Florida Department of Environmental Protection

2016-2017
Annual Air Monitoring
Network Plan

Division of Air Resource Management
Florida Department of Environmental Protection
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Division of Air Resource Management
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TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 AIR MONITORING NETWORK 2016-2017 3
2.1 Network Design Principles 3
2.2 Network Equipment Upgrades and Enhancement 4
3.0 AIR MONITORING NETWORK MODIFICATIONS 7
3.1 Site Shut-downs, Set-ups and Relocations 9
A. Site Shut-downs 9
B. Site Set-ups 17
C. Site Relocations 21
3.2 Monitor Modifications and Discontinuations 27
A. Monitor Closures, Additions and Re-designations 27
B. Monitor Discontinuations and Reassignments (SLAMS to SPM) 30
C. $PM_{2.5}$ Operating Schedule Changes 34
4.0 FLORIDA'S AMBIENT AIR MONITORING NETWORK 2017 35
4.1 Ozone Network 35
4.2 $PM_{2.5}$ Network 37
4.3 NCore Network 40
4.4 Photochemical Assessment Monitoring Station 41
4.5 National Air Toxics Trends Station Network 48
4.6 SO_2 Monitoring Network 49
4.7 NO_2 Monitoring Network 51
4.8 CO Monitoring Network 54
4.9 PM_{10} Monitoring Network 55
4.10 Lead Monitoring Network 57
5.0 MONITORING WAIVERS 58
A. Lead Monitoring Waivers 58
B. Near-Road Monitoring Waivers 60
C. Siting Criteria 62
6.0 GLOSSARY OF AIR MONITORING TERMS 82
7.0 APPENDICES 83
Appendix A: Additional Network Information 83
Appendix B: Annual Site Review Summary 83

Appendix C: Ambient Air Monitoring Network Description 83
Appendix D: Ambient Air Monitoring Inventory 83

LIST OF FIGURES

Figure 1.1 2017 Site Locations for Florida's Ambient Air Monitoring Network 1
Figure 3.1 Daily Maximum 1-Hr SO_2 Concentrations for Lincoln Elementary..... 11
Figure 3.2 Daily Maximum 1-Hr CO Concentrations for Lincoln Elementary..... 11
Figure 3.3 Daily Maximum 8-Hr CO Concentrations for Lincoln Elementary..... 12
Figure 3.4 Daily Maximum 1-Hr CO Concentrations for Lee High School 14
Figure 3.5 Daily Maximum 8-Hr CO Concentrations for Lee High School 14
Figure 3.6 Daily Maximum 1-Hr CO Concentrations for Coral Reef 16
Figure 3.7 Daily Maximum 8-Hr CO Concentrations for Coral Reef 16
Figure 4.1 Florida Crude Rate of Asthma Hospitalization, 2009-2013..... 53
Figure 5.1 Region 4 EPA Correspondence regarding the I-4 Near Road Monitoring Waiver. 61
Figure 5.2 Street View showing Newly Planted Trees 64
Figure 5.3 East of Woodlawn Site 64
Figure 5.4 PM_{10} concentrations for Woodlawn from 2007-2016..... 65
Figure 5.5 Monthly PM_{10} Averages at Woodlawn and Davis Island for 10 years. 65
Figure 5.6 Woodlawn Site and PM_{10} Source 66
Figure 5.7 Daily 1-hr Max Ozone Conc. at Davis Island from 2007-2016 68
Figure 5.8 Daily 8-hr Max Ozone Conc. at Davis Island from 2007-2016 68
Figure 5.9 1-hr Max Monthly Averages of Ozone Conc. at Davis Island and USMC Reserve Center for 10 years. 69
Figure 5.10 1-hr Max Monthly Averages of Ozone Conc. at Davis Island and USMC Reserve Center for 10 years..... 69
Figure 5.11 Daily 1-hr Max SO_2 Conc. at Davis Island from 2007-2016 70
Figure 5.12 Daily 1-hr Max Ozone Conc. at Baptist Children's Home from 2007-2016 72
Figure 5.13 Daily 8-hr Max Ozone Conc. at Baptist Children's Home from 2007-2016 72
Figure 5.14 1-hr Max Monthly Averages of Ozone Conc. at Baptist Children's Home and Sikes Elementary for 10 years. 73
Figure 5.15 8-hr Max Monthly Averages of Ozone Conc. at Baptist Children's Home and Sikes Elementary for 10 years. 73
Figure 5.16 24-hr $PM_{2.5}$ Conc. at Baptist Children's Home from 2007-2016..... 74
Figure 5.17 Daily 1-hr Max Ozone Conc. at Osceola Co. Fire Station from 2007-2016..... 76
Figure 5.18 Daily 8-hr Max Ozone Conc. at Osceola Co. Fire Station from 2007-2016..... 76
Figure 5.19 1-hr Max Monthly Averages of Ozone Conc. at Osceola Co. Fire Station and Clermont for 10 years. 77
Figure 5.20 8-hr Maximum Monthly Averages of Ozone Concentrations at Osceola Co. Fire Station and Clermont for 10 years. 77
Figure 5.21 Port Orange site and violating tree 79
Figure 5.22 Daily 1-hr Max Ozone Conc. at Port Orange from 2007-2016..... 79
Figure 5.23 Daily 8-hr Max Ozone Conc. at Port Orange from 2007-2016..... 80
Figure 5.24 1-hr Max Monthly Averages of Ozone Conc. at Port Orange and Daytona for 10 years. 80
Figure 5.25 8-hr Max Monthly Averages of Ozone Conc. at Port Orange and Daytona for 10 years. 81

LIST OF TABLES

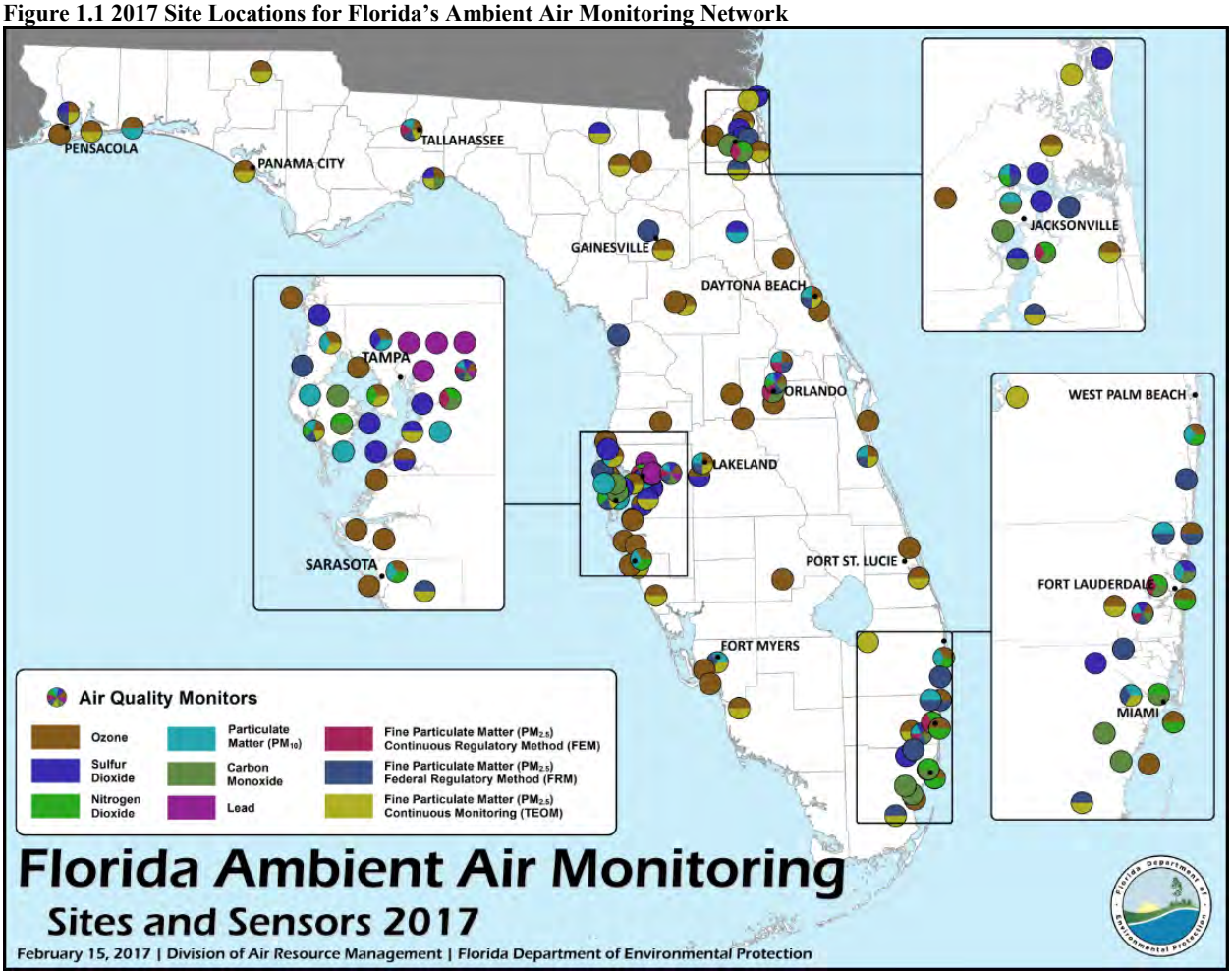
Table 1.1 Florida's Primary Quality Assurance Organization 2
Table 2.1 Equipment Purchases 2015-2017..... 5
Table 3.1 Summary of Network Modifications 7
Table 3.2 Tallahassee MSA Ozone Design Values 9
Table 3.3 NO_2 Near-road Sites for Miami-Dade and Pinellas Counties..... 17
Table 3.4 Crystal River Preserve SO_2 - AQS Site # 12-017-0006..... 19
Table 3.5 Apollo Beach - AQS Site #12-057-0112 20
Table 3.6 Munro Street - AQS Site # 12-057-0113 21
Table 3.7 Lantana Preserve - AQS Site # 12-099-0021..... 22
Table 3.8 Lamstein Lane - AQS Site #12-099-0022 23
Table 3.9 Bonifay - AQS # 12-059-0004..... 24
Table 3.10 Coconut Creek Park - AQS Site # 12-011-5005..... 25
Table 3.11 Paynes Prairie Farm - AQS Site # 12-001-3012..... 26
Table 3.12 PQAO Monitor Modifications and Discontinuations 27
Table 3.13 Monitor Discontinuations and Reassignments 30
Table 3.14 40 CFR Part 58.14(c) and Ambient Air Monitoring Network Assessment Guidance Calculations 33
Table 3.15 Florida $PM_{2.5}$ Operating Schedule Changes..... 34
Table 4.1 Florida's Ozone Network..... 35
Table 4.2 Florida's $PM_{2.5}$ Network..... 37
Table 4.3 NCore Sites in Florida 40
Table 4.4 NATTS Sites in Florida 48
Table 4.5. SO_2 Monitoring Requirements..... 49
Table 4.6 Florida's SO_2 Network..... 50
Table 4.7 NO_2 Monitoring Required by 2010 NAAQS..... 51
Table 4.8 Florida's NO_2 Near-road Network and Monitor Designations..... 53
Table 4.9 Florida's CO Network 54
Table 4.10 Florida's PM_{10} Network..... 55
Table 4.11 Florida's Lead Source Monitoring Network..... 57
Table 5.1 2014 NEI Lead Emissions and Modeled Ambient Concentrations 58
Table 5.2 2015 NEI Lead Emissions and Modeled Ambient Concentrations 59
Table 5.3 Orange County Near Road Data Loss due to I-4 Construction 60
Table 5.4 Estimated Cost for Factory Repairs[1]..... 61
Table 5.5 2016 Site Review of Woodlawn - AQS Site #12-103-0012..... 63
Table 5.6 2016 Site Review of Davis Island – AQS Site # 12-057-1035..... 67
Table 5.7 2016 Site Review of Baptist Children's Home – AQS Site # 12-105-6006..... 71
Table 5.8 2016 Site Review of Osceola Co. Fire Station – AQS Site # 12-097-2002 75
Table 5.9 2016 Site Review of Port Orange – AQS Site # 12-127-2001 78

1.0 INTRODUCTION

The Florida Department of Environmental Protection (DEP) has developed and maintains a comprehensive ambient air monitoring network that covers over 90 percent of the 20 million people living in Florida, the third most populous state in the United States. This network is designed to provide the public with accurate air quality information, and currently meets or exceeds federal air monitoring requirements.

