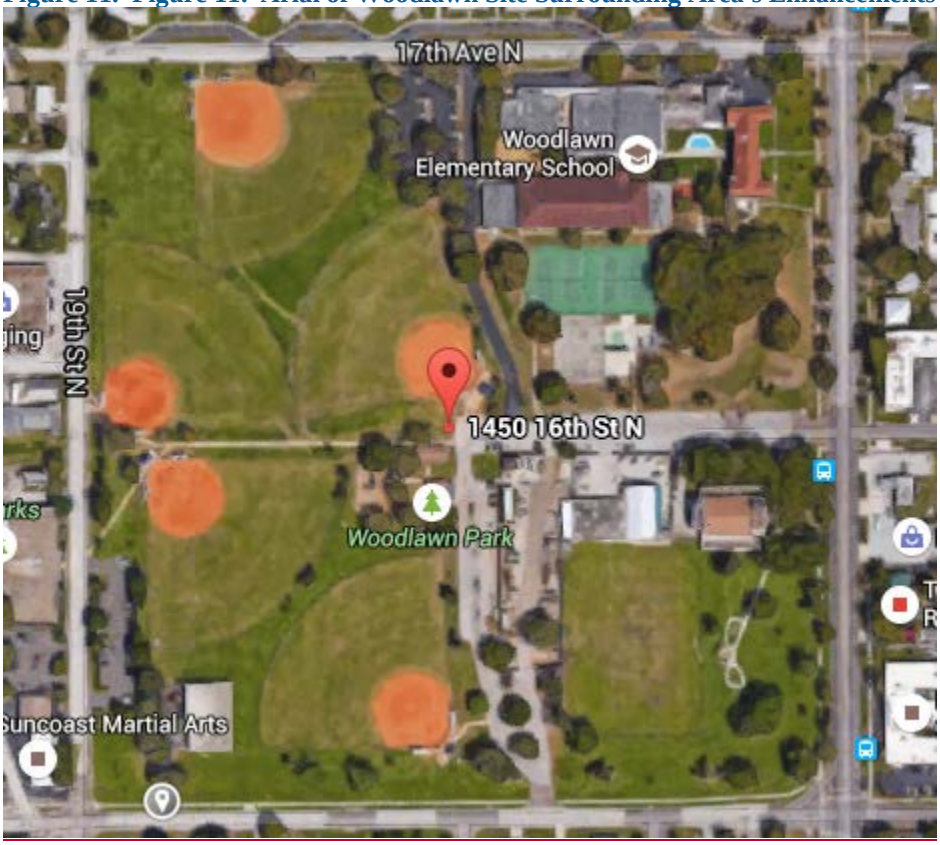


Figure 12. Street View from Google Earth Showing Newly Planted Additional Trees

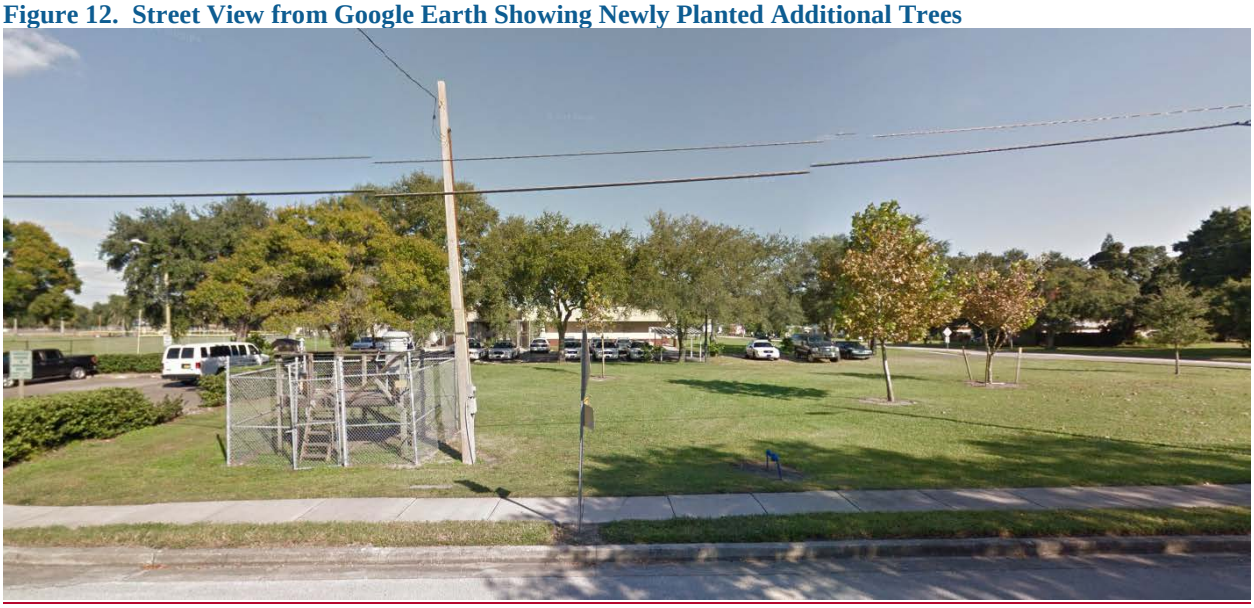


Figure 13. Facing East from Woodlawn Site

Network Equipment Evaluation

The condition of the DEP monitoring network equipment and the local monitoring agencies in the PQAO must be evaluated annually in accordance with our commitment to EPA. The summary of the evaluation is attached.

DEP

Broward County

City of Jacksonville

Hillsborough County

Manatee County

Miami-Dade County

Orange County

Palm Beach County

Pinellas County

Sarasota County