The network is comprised of more than 220 monitors at 100 sites strategically positioned across the state. As shown in Figure 1, these sites are concentrated in areas of higher population density, along the coast, and near interstate highways. In addition, the Department established three rural monitoring sites as representative locations 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 1.1 2017 Site Locations for Florida's Ambient Air Monitoring Network



All of Florida's monitoring agencies are managed under a Primary Quality Assurance Organization (PQAO) to ensure that monitoring is conducted pursuant to a common set of procedures, using common calibration facilities and standards, and with oversight by a single air quality agency. DEP's Division of Air Resource Management is the coordinating agency that oversees this PQAO, which consists of DEP and nine Local Programs (see Table 1.1 below).

Table 1.1 Florida's Primary Quality Assurance Organization

DEP's Division of Air Resource Management	Local Programs
Office of Air Monitoring	Broward County
Emerald Coast (Panama City area)	City of Jacksonville
First Coast (Jacksonville area)	Hillsborough County
Forgotten Coast (Tallahassee area)	Manatee County
Lee Island Coast (Ft. Myers area)	Miami-Dade County
Nature Coast (Gainesville area)	Orange County
Naval Aviation Coast (Pensacola area)	Palm Beach County
Space Coast (Orlando area)	Pinellas County
Sun Coast (Tampa area)	Sarasota County

Florida's air monitoring network is designed to provide timely air pollution data to the public, support compliance with ambient air quality standards, develop emission reduction strategies, and support air pollution research studies. Data gathered from Florida's monitoring network are used to:

- Determine an area's compliance with the National Ambient Air Quality Standards (NAAQS);
- Produce a daily Air Quality Index (AQI) report;
- Compile daily air quality forecast reports;
- Support short and long-term health risk assessments;
- Identify localized health concerns; and
- Track long-term trends in air quality that could potentially affect the quality of life of Florida's residents and visitors.

This annual Air Monitoring Network Plan is a requirement of the Code of Federal Regulations (40 CFR 58) established by the U.S. Environmental Protection Agency (EPA). The purpose of this report is to provide evidence that Florida's air monitoring network meets current regulations, detail any changes proposed for the 18-month period following its publication, and provide specific information on each of the state's existing and proposed monitoring sites. Federal regulations require that the plan be posted for public comment 30 days before submission to the EPA Regional Office. The plan was made available to the public on the DEP website from April 18, 2017 through May 18, 2017 for the 30-day comment period. No comments were received from the public and comments provided by Region 4 EPA were addressed appropriately.

2.0 AIR MONITORING NETWORK 2016-2017

Florida's air monitoring network is critical for assessing the state's progress in maintaining and improving air quality, understanding temporal variations in air pollutants and evaluating pollutant exposure by individuals and the environment. One fundamental purpose of monitoring is to distinguish between areas where pollutant levels violate the ambient air quality standards and areas where they do not. Areas in violation of a standard require increased efforts to reduce the pollution that results in exceedances. Air quality agencies develop strategies, programs and regulations to achieve needed emission reductions. Data from the Florida's air monitoring network are then used to determine the rate of progress toward attaining the standards.

DEP submitted its 2015 annual Air Monitoring Network Plan to EPA on July 1, 2015, and its 2016 annual Air Monitoring Network Plan to EPA on July 1, 2016 for review and approval. After completing its review, EPA approved Florida's 2015 Air Monitoring Network Plan on October 29, 2015, except for three monitoring sites (two near-road monitoring sites and one source-oriented SO_2 site). EPA requested additional information for a full evaluation of these three sites, which was provided in Appendix A of that document.

However, EPA requested that DEP make several revisions to the 2016 annual Air Monitoring Network Plan prior to granting approval. DEP completed these revisions and all network changes for the 2017 fiscal year (FY) were incorporated into this plan. Therefore, this plan represents both the 2016 and 2017 annual Air Monitoring Network Plans and was submitted to EPA for review and approval on June 30, 2017.

2.1 NETWORK DESIGN PRINCIPLES

The principles that guide Florida's network design are:

1. Sites will meet the Code of Federal Regulations for the number, type and placement of monitors.
2. Attention will be paid to historic areas of exceedances or violations where contributing industries, activities, and/or population have been maintained.
3. There will be sufficient ozone and fine particle pollution monitors to maintain AQI reporting for large (350,000+ population) communities.
4. During network design, weight will be given to monitors that have long historical records.
5. Partnerships with private entities will be used judiciously.
6. Any monitoring required by the State Implementation Plans (SIP) will continue.
7. Coordination with Florida's local programs will be maintained to achieve a quality statewide network.

Details of the network are in the "Network Description and Requirements" section of this plan. The network description is organized first by the largest Metropolitan Statistical Areas followed by the monitoring of areas not within a Metropolitan Statistical Area. Nine county agencies assist DEP in the operation of the statewide air monitoring network. Each county's Metropolitan Statistical Areas or Micropolitan Statistical Area is identified. Requirements for the minimum number of monitoring sites are dependent on both population and population concentration for 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 monitoring for sulfur dioxide is required.

The Air Quality Index (AQI) is reported and updated hourly on DEP's website at www.dep.state.fl.us/air/air_quality/airdata.htm. It is available in both graphical and text versions. The data to support this website are collected from all continuous monitors in the state. These data are also shared on EPA's AIRNOW site at www.airnow.gov.

An Air Monitoring Network Plan is also required to provide evidence that siting and operation of each monitor meets the requirements of Appendices A, B, C, D and E of 40 CFR Part 58, where

applicable. Appendix A specifies the minimum quality system requirements applicable to State and Local Air Monitor Stations (SLAMS) and other monitor types whose data are intended to be used to determine compliance with NAAQS. Florida meets 40 CFR Part 58, Appendix A requirements with three basic functions:

1. A quality system must have approved standard operating procedures (SOP), a Quality Management Plan (QMP) and Quality Assurance Project Plans (QAPP), which are in place and updated as needed. The most recent QAPP was approved in April 2007 for all the gaseous pollutants and an updated QAPP was submitted to EPA in March 2017. The $PM_{2.5}$ QAPP was approved in July 2012 and is currently under revision. The current QMP was approved in December 2014.
2. DEP Quality Assurance staff complete instrument performance and technical systems audits for all agencies throughout the state.
3. All quality assurance and quality control records must be sent to EPA's Air Quality System (AQS) database quarterly.

40 CFR Part 58, Appendix B, describes quality assurance requirements for Prevention of Significant Deterioration (PSD) air monitoring. Florida's air monitoring network does not include any PSD monitors; therefore, these requirements are not applicable.

40 CFR Part 58, Appendix C, describes general ambient air quality monitoring methodology. Florida's air monitoring network is comprised of both federally and non-federally approved instrumentation. Only data from the federally approved instrumentation can be used for designations. Additionally, all instruments are subjected to the same quality assurance and quality control requirements as those used for designations. Florida's instrumentation meets 40 CFR Part 58, Appendix C requirements and are described in detail in Appendix C of this Plan.

40 CFR Part 58, Appendix D, contains the network design criteria for ambient air quality monitoring. Sites within Florida's air monitoring network are established using these requirements. This annual Air Monitoring Network Plan assesses the network's ability to meet these requirements.

40 CFR Part 58, Appendix E, contains the probe siting criteria for ambient air quality monitoring. To assure that these requirements continue to be met, sites are reviewed annually by DEP audit staff. The results of these reviews are used to determine if the sites meet siting requirements. Any discrepancies are dealt with, at minimum, on an annual basis. A table summarizing the site reviews conducted in the last year, as well as any issues discovered, is provided in Appendix B of this Plan. All of Florida's sites meet 40 CFR Part 58, Appendix E unless explicitly noted in Appendix B of this Plan.

2.2 NETWORK EQUIPMENT UPGRADES AND ENHANCEMENT

Over the last several years, DEP and Florida's local program agencies have made extensive investments in Florida's air monitoring network. These upgrades and enhancements have been implemented to take advantage of software and hardware technological advancements for greater operational efficiency. These equipment upgrades are reflected in the "Network Description and Requirements" and "Network Equipment Evaluation" sections of the plan. The following are major equipment purchases and upgrades accomplished during the last 18 months:

Table 2.1 Equipment Purchases 2015-2017

Agency	Equipment Purchases
DEP	3 Teledyne-API Model 602 Beta Plus Particle Measurement Systems
DEP	5 Thermo TEOM 1405 Continuous Ambient Particulate Monitors
DEP	5 Thermo Partisol 2025i Sequential Air Samplers
DEP	4 ESC 8872 Datalogger
DEP	2 Thermo 43i SO_2 Analyzers
DEP	1 Teledyne-API T700U Dynamic Calibrator
DEP	3 Teledyne-API T750U Dynamic Calibrator
Broward County	4 Thermo Partisol 2025i Sequential Air Samplers
Broward County	1 Thermo 43iTL Trace Level SO_2 Analyzer
Broward County	1 Teledyne-API T200UP NO_2 Analyzer
Broward County	3 E-BAM PM Samplers
Broward County	1 Teledyne-API T701H Zero Air unit
Broward County	1 Teledyne-API T700U Dynamic Calibrator
Broward County	1 Thermo 42i NO_2 Analyzer
Broward County	1 Thermo 42iy-TLE Chemiluminescence NO-NO_y Analyzer
Broward County	1 Thermo 5014i Continuous Ambient Particulate Monitors
Broward County	1 Thermo 49i-PS UV Photometric O_3 Calibrators
Broward County	5 NC0843683 VSCC $PM_{2.5}$ Fractionator
City of Jacksonville	3 Environics 6100 Multi-gas Calibrators
City of Jacksonville	2 Thermo 49i-PS UV Photometric O_3 Calibrators
City of Jacksonville	2 Thermo 49i O_3 Analyzer
City of Jacksonville	3 Thermo 43i SO_2 Analyzers
City of Jacksonville	2 Thermo 42i NO_2 Analyzer
City of Jacksonville	2 Thermo 48i CO Analyzer
City of Jacksonville	3 Thermo TEOM 1405 Continuous Ambient Particulate Monitors
Hillsborough County	3 Thermo Partisol 2025i Sequential Air Samplers
Hillsborough County	2 Thermo 43i SO_2 Analyzers
Hillsborough County	1 Thermo 48i-TLE Trace Level CO Analyzer
Hillsborough County	2 EW 2011 Shelters
Hillsborough County	1 Thermo 49i-PS UV Photometric O_3 Calibrators
Hillsborough County	1 Thermo 49i O_3 Analyzer
Hillsborough County	2 Thermo TEOM 1405 Continuous Ambient Particulate Monitors
Miami-Dade County	1 Teledyne-API T200UP NO2 Analyzer
Miami-Dade County	1 Thermo 43i SO_2 Analyzer
Miami-Dade County	1 Teledyne-API T200
Miami-Dade County	1 Teledyne-API T400
Miami-Dade County	1 Teledyne-API T300E
Miami-Dade County	1 ESC 8872 Datalogger
Miami-Dade County	1 Teledyne-API T701H Zero Air unit
Miami-Dade County	1 Teledyne-API T700U Dynamic Calibrator
Miami-Dade County	3 Thermo Partisol 2025i Sequential Air Samplers

Miami-Dade County	2 Thermo 49i-PS UV Photometric O_3 Calibrators
Miami-Dade County	1 Thermo 49i O_3 Analyzer
Orange County	1 Thermo Environmental Instrument T111
Orange County	1 Thermo Environmental Instrument 146i
Orange County	2 Thermo TEOM 1405 Continuous Ambient Particulate Monitors
Orange County	2 Thermo 49i-PS UV Photometric O_3 Calibrators
Orange County	3 Thermo 48i CO Analyzer
Orange County	2 Thermo Partisol 2025i Sequential Air Samplers
Orange County	1 Thermo 42i NO_2 Analyzer
Orange County	4 ESC 8872 Datalogger
Orange County	1 Thermo 5014i Continuous Ambient Particulate Monitors
Orange County	1 Thermo 49i O_3 Analyzer
Palm Beach County	2 Thermo 5014i Continuous Ambient Particulate Monitors
Palm Beach County	1 Mesa Laboratories - Tetra Cal
Palm Beach County	1 Thermo Environmental Instrument 146i
Palm Beach County	1 Thermo Environmental Instrument T111
Pinellas County	1 Teledyne-API T300U CO Analyzer
Pinellas County	1 Teledyne-API 500U Direct Measure NO_2 Analyzer
Pinellas County	2 Thermo 43i SO_2 Analyzers
Pinellas County	1 Teledyne-API T300 CO Analyzer
Pinellas County	2 Teledyne-API T701H Zero Air unit
Pinellas County	1 Teledyne-API T700U Calibrator
Pinellas County	1 Thermo 42i NO_2 Analyzer
Pinellas County	1 Thermo TEOM 1405 Continuous Ambient Particulate Monitors
Pinellas County	1 Teledyne-API T400 Ozone Analyzer
Pinellas County	1 Teledyne-API Model 602 Beta Plus Particle Measurement Systems
Sarasota County	1 NIST Thermometer
Sarasota County	1 Teledyne-API T700U Dynamic Calibrator
Sarasota County	1 Thermo 49i O_3 Analyzer
Sarasota County	2 Thermo TEOM 1405 Continuous Ambient Particulate Monitors

3.0 AIR MONITORING NETWORK MODIFICATIONS

This Air Monitoring Network Plan lists the known changes to the network that have occurred in the last 18 months and those expected to occur in FY 2018. The discussion within this plan is organized as follows:

- Sites scheduled to start-up, shut-down or relocate in 2016 or 2017;
- Monitors changes and discontinuations scheduled in 2016 or 2017
- Changes to $PM_{2.5}$ FRM operating schedules in 2018;
- Network descriptions organized by pollutant for 2017; and
- Waiver requests.

This plan also provides additional site information in Appendix A, a summary of all site reviews for the network in Appendix B and a complete inventory list in Appendix C. DEP reserves the right to make unplanned network changes in the event a site needs to be closed or relocated due to events beyond our control. These may include, but are not limited to, issues with site access and unpredictable circumstances. Significant network modifications for 2016, 2017 and 2018 are provided in Table 3.1.

Table 3.1 Summary of Network Modifications

AQS Site #	Site Name	Parameter	Modification
12-099-0009	Royal Palm Beach	Ozone, $PM_{2.5}$ and Continuous $PM_{2.5}$	Close: (Relocation to Lamstein Lane: 12-099-0022) 10/2015
12-057-1111	Julian B. Lane Park	Near-road NO_2	Close (Relocation to Munro Street: 12-057-0113): 12/2015
12-073-0013	Miccosukee Greenways	Ozone	Close: 1/2016
12-011-0033	Vista View Park	Toxics	Close: 3/2016
12-011-0033	Coconut Creek Park	Toxics	Close: 3/2016
12-011-8002	Dr. Von Mizell-Eula Johnson State Park	Toxics	Close: 3/2016
12-095-2002	Lake Isle Estates - Winter Park	Toxics	Close 9/2016
12-057-3002	Sydney (NCore Site)	Pb-PM_{10}	Close: 7/2016
12-095-2002	Lake Isle Estates - Winter Park	$PM_{2.5}$ (FRM and TEOM)	Close 9/2016
12-011-0010	Lincoln Park	SO_2, CO, PM_{10} and Toxics	Close Expected: 7/2017
12-103-0018	Azalea Park	PM_{10}, Carbonyls and Metals	Close Expected: 7/2017
12-086-0031	Coral Reef	CO	Close Expected: 7/2017
12-031-0107	Lee High School	CO	Close Expected: 7/2017
12-057-1065	USMC Reserve Center	NO_2	Close Expected: 7/2017
12-057-0081	E.G. Simmons Park	SO_2	Close Expected: 7/2017
12-099-0021	Lantana Preserve	PM_{10}	Close Expected: 7/2017
12-071-0005	Winkler Pump Station	$PM_{2.5}$ (Collocated monitor)	Close Expected: 7/2017
12-105-6006	Baptist Children's Home	$PM_{2.5}$ (Collocated monitor)	Close Expected: 7/2017
12-115-0013	Bee Ridge Park	$PM_{2.5}$ (Collocated monitor)	Close Expected: 7/2017

12-117-1002	Seminole Community College	$PM_{2.5}$ (Collocated monitor)	Close Expected: 7/2017
12-011-0035	Fort Lauderdale Near Road	NO_2, CO, $PM_{2.5}$ Ultra Fine Particle and Black Carbon	Addition: 8/2015
12-095-2002	Lake Isle Estates - Winter Park	$PM_{2.5}$ (FEM)	Addition: 10/2016
12-057-0113	Munro Street	NO_2, CO, $PM_{2.5}$, Black Carbon and Ultra Fine Particle	Addition: 1/2016
12-057-0112	Apollo Beach	SO_2 and $PM_{2.5}$	Addition: 1/2016
12-103-0027	I-275	NO_2, CO, Black Carbon	Addition: 5/2016
12-095-0009	I-4 Near Road	CO, NO_2, $PM_{2.5}$	Addition: 7/2016; Monitoring suspended as of 7/1/2017 until the I-4 construction is completed. Approval granted by Region 4 EPA.
12-001-3012	Paynes Prairie Farm	Ozone and Continuous $PM_{2.5}$	Addition: 12/2016
12-011-2003	Pompano Highland Fire House	PM_{10}	Addition Expected: 4/1/2018
12-011-8002	Dr. Von Mizell-Eula Johnson State Park	SO_2	Addition Expected: 4/1/2018
12-099-2005	Delray Beach	PM_{10}	Addition Expected: 9/2017
12-099-0022	Lamstein Lane	Ozone and $PM_{2.5}$	Addition Expected: 7/2017
12-011-5005	Coconut Creek Park	PM_{10} and $PM_{2.5}$	Relocation: 12/2015
12-059-0001	Bonifay	Ozone and Continuous $PM_{2.5}$	Relocation: 11/2015
12-001-3011	Paynes Prairie	Ozone and Continuous $PM_{2.5}$	Close (Relocation to Paynes Prairie Farm: 12-001-3012): 12/2016
12-103-0012	Woodlawn	PM_{10}	Siting Criteria Waiver
12-099-0021	Lantana Preserve	Ozone	Combined dataset request
12-086-0035	Perimeter Road	Near-road NO_2	Additional information provided to EPA in Appendix A; Addition 12/2016
12-103-0027	Sawgrass Lake Parkway	Near-road NO_2	Additional information provided to EPA in Appendix A; Addition 5/2016
12-017-0006	Crystal River Preserve	SO_2 and Continuous $PM_{2.5}$	Additional information provided to EPA in Appendix A
12-103-0018	Azalea Park	Near-road NO_2	Re-designated as Communitywide Monitor for MSA

3.1 SITE SHUT-DOWNS, SET-UPS AND RELOCATIONS

A. Site Shut-downs

- *Leon County - Miccosukee Greenway: AQS Site # 12-073-0013*

The City of Tallahassee requested the removal of the Miccosukee Greenway site based on plans to beautify the area with trees since it is adjacent to a proposed housing development area. The removal of this site does not meet the requirements for the removal of a SLAMS monitor as described in 40 CFR Part 58.14(c) (1), however, the request to discontinue the monitoring may be approved if the discontinuance does not compromise data collection needed for implementation of a NAAQS and if the requirements of Appendix D of Part 58 continue to be met.

40 CFR Part 58, Appendix D, requires that two ozone monitors operate in the Tallahassee Metropolitan Statistical Area (MSA). The two remaining ozone sites in the Tallahassee MSA, Tallahassee Community College (AQS Site #12-073-0012) and St. Marks Wildlife Refuge (AQS Site #12-129-0001) sites, will continue to meet the monitoring requirements for the network and are representative of the area, as shown in Table 3.2.

The site was removed in February 2016 and temporary approval was granted by EPA on March 16, 2016. DEP requests approval for permanent site closure.

Table 3.2 Tallahassee MSA Ozone Design Values

Ozone Sites in the Tallahassee Area			
Design Value	**073-0012**	**073-0013**	**129-0001**
2015	60	60	59
2014	62	62	62
2013	65	64	63
2012	66	65	65
2011	62	63	63

- *Broward County - Lincoln Park Elementary: AQS Site # 12-011-0010*

DEP is requesting approval to close the Lincoln Park Elementary site (AQS Site #: 12-011-0010) in Broward County due to continuing issues with meeting the siting requirements, per 40 CFR Part 58, Appendix E. The City of Fort Lauderdale has denied requests to remove an oak tree located to the northeast of the site, which is within 10 meters of probe inlets. Additionally, the building is in poor condition and will need to be replaced, however, the City of Fort Lauderdale has not renewed the revocable license agreement with Broward County, despite ongoing discussions since 2010.

The site was originally established as a source for Sulfur Dioxide (SO_2) and Carbon Monoxide (CO). Since the conversion to natural gas and the removal of the stacks at the Florida Power and Light, SO_2 concentrations have dropped considerably. EPA was notified 3-years ago regarding the site closure and were amenable to the idea. In accordance with EPA's suggestion, the SO_2 monitor will be relocated to the Dr. Von D. Mizell-Eula Johnson State Park site, AQS Site # 12-011-8002. The Lincoln Park Elementary site is scheduled to close on 7/1/2017. The 1-hour SO_2, 1-hour CO and 8-hour CO concentrations are illustrated in Figures 3.1, 3.2 and 3.3, respectively.

Figure 3.1 Daily Maximum 1-Hr SO_2 Concentrations for Lincoln Elementary

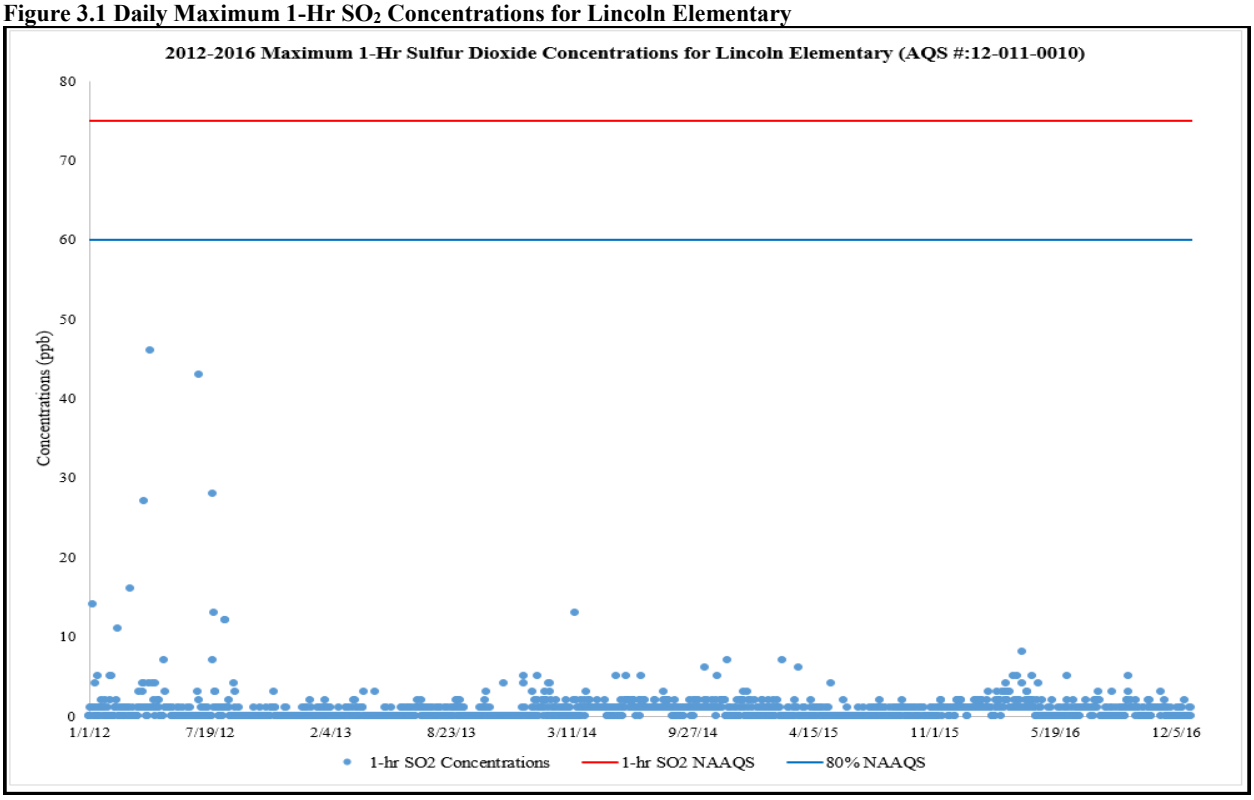


Figure 3.2 Daily Maximum 1-Hr CO Concentrations for Lincoln Elementary

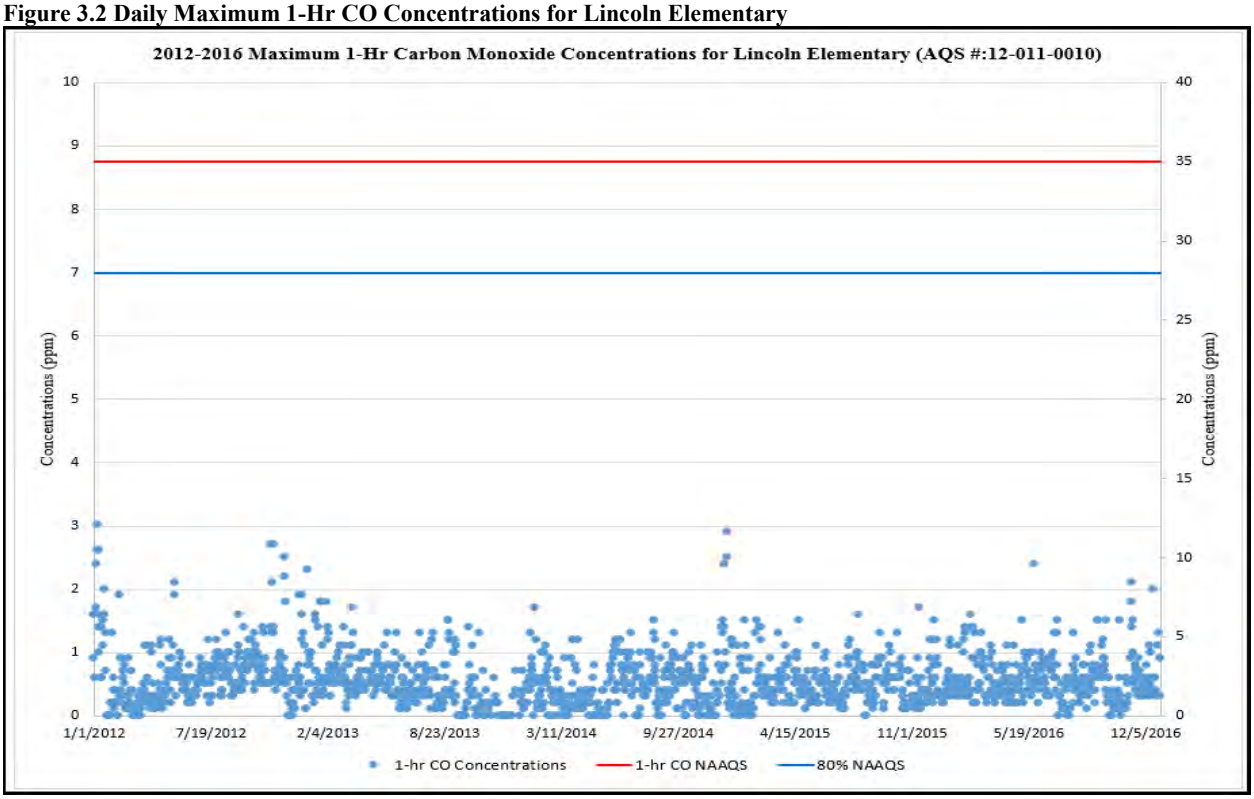
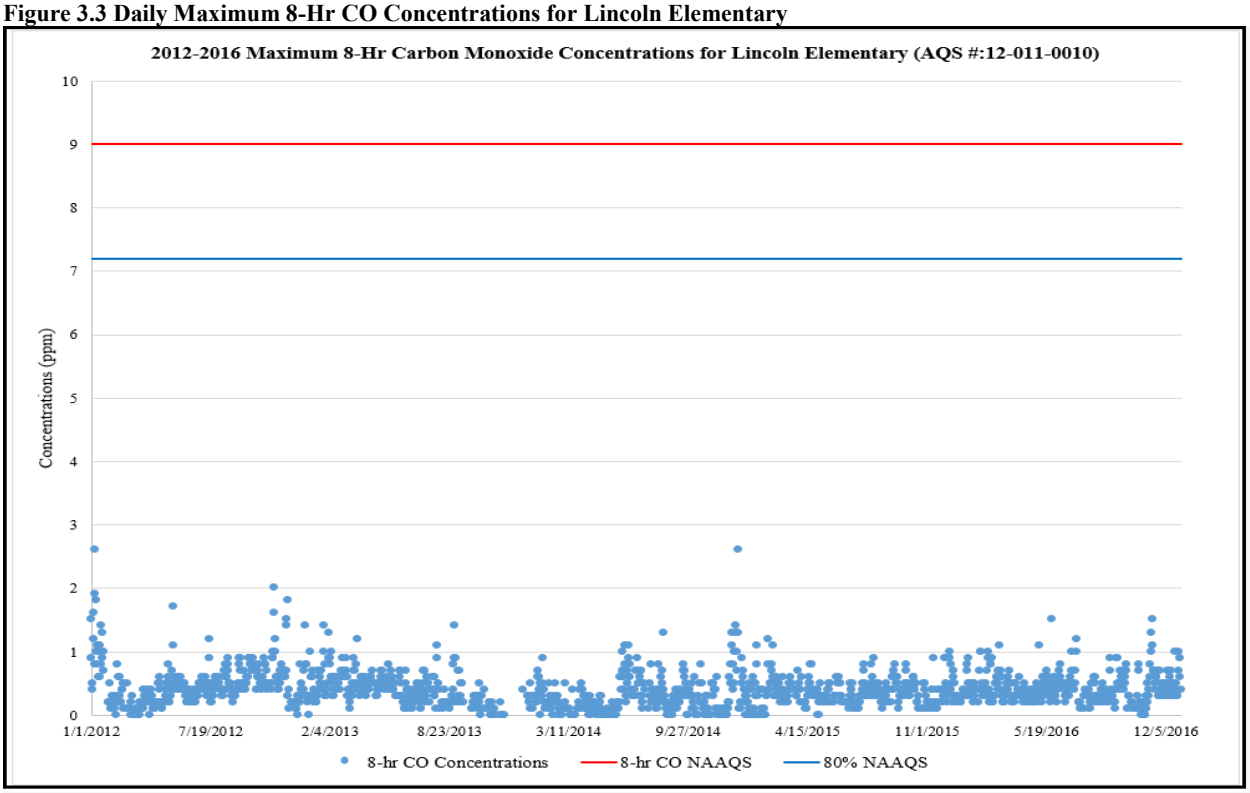


Figure 3.3 Daily Maximum 8-Hr CO Concentrations for Lincoln Elementary



- *City of Jacksonville – Lee High School: AQS Site # 12-031-0107*

In accordance with 40 CFR 58 Subpart C 58.20 and EPA's recommendation, DEP plans to remove the special purpose carbon monoxide (CO) monitor located at Lee High School in the City of Jacksonville in July 2017. This monitor consistently measures low concentrations well below the NAAQS and is located within an attainment area, which is expected to remain in attainment. Additionally, the spatial coverage is maintained by three other CO monitors within the City of Jacksonville, namely Southside Playground (AQS Site # 12-031-0080), Rosselle (AQS Site # 12-031-0084) and Pepsi Place (AQS Site # 12-031-0108). Removal of this monitor will allow more flexibility of resources and more emphasis on other criteria pollutants. The daily maximum 1-hour concentrations over the last five years are shown in Figure 3.4. Additionally, the 8-hour CO maximum concentrations are plotted in Figure 3.5 and clearly illustrates that this monitor has not and is unlikely to ever measure violations of the CO NAAQS.

Figure 3.4 Daily Maximum 1-Hr CO Concentrations for Lee High School

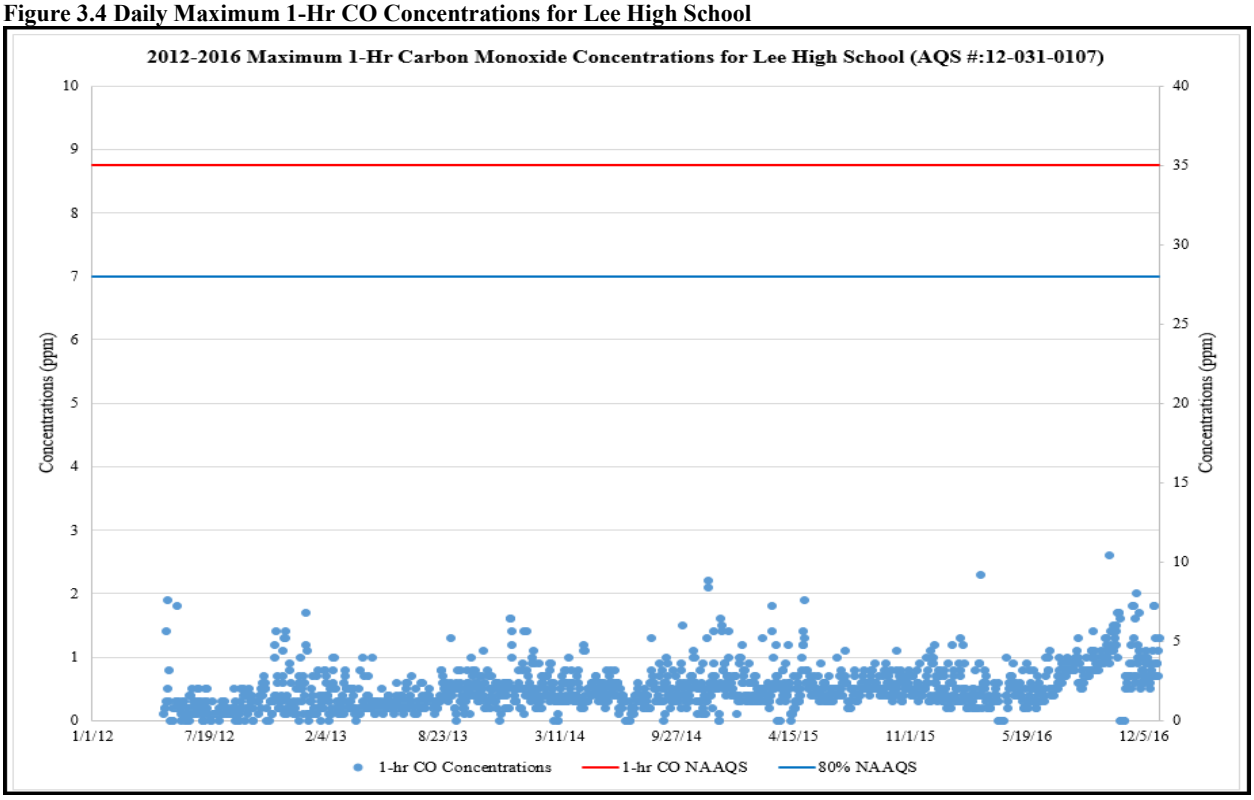
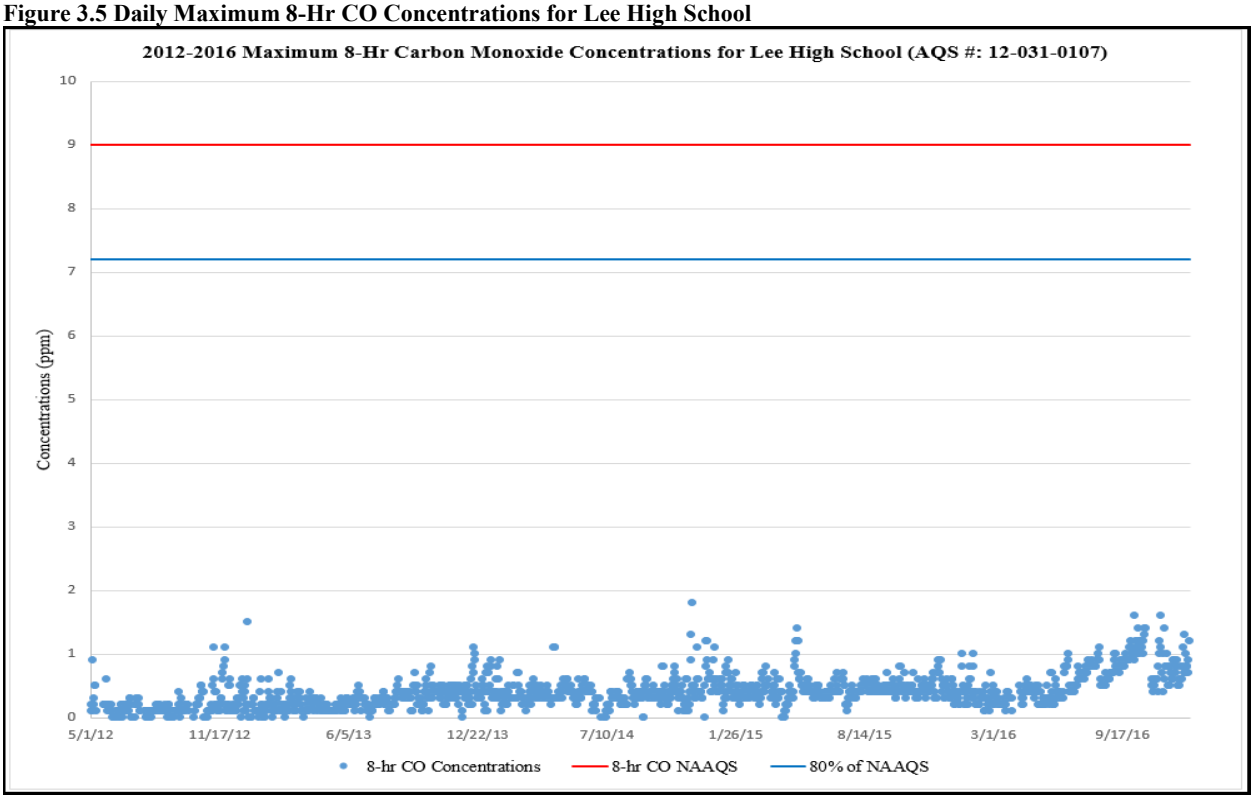


Figure 3.5 Daily Maximum 8-Hr CO Concentrations for Lee High School



- *Miami-Dade – Coral Reef: AQS Site # 12-086-0031*

DEP plans to remove the carbon monoxide (CO) monitoring site located at Coral Reef in Miami-Dade County in July 2017. This single pollutant monitoring site meets several scenarios defined in EPA's Network Assessment Guidance and 40 CFR 58.14(c), where the state or local agency can confidently request approval for the shutdown of a SLAMS monitor. These include:

- The monitor showed attainment during the last five years;
- The probability is less than 10% that this monitor will exceed 80% of the applicable NAAQS during the next three years based on the concentrations, trends, and variability observed in the past;
- The monitor is not specifically required by an attainment plan or maintenance plan, as it is an attainment area which is expected to remain in attainment. Additionally, there are two other CO monitors (Kendall: 12-086-0034 and Lab Annex: 12-086-4002) within the county, so the spatial coverage is maintained;
- The monitor has not measured violations of the CO NAAQS in the last five years;
- This site does not currently meet siting criteria and could be determined by EPA not to be comparable to the NAAQS, and thus may be recommended for removal.

The removal of this monitor will allow more flexibility of resources and for greater emphasis to be placed on criteria pollutants at multi-pollutant sites. The daily maximum 1-hour and 8-hour concentrations over the last five years are shown in Figures 3.6 and 3.7, respectively. These data plots illustrate that this monitor has not and is unlikely to ever measure violations of the CO NAAQS and concentrations are well below 80% of the NAAQS.

Figure 3.6 Daily Maximum 1-Hr CO Concentrations for Coral Reef

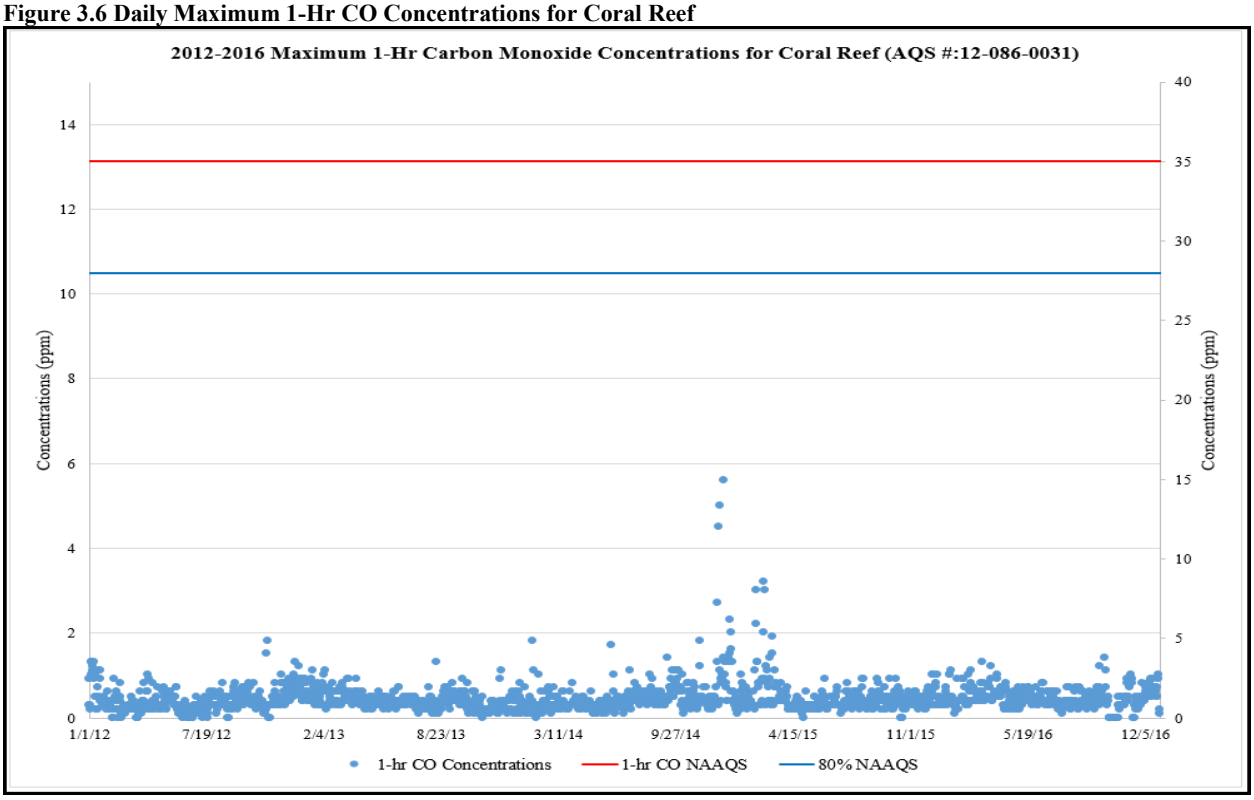
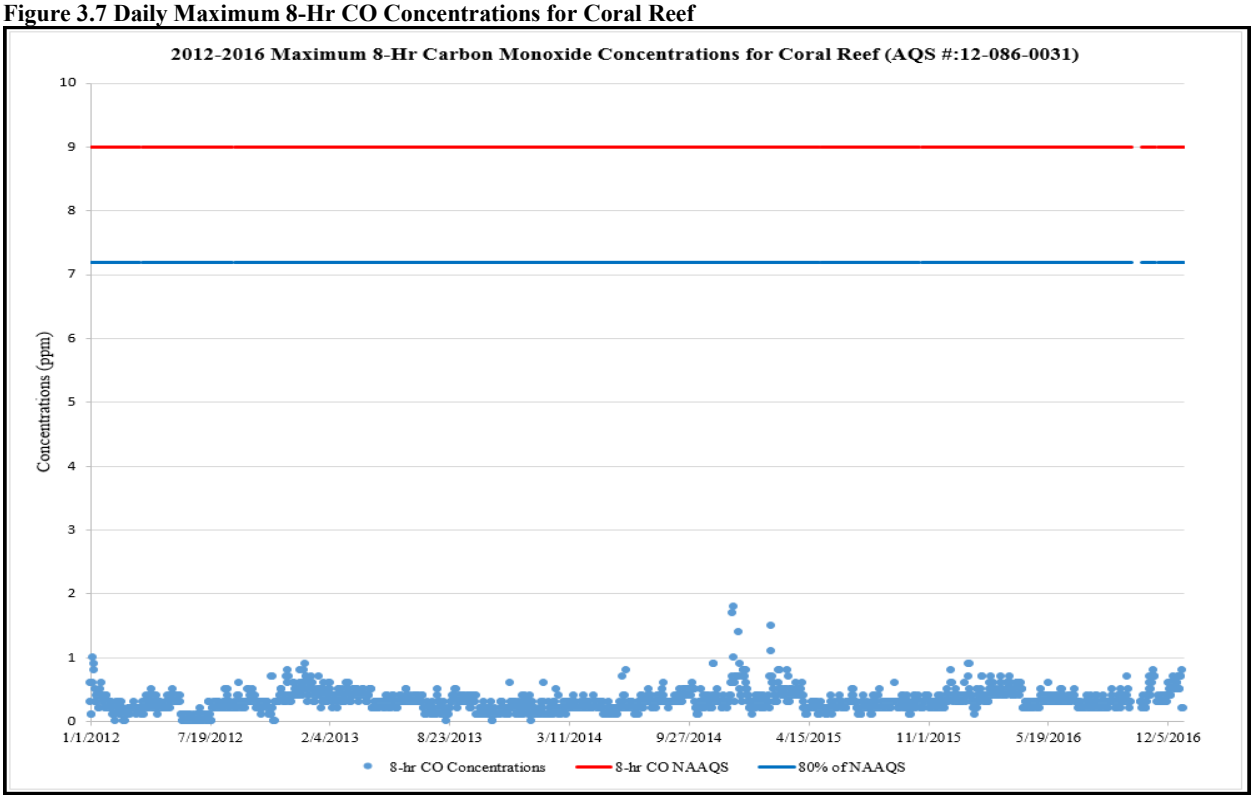


Figure 3.7 Daily Maximum 8-Hr CO Concentrations for Coral Reef



B. Site Set-ups

- *Miami-Dade and Pinellas County - Perimeter Road and Sawgrass Lake Parkway (NO_2 Near-road) Sites*

For a Core Based Statistical Area (CBSA) with a population over 2.5 million, EPA prescribes, in the Near-road NO_2 Monitoring Technical Assistance Document, that the second near-road NO_2 monitoring site should differ from the initial near-road NO_2 monitoring site by one or more factors affecting traffic emissions and/or pollutant transport. These include fleet mix, congestion patterns, terrain, geographic area within the CBSA and route designation. EPA also recommends that the second site represent as many different characteristics without sacrificing the objective of measuring relative peak NO_2 concentrations in the near-road environment. The data gathered to select the initial near-road NO_2 monitoring site is useful for determining placement of the secondary site.

The carbon monoxide and $PM_{2.5}$ monitoring requirement for near-road NO_2 sites are met for each CBSA. Therefore, the Perimeter Road site will only monitor NO_2 concentrations and the Sawgrass Lake Parkway will not be required to monitor $PM_{2.5}$ concentrations. Table 3.3 provides a summarized evaluation of secondary NO_2 near-road sites in Miami-Dade and Pinellas Counties. Additional information and figures are provided in Appendix A.

Table 3.3 NO_2 Near-road Sites for Miami-Dade and Pinellas Counties

	Perimeter Road	**Sawgrass Lake Parkway**
AQS Site #	12-086-0035	12-103-0027
City (CBSA)	Miami	Largo
State of Purpose	Needed by Regulation	Needed by Regulation
Site Review Date	12/6/2016	7/13/2016
County	Miami-Dade	Pinellas
Location Latitude	25.785466 N	27.83440925 N
Location Longitude	-80.284325 W	-82.66525125 W
Address	1395 NW 57th Avenue	6853 25th Street N
Target	Bridge No. 870135 to Bridge number 870138 (FDOT site #872198)	I-275, south of Gandy Blvd.
AADT	197,000 (FDOT 2013)[1]	141,000 (FDOT 2012)[1]
Heavy Duty AADT	58,035 (FDOT 2013)[1]	91,650 (FDOT 2012)[1]
FEAADT	248,534	223,485
NO_2	T-200UP, Photolytic	T500U, Direct Measure
Objective	Mobile Source	Mobile Source
Spatial Scale	Micro	Micro
Operating Schedule	Continuous	Continuous
Distance to Traffic Lane	23.7 m to traffic lane	25.9 m to traffic lane
Access	Unlimited	Unlimited
Owner of Land	FDOT-MDX	SWFMD and Pinellas County
Other Monitored Parameters	N/A	CO (API T300U) and Black Carbon (API 633)
Inlet Height	4.8 meters	4 meters
Comments	5 trees with yellow bands in pictures were removed –no obstructions	No obstructions; Distance to nearest obstruction is 19.8 meters.

[1]Annual Average Daily Traffic (AADT) data obtained from the Florida Department of Transportation (FDOT) website at http://www2.dot.state.fl.us/FloridaTrafficOnline/viewer.html.

- *Citrus County - Crystal River Preserve (SO_2) Site*

In Florida's 2013 Annual Air Monitoring Network Plan three additional SO_2 sites were identified in response to a change in the SO_2 National Ambient Air Quality Standards (NAAQS). SO_2 monitors were added to existing sites in Polk and Manatee counties, and a new site was established at the Crystal River Preserve State Park in Citrus County. All sites were operational prior to the end of the 2013 calendar year, meeting the January 1, 2014 deadline.

The new standard stated that ambient SO_2 monitoring is required for CBSAs with a Population Weighted Emission Index (PWEI) above 5,000. A monitor is required when the PWEI is above 5,000 and two monitors are required when the PWEI is above 100,000. The PWEI for Citrus County was calculated at 9,456 therefore requiring an SO_2 monitor for that county.

In Citrus County, there is one dominant SO_2 source, the Duke Energy Power Plant. The facility conducted on-site monitoring for many years, and prior to the change in the SO_2 NAAQS, the concentrations were below the standard. This existing monitoring indicated that concentrations levels would exceed the new NAAQS, so the Division of Air Resource Management (DARM) proceeded to locate an ambient air quality SO_2 monitor appropriate for source monitoring.

When the area was modeled, the local wind history was not available and the modeling was completed with wind datasets from Tampa and Hernando Counties. The wind has a significant role in ambient air concentrations and, as neither of the datasets were representative of the northern Gulf of Mexico coast, the modeling was not the primary guide to locating the site.

The determining factor in the placement of the Crystal River Preserve site (AQS Site # 12-017-0006) was the location of a previous monitor on the property that reported elevated SO_2 concentrations. The Crystal River Preserve site is located 203 meters southwest of the preexisting monitor, has an inlet height of 3.65 meters and meets the requirements of 40 CFR, Part 58, Appendices A, C, D and E. Additional site information is provided below in Table 3.4 and in Appendix A.

Table 3.4 Crystal River Preserve SO_2 - AQS Site # 12-017-0006

	Crystal River Preserve
AQS Site #	12-017-0006
City (CBSA)	Homosassa Springs
Site Name	Crystal River Preserve
Statement of Purpose	Needed by Regulation
Site Review Date	11/14/2016
County	Citrus
Location Latitude	28.9586 N
Location Longitude	-82.643159 W
Address	13450 W. Power Line Road
Objective	Industrial Source
Pollutants Monitored	SO_2 and $PM_{2.5}$
Sampling and Analysis Method	SO_2: Thermo 43i, Pulsed Fluorescence; $PM_{2.5:}$ TEOM 1400AB, Gravimetric Analysis
Spatial Scale	Neighborhood
Operating Schedule	Continuous
Network Type	SO_2: SLAMS; $PM_{2.5:}$ SPM
Distance from Inlet to nearest:	Tree Dripline = 20 m Road = 50 m Wall = NA
Access	Limited to park hours of operation
Owner of Land	FDEP (Florida State Park)
Inlet Height	3.65 meters
Comments	No structures influence the site

- *Hillsborough County – Apollo Beach (SO_2) Site*

The Apollo Beach area has a history of high SO_2 concentrations, so to support the new SO_2 NAAQS the Apollo Beach site (AQS Site # 12-057-0112) was established. The SO_2 monitor located at the site will replace the SO_2 monitor at the E.G. Simmons Park site, AQS Site # 12-057-0081. Additional site information is provided below in Table 3.5 and in Appendix A.

Table 3.5 Apollo Beach - AQS Site #12-057-0112

	Apollo Beach
AQS Site #	12-057-0112
City (CBSA)	Tampa-St. Petersburg-Clearwater
Site Name	Apollo Beach
Statement of Purpose	Source Monitoring
Site Review Date	7/21/2016
County	Hillsborough
Location Latitude	27.779444
Location Longitude	-82.419722
Address	6506 Dolphin Cove Drive
Objective	Source
Pollutants Monitored	SO_2 and Continuous $PM_{2.5}$
Sampling and Analysis Method	SO_2: Thermo 43i, Pulsed Fluorescence; Continuous $PM_{2.5:}$ TEOM 1400AB, Gravimetric Analysis
Spatial Scale	Neighborhood
Operating Schedule	SO_2 and Continuous $PM_{2.5:}$ Continuous
Network Type	SPM
Distance from Inlet to nearest:	Wall/Inlet = NA Tree Dripline = 10.7 meters Road = 36.3 meters (SO_2) Road = 39 meters ($PM_{2.5}$)
Access	Unlimited
Inlet Height	4.6 meters
Comments	No structures influence the site. Distance to nearest obstruction/tree is 10.7 meters.

C. Site Relocations

- *Hillsborough County – Munro Street (NO2 Near-road) Site*

The Julian B. Lane Park near-road NO_2 site in Tampa (AQS Site # 12-057-1111) was relocated because the City of Tampa announced plans to build a road on the property and requested the site's removal. The site was relocated 264 yards west of the original site on Munro Street and given a new AQS Site identification number: 12-057-0113. The new location is within close proximity of the original site and allows for continued monitoring of the same segment of I-275. DEP requests that the datasets for these sites be combined for data completeness, as a comparison of the concentrations demonstrate it is appropriate, see Appendix A, Section 4, Figures 4.51 and 4.52. Table 3.6 provides a summarized evaluation of the Munro Street NO_2 near-road site. Supplemental graphs and figures pertaining to the relocation are provided in Appendix A.

Table 3.6 Munro Street - AQS Site # 12-057-0113

	Munro Street Near-road Site
AQS Site #	12-057-0113
City (CBSA)	Tampa
Site Name	Munro Street
Statement of Purpose	Needed by Regulation
Site Review Date	11/16/2016
County	Hillsborough
Location Latitude	27.95555 N
Location Longitude	-82.46714 W
Address	1497 N Munro Street
AADT	190,500 (FDOT-2011)[1]
Heavy Duty AADT	15,240 (FDOT-2011) [1]
FEAADT	327,660
NO_2	TAPI T200UP; Photolytic
Objective	Mobile Source
Spatial Scale	Micro
Operating Schedule	Continuous
Distance to Traffic Lane	40 meters
Access	Unlimited
Owner of Land	City of Tampa
Other Monitored Parameters	Continuous $PM_{2.5}$ (Thermo 5014i FEM), CO (trace level), Black Carbon, Ultra Fine Particle and Wind at 5 and 10 meters
Inlet Height	5.3 meters
Comments	Interstate is East-West oriented on this segment, site is south of the road. The road surface is ~16' above grade with an 8' sound barrier. Distance to nearest obstruction and tree are 30 and 12 meters, respectively.

[1] Annual Average Daily Traffic (AADT) data obtained from the Florida Department of Transportation (FDOT) website at http://www2.dot.state.fl.us/FloridaTrafficOnline/viewer.html

- *Palm Beach County – Lantana Preserve Site*

The AG Holley site (AQS Site #12-099-0020) located at the AG Holley State Hospital in Lantana was relocated when the property was sold by the State. The replacement site is also located in Lantana at the Lantana Preserve with the new AQS Site identification number: 12-099-0021. The distance between the sites is approximately 0.25 kilometers so it is representative of the same air mass. DEP requests that the ozone datasets for these sites be combined for data completeness and attainment designations, as a comparison of the concentrations demonstrates it is appropriate, see Appendix A, Section 4, Figures 4.1- 4.4. The PM_{10} monitor at the site will be relocated to the Delray Beach site (12-099-2005) as this site does not meet the siting criteria for particulate monitoring. Additional information is provided below in Table 3.7 and in Appendix A.

Table 3.7 Lantana Preserve - AQS Site # 12-099-0021

	Lantana Preserve
AQS Site #	12-099-0021
City (CBSA)	Lantana
Site Name	Lantana Preserve
Statement of Purpose	Needed by Regulation
Site Review Date	11/28/2016
County	Palm Beach
Location Latitude	26.5938083 N
Location Longitude	-80.0584917 W
Address	968 N 8th Street
Objective	Population Exposure
Pollutants Monitored	Ozone, NO_2 and PM_{10}
Sampling and Analysis Method	Ozone: Thermo 49i, UV Photometry; NO_2: API T200, Gas Phase Chemiluminescence; PM_{10}: BAM 1020, Beta Attenuation
Spatial Scale	Ozone: Urban; NO_2 and PM_{10}: Neighborhood
Operating Schedule	Continuous
Network Type	Ozone: SLAMS; NO_2: SPM; PM_{10}: SLAMS
Distance from Inlet to nearest:	Tree Dripline = 11.3 meters Road = 30.5 meters Wall = NA
Access	Unlimited
Owner of Land	City of Lantana
Inlet Height	Ozone: 4.15 meters; NO_2: 4.27 meters; PM_{10}: 4.9 meters
Comments	No structures influence the site. Siting criteria for particulate monitoring not met – PM_{10} monitor will relocate to the Delray Beach site.

- *Palm Beach County – Lamstein Lane Site*

The Royal Palm Beach site (AQS Site #12-099-0009) was removed in October 2015 upon request from the property owner, the City of Royal Palm Beach. A new site at Lamstein Lane, AQS Site # 12-099-0022, will be established to maintain monitoring in Royal Palm Beach and preserve data trends for ozone in Palm Beach County. DEP requests that the datasets for these sites be combined for data completeness. A waiver from NAAQS comparison for the $PM_{2.5}$ monitor (BAM 1020) was approved as part of the 2015 Annual Air Monitoring Plan. Additional information is provided below in Table 3.8 and in Appendix A.

Table 3.8 Lamstein Lane - AQS Site #12-099-0022

	Lamstein Lane
AQS Site #	12-099-0022
City (CBSA)	Miami-Fort Lauderdale-Pompano Beach
Statement of Purpose	Used for AQI for dispersed population
Site Review Date	11/29/2016
County	Palm Beach
Location Latitude	26.687501 N
Location Longitude	-80.219685 W
Address	151 Lamstein Lane
Objective	Population Oriented
Pollutants Monitored	Ozone and $PM_{2.5}$
Sampling and Analysis Method	Ozone:49i UV Photometry; $PM_{2.5:}$ TEI 2025, Gravimetric Analysis; $PM_{2.5:}$ continuous BAM 1020, Beta Analysis
Spatial Scale	Neighborhood
Operating Schedule	Ozone and Continuous $PM_{2.5}$: Continuous; $PM_{2.5:}$ TEI 2025: Daily
Network Type	Ozone and $PM_{2.5:}$ SLAMS; Continuous $PM_{2.5}$: SPM
Expected Distance from Inlet to nearest:	Wall/Inlet = NA Tree Dripline = 62 meters Road = 40 meters AADT < 12,000
Access	Unlimited
Expected Inlet Height	3 meters
Comments	No structures influence the site; 5 km SSE from Royal Palm Beach site

- *Holmes County – Bonifay Site*

The Tri-County Airport underwent an expansion and requested the Bonifay Site, AQS Site # 12-059-0004, be relocated to another part of their property. On November 5, 2015, the shelter was relocated 377 meters south of the original location to comply with the property owners' request. This background site remains on the same property and is representative of the same air mass. Site Additional information is provided below in Table 3.9 and in Appendix A.

Table 3.9 Bonifay - AQS # 12-059-0004

	Bonifay
AQS Site #	12-059-0004
City (CBSA)	Bonifay (Not in a CBSA)
Statement of Purpose	Background Monitoring
Site Review Date	11/1/2016
County	Holmes
Location Latitude	30.848611 N
Location Longitude	-85.603889 W
Address	1976 Tri County Airport Rd
Objective	Background
Pollutants Monitored	Ozone and Continuous $PM_{2.5}$
Sampling and Analysis Method	Ozone: TEI 49i, UV Photometry; Continuous $PM_{2.5}$: TEOM 1400, Gravimetric Analysis
Spatial Scale	Ozone: Regional; Continuous $PM_{2.5}$: Neighborhood
Operating Schedule	Ozone and Continuous $PM_{2.5}$: Continuous
Network Type	Ozone and $PM_{2.5:}$ SPM
Distance from Inlet to nearest:	Wall/Inlet = NA Tree Dripline = 21 meters Road = 13 meters
Access	Unlimited
Inlet Height	Ozone: 4.3 meters; Continuous $PM_{2.5}$: 5.02 meters
Comments	No structures influence the site

- *Broward County – Coconut Creek Park Site*

In July 2012, the City of Coconut Creek requested that the Coconut Creek Park site, AQS Site # 12-011-5005 be relocated to another area of the park due to impending renovations. Ambient monitoring was suspended on July 24, 2012 while a new platform was constructed at the new location. The platform was completed and passed inspection by the City of Coconut Creek building inspector on October 14, 2015. The $PM_{2.5}$ monitor was installed on November 24, 2015, with normal operations resuming on December 1, 2015. The PM_{10} monitoring operations resumed in March 2016. Additional information is provided below in Table 3.10 and in Appendix A.

Table 3.10 Coconut Creek Park - AQS Site # 12-011-5005

	Coconut Creek Park Site
AQS Site #	12-011-5005
City (CBSA)	Coconut Creek (Miami-Fort Lauderdale-Pompano Beach)
Site Name	Coconut Creek Park
Statement of Purpose	Source Monitoring
Site Review Date	12/15/2015
County	Broward
Location Latitude	26.294167 N
Location Longitude	-80.176389 W
Address	4010 Winston Park Blvd
Objective	Source: North Regional Resource Recovery Plant, a municipal incinerator, 1 mile southeast of the site
Pollutants Monitored	$PM_{2.5,}$ PM_{10} and Toxics
Sampling and Analysis Method	$PM_{2.5:}$ TEI 2025i, Gravimetric Analysis; PM_{10}: Tisch Hi-Vol, Gravimetric Analysis
Spatial Scale	Neighborhood
Operating Schedule	$PM_{2.5}$: Daily and PM_{10}: 1/6 Day
Network Type	SLAMS
Distance from Inlet to nearest:	Wall/Inlet = NA Tree Dripline = 11 meters Road = 35 meters
Access	Unlimited
Inlet Height	$PM_{2.5}$: 3.2 meters; PM_{10}: 2.7 meters
Comments	No structures influence the site

- *Alachua County – Paynes Prairie Farm Site*

The Paynes Prairie Site, AQS Site # 12-001-3011, was relocated in December 2016 to the Paynes Prairie Farm due to siting issues and limitations imposed by property owners. The Paynes Prairie Farm site is approximately 2.31 miles northwest of the original site within the State Park and was assigned a new AQS Site identification number (AQS Site # 12-001-3012) due to the change in address. DEP requests that the datasets for these sites be combined for data completeness and attainment designations, if the concentrations demonstrate it is appropriate. Additional information is provided below in Table 3.11 and in Appendix A.

Table 3.11 Paynes Prairie Farm - AQS Site # 12-001-3012

	Paynes Prairie Farm Site
AQS Site #	12-001-3012
City (CBSA)	Micanopy
Site Name	Paynes Prairie Farm
Statement of Purpose	Needed by Regulation
Site Review Date	1/4/2017
County	Alachua
Location Latitude	29.56615 N
Location Longitude	-82.266066 W
Address	9300 CR 234
Objective	High Concentration
Pollutants Monitored	Ozone and Continuous $PM_{2.5}$
Sampling and Analysis Method	Ozone: TEI 49i, Continuous $PM_{2.5:}$ TEOM 1400AB, Gravimetric Analysis
Spatial Scale	Ozone: Urban; Continuous $PM_{2.5}$: Neighborhood
Operating Schedule	Ozone and Continuous $PM_{2.5}$: Continuous
Network Type	Ozone: SLAMS and Continuous $PM_{2.5}$: SPM
Distance from Inlet to nearest:	Wall/Inlet = NA Tree Dripline = 35 meters Road = 60 meters
Access	Unlimited
Inlet Height	Ozone: 4 meters; Continuous $PM_{2.5}$: 4.8 meters
Comments	No structures influence the site

3.2 MONITOR MODIFICATIONS AND DISCONTINUATIONS

A. Monitor Closures, Additions and Re-designations

Throughout the last 18 months, there have been several monitor changes, including additions, closures and relocations. Additionally, DEP requests approval to remove 5 $PM_{2.5}$ collocated monitors since the collocation requirement is met by over double the monitors and resources could be used more efficiently elsewhere. A summary of these changes is noted in Table 3.12.

Table 3.12 PQAO Monitor Modifications and Discontinuations

AQS Site #	Site Name	Monitor Type	Pollutant	Modification	Comments
12-011-0033	Vista View Park	NON-REG	Toxics	CLOSE	GC/MS Analysis machine malfunctioned in 4/2016 and the voluntary VOC monitoring will only be at site 12-011-0034 due to budgetary constraints; EPA was notified. SD 3/31/2016.
12-011-0035	Fort Lauderdale Near Road	SLAMS	BC	ADD	SU EXPECTED 3/1/2017
		SLAMS	Ultra-Fine $PM_{2.5}$	ADD	SU EXPECTED 4/1/2017
12-011-5005	Coconut Creek	NON-REG	Toxics	CLOSE	GC/MS Analysis machine malfunctioned in 4/2016 and the voluntary VOC monitoring will only be at site 12-011-0034 due to budgetary constraints; EPA was notified. SD 3/31/2016.
12-011-8002	Dr. Von Mizell-Eula Johnson State Park	NON-REG	Toxics	CLOSE	GC/MS Analysis machine malfunctioned in 4/2016 and the voluntary VOC monitoring will only be at site 12-011-0034 due to budgetary constraints; EPA was notified. SD 3/31/2016.
		SLAMS	SO_2	ADD	SU EXPECTED 8/1/2017
12-057-0081	E.G. Simmons Park	SLAMS	SO_2	CLOSE/RELOCATION	Monitor meets all requirements for removal per Section 4.1 of the Ambient Air Monitoring Network Assessment Guidance (AAMNAG) and will be relocated to Apollo Beach site (12-057-0112) to monitor emissions from the TECO Big Bend plant.
12-057-1065	USMC Reserve Center	SLAMS	NO_2	CLOSE	Monitor meets all requirements for removal per Section 4.1 of the Ambient Air Monitoring Network Assessment Guidance (AAMNAG). Azalea Park site re-designated to be the NO_2 community-wide

					monitor for the MSA. Expected SD 7/1/2017.
12-057-3002	Sydney (NCore Site)	SLAMS	Pb-PM_{10}	CLOSE	Analysis of the filters ended 7/1/2016 since the requirement to monitor Pb-PM_{10} was removed from 40 CFR 58, Appendix D, Section 4.5(b) and 4.5(c) on 3/28/2016.
12-071-0005	Winkler Pump Station	SLAMS	$PM_{2.5}$	CLOSE	Collocated monitor; Expected SD 07/1/2017. Monitor meets all requirements for removal per Section 4.1 of the AAMNAG. Collocation requirement still met.
12-095-2002	Lake Isle Estates - Winter Park	SLAMS	$PM_{2.5}$	CLOSE	Monitor replaced by FEM 5014i on 10/1/2016. SD 09/30/2016
		SLAMS	$PM_{2.5}$	CLOSE	Collocated monitor; SD 09/30/2016. Collocation requirement still met.
		SPM	$PM_{2.5}$	CLOSE	Monitor was used for AQI; 5014i data used instead. SD 09/21/2016
		NON-REG	Toxics	CLOSE	Discontinuation due to budgetary constraints. Closure noted in 105 Grant and EPA notified; SD 9/30/2016
		SLAMS	$PM_{2.5}$	ADD	SU 10/1/2016; FEM
12-095-0009	I-4 Near Road	SLAMS	NO_2	TEMPORARY CLOSE	Monitoring suspended as of 7/1/2017 until the I-4 construction is completed. Data is not representative of ambient air. Approval granted by Region 4 EPA and correspondence is provided in Section 5.
		SLAMS	CO	TEMPORARY CLOSE	Monitoring suspended as of 7/1/2017 until the I-4 construction is completed. Data is not representative of ambient air. Approval granted by Region 4 EPA and correspondence is provided in Section 5.
		SLAMS	$PM_{2.5}$	TEMPORARY CLOSE	Monitoring suspended as of 7/1/2017 until the I-4 construction is completed. Data is not representative of ambient air. Approval granted by Region 4 EPA and correspondence is provided in Section 5.

12-103-0018	Azalea Park	SLAMS	$PM_{2.5}$	CLOSE	Collocated monitor; Expected SD 07/1/2017. Monitor meets all requirements for removal per Section 4.1 of the AAMNAG. Collocation requirement still met.
		SLAMS	PM_{10}	CLOSE	Monitor meets all requirements for removal per Section 4.1 of the AAMNAG.
		SPM	Carbonyls and Metals	CLOSE	These are non-regulatory special purpose monitors based on PM_{10} that will be discontinued. Expected SD 07/1/2017
		SLAMS	NO_2	RE-DESIGNATIO N	Designated as the Community-Wide NO_2 Monitor to continue meeting monitoring requirements for the MSA.
12-103-5002	John Chesnut Sr. Park - East Lake	SLAMS	PM_{10}	CLOSE	Monitor meets all requirements for removal per Section 4.1 of the AAMNAG.
12-105-6006	Baptist Children's Home	SLAMS	$PM_{2.5}$	CLOSE	Collocated monitor; Expected SD 07/1/2017. Monitor meets all requirements for removal per Section 4.1 of the AAMNAG. Collocation requirement still met.
12-117-1002	Seminole Community College	SLAMS	$PM_{2.5}$	CLOSE	Collocated monitor; Expected SD 07/1/2017. Monitor meets all requirements for removal per Section 4.1 of the AAMNAG. Collocation requirement still met.
12-115-0013	Bee Ridge Park	SLAMS	$PM_{2.5}$	CLOSE	Collocated monitor; Expected SD 07/1/2017. Monitor meets all requirements for removal per Section 4.1 of the AAMNAG. Collocation requirement still met.

B. Monitor Discontinuations and Reassignments (SLAMS to SPM)

DEP is requesting approval, from the Regional Administrator, to discontinue and reassign (from SLAMS to SPM) several monitors in the monitoring network. Using EPA's Ambient Air Monitoring Network Assessment Guidance (AAMNAG) document, DEP completed an analysis of Florida's SLAMS network. All monitors considered for reassignment or discontinuation were in attainment areas and are expected to remain in attainment. Additionally, these monitors meet the criteria of 40 CFR Part 58.14(c) and Section 4.1 of the Network Assessment Guidance. The SPM monitors will continue to meet the quality assurance requirements stipulated in 40 CFR Part 58, Appendix A and will maintain spatial coverage for Florida. These changes will provide greater flexibility when unforeseen network changes are needed due to events beyond our control.

The list below also consists of two Thermo Tapered Element Oscillating Microbalance (TEOM) monitors within the network, which were not configured as FEMs (i.e. not comparable to the NAAQS), classified as SLAMS monitors in AQS instead of SPM. DEP would like to correct this error to ensure that the AQS database is correct and contains the most current instrument information. The evaluation summary of these monitors is provided below in Table 3.13.

Table 3.13 Monitor Discontinuations and Reassignments

AQS Site #	Site Name	Type	Pollutant	Showed Attainment 2012-2016	Probability <10% Monitor Will Exceed 80% of NAAQS	Monitor Specifically Required by Attainment or Maintenance Plan	Last Monitor in Nonattainment or Maintenance Area	CFR Required	Modification	Comments
12-009-0007	Melbourne	SLAMS	$PM_{2.5}$	Yes	N/A	No	No	No	SLAMS to SPM	This is a TEOM monitor that is not comparable to the NAAQS and AQS has the incorrect designation
12-105-6006	Baptist Children's Home	SLAMS	$PM_{2.5}$	Yes	N/A	No	No	No	SLAMS to SPM	This is a TEOM monitor that is not comparable to the NAAQS and AQS has the incorrect designation
12-031-0080	Southside Playground	SLAMS	CO	Yes	Yes	No	No	No	SLAMS to SPM	See calculation results in Table 3.14
12-095-2002	Lake Isle Estates - Winter Park	SLAMS	CO	Yes	Yes	No	No	No	SLAMS to SPM	See calculation results in Table 3.14
12-086-0034	Kendall	SLAMS	CO	Yes	Yes	No	No	No	SLAMS to SPM	See calculation results in Table 3.14

12-057-0081	E.G. Simmons Park	SLAMS	SO_2	Yes	Yes	No	No	No	CLOSE	See calculation results in Table 3.14
12-057-1065	USMC Reserve Center	SLAMS	NO_2	Yes	Yes	No	No	No	CLOSE	See calculation results in Table 3.14
12-103-0018	Azalea Park	SLAMS	PM_{10}	Yes	Yes	No	No	No	CLOSE	See calculation results in Table 3.14
		SLAMS	$PM_{2.5}$	Yes	Yes	No	No	No	CLOSE	Collocated monitor; See calculation results in Table 3.14
12-071-0005	Winkler Pump Station	SLAMS	$PM_{2.5}$	Yes	Yes	No	No	No	CLOSE	Collocated monitor; See calculation results in Table 3.14
12-103-5002	John Chesnut Sr. Park - East Lake	SLAMS	PM_{10}	Yes	Yes	No	No	No	CLOSE	See calculation results in Table 3.14
12-105-6006	Baptist Children's Home	SLAMS	$PM_{2.5}$	Yes	Yes	No	No	No	CLOSE	Collocated monitor; See calculation results in Table 3.14
12-115-0013	Bee Ridge Park	SLAMS	$PM_{2.5}$	Yes	Yes	No	No	No	CLOSE	Collocated monitor; See calculation results in Table 3.14
12-117-1002	Seminole Community College	SLAMS	$PM_{2.5}$	Yes	Yes	No	No	No	CLOSE	Collocated monitor; See calculation results in Table 3.14

Section 4.1 of the AAMNAG states that a monitor can be removed (after Regional Administrator approval) if it is currently in attainment with the applicable NAAQS standard and if the following four tests can be met:

1. The $PM_{2.5}$, ozone, CO, PM_{10}, SO_2, lead, or NO_2 monitor showed attainment during the previous five years.
2. The probability is less than 10% that the monitor will exceed 80% of the applicable NAAQS during the next three years based on the concentrations, trends, and variability observed in the past. This can be done using the following equation:

   $$\bar{X} + \frac{t*s}{\sqrt{n}} < 0.8 * NAAQS$$

   $\bar{X}$ is the average design value for the last 5 years

   t is the student's t value for n-1 degrees of freedom at the 90% confidence level

   s is the standard deviation of the design values

   n is the number of records (i.e., number of design values)

   NAAQS is the standard of interest.
3. The monitor is not specifically required by an attainment plan or maintenance plan.
4. The monitor is not the last monitor in a nonattainment area or maintenance area that contains a contingency measure triggered by an air quality concentration in the latest attainment or maintenance plan adopted by the state and approved by EPA.

All monitors listed in Table 3.13 passed these tests and the probability test results are listed in Table 3.14 below.

Table 3.14 40 CFR Part 58.14(c) and Ambient Air Monitoring Network Assessment Guidance Calculations

Site	Site Name	Pollutant	Averaging Period	Design Value					$\bar{X}$	s	t	n	NAAQS	80% of NAAQS	90% Confidence Interval	Pass
				2012	2013	2014	2015	2016								
12-031-0080	Southside Playground	CO[1]	8-hr	1.8	1.1	0.8	1	1.9	1.32	0.5	2.13	5	9	7.2	1.79	Yes
			1-hr	3.3	2	1.2	1.4	2.5	2.08	0.85	2.13	5	35	28	2.89	Yes
12-095-2002	Lake Isle Estates - Winter Park	CO[1]	8-hr	1.2	1	1.5	1.2	1.2	1.22	0.18	2.13	5	9	7.2	1.39	Yes
			1-hr	1.3	1.2	1.8	1.6	1.5	1.48	0.24	2.13	5	35	28	1.71	Yes
12-057-0081	E.G. Simmons Park	SO_2	1-hr	21	19	18	16	16	18	2.12	2.13	5	75	60	20.02	Yes
12-057-1065	USMC Reserve Center	NO_2	Annual	4.7	4.8	4.5	4.3	4.2	4.5	0.25	2.13	5	53	42.4	4.74	Yes
			1-hr	35	32	31	30	31	31.8	1.92	2.13	5	100	80	33.63	Yes
12-086-0034	Kendall	CO[1]	8-hr	1.1	0.7	1.1	0.9	1	0.96	0.17	2.13	5	9	7.2	1.12	Yes
			1-hr	1.3	1	1.6	1.2	1.4	1.3	0.22	2.13	5	35	28	1.51	Yes
12-103-0018	Azalea Park	PM_{10}[1]	24-hr	45	29	32	39	24	33.8	8.29	2.13	5	150	120	41.7	Yes
		$PM_{2.5}$	Annual	7.5	6.5	6.5	6.5	6.7	6.74	0.43	2.13	5	12	9.6	7.15	Yes
			24-hr	15	15	17	15	15	15.4	0.89	2.13	5	35	28	16.25	Yes
12-103-5002	John Chesnut Sr. Park - East Lake	PM_{10}[1]	24-hr	40	24	30	40	28	32.4	7.27	2.13	5	150	120	39.32	Yes
12-105-6006	Baptist Children's Home	$PM_{2.5}$	Annual	7.4	6.8	6.8	6.5	6.3	6.76	0.42	2.13	5	12	9.6	7.16	Yes
			24-hr	15	14	17	14	14	14.8	1.30	2.13	5	35	28	16.04	Yes
12-115-0013	Bee Ridge Park	$PM_{2.5}$	Annual	7	6.5	6.6	6.1	6.3	6.5	0.34	2.13	5	12	9.6	6.82	Yes
			24-hr	16	17	17	16	16	16.4	0.55	2.13	5	35	28	16.92	Yes
12-071-0005	Winkler Pump Station	$PM_{2.5}$	Annual	6.8	6.2	6.2	5.9	5.8	6.18	0.39	2.13	5	12	9.6	6.55	Yes
			24-hr	14	15	14	14	13	14.00	0.71	2.13	5	35	28	14.67	Yes
12-117-1002	Seminole Community College	$PM_{2.5}$	Annual	7.7	6.9	6.7	6.1	6	6.68	0.69	2.13	5	12	9.6	7.33	Yes
			24-hr	19	20	17	16	15	17.4	2.07	2.13	5	35	28	19.38	Yes

[1] The 1st highest concentration for each year was used in probability calculation.

C. $PM_{2.5}$ Operating Schedule Changes

DEP is requesting EPA's approval to change the operating schedule of nine of its $PM_{2.5}$ FRM monitors. Currently there are six primary samplers that run daily and three collocated samplers that run on a 1-in-6-day schedule (see Table 3.15 below identifying specific monitors). DEP proposes to change the six primary samplers to a 1-in-3-day operating schedule and the three collocated samplers to a 1-in-12-day operating schedule, respectively, effective January 1, 2018.

In accordance with 40 CFR Part 58 Subpart B 58.12 (d) (1) (iii), Florida does not have $PM_{2.5}$ FRM monitors that are within ±5 percent of the 24-hour $PM_{2.5}$ NAAQS; thus, it is not a federal requirement to operate $PM_{2.5}$ FRM monitors on a daily schedule. Additionally, the reduction in the operating schedule for the $PM_{2.5}$ collocated monitors would be in compliance with the CFR, specifically 40 CFR Part 58 3.2.3.4 (d), which states that the quality assurance collocation requirement is a 1-in-12-day sampling schedule. Table 3.15 lists the operating schedule of the monitors DEP proposes to modify.

Table 3.15 Florida $PM_{2.5}$ Operating Schedule Changes

AQS Site #	Site Name	Pollutant	Operating Schedule Change
12-031-0032	Kooker Park	$PM_{2.5}$	Daily to 1-in-3-day
12-031-0098	Mandarin Rd Site	$PM_{2.5}$	Daily to 1-in-3-day
12-031-0099	Sunny Acres	$PM_{2.5}$	Daily to 1-in-3-day
12-103-0018	Azalea Park	$PM_{2.5}$	Daily to 1-in-3-day
12-086-6001	Homestead Fire Station	$PM_{2.5}$	Daily to 1-in-3-day
12-086-1016	Miami Fire Station	$PM_{2.5}$	Daily to 1-in-3-day
		$PM_{2.5}$ Collocated monitor	1-in-6-day to 1-in-12-day
12-011-0034	Daniela Banu (NCore Site)	$PM_{2.5}$ Collocated monitor	1-in-6-day to 1-in-12-day
12-057-3002	Sydney (NCore Site)	$PM_{2.5}$ Collocated monitor	1-in-6-day to 1-in-12-day

4.0 FLORIDA'S AMBIENT AIR MONITORING NETWORK 2017

The Ambient Air Monitoring Section in Florida is responsible for measuring levels of regulated pollutants in the ambient air by maintaining a network of 105 monitoring stations across the state and measuring the concentration of pollutants such as ozone, lead, particles (dust), nitrogen oxides, sulfur dioxide and carbon monoxide. These monitoring services are provided in accordance with EPA regulatory requirements. The criteria pollutant monitoring system is designed to make measurements to assess compliance with the national ambient air quality standards (NAAQS) as set by the EPA. The NAAQS define air pollutant concentration levels judged necessary to protect the public health and welfare. This section provides details of each pollutant network within Florida's ambient air monitoring network, if all requests in this plan are granted.

4.1 OZONE NETWORK

Florida operates an extensive ozone network covering the state from large urban areas to smaller rural areas totaling 58 monitoring sites. This network enables the state of Florida to learn how ozone is transported to and within the state, to identify the parts of the state with peak ozone concentrations, and to determine where ozone concentrations do and do not exceed the NAAQS. Table 4.1 lists all ozone monitoring stations within the state and their 2013-2015 design values.

Table 4.1 Florida's Ozone Network

AQS Site #	Site Name	Pollutant	2013-2015 Design Values
12-011-0033	Vista View Park	Ozone	58
12-011-0034	Daniela Banu (NCore Site)	Ozone	Not Available - Site opened in 2015
12-011-2003	Pompano Highland Fire House	Ozone	Not Available - Data Completeness
12-011-8002	Dr. Von Mizell-Eula Johnson State Park	Ozone	62
12-086-0027	Rosenstiel (University of Miami)	Ozone	62
12-086-0029	Perdue	Ozone	63
12-099-0021	Lantana Preserve	Ozone	Not Available - Relocated site; Awaiting merging of datasets
12-099-0022	Lamstein Lane	Ozone	Not Available - Site expected to open 7/2017
12-101-0005	San Antonio	Ozone	62
12-101-2001	Holiday	Ozone	64
12-057-0081	E.G. Simmons Park	Ozone	69
12-057-1035	Davis Island (Coast Guard Station)	Ozone	64
12-057-1065	USMC Reserve Center	Ozone	66
12-057-3002	Sydney (NCore Site)	Ozone	66
12-103-0004	St. Petersburg College	Ozone	60
12-103-0018	Azalea Park	Ozone	63
12-103-5002	John Chesnut Sr. Park - East Lake	Ozone	60
12-003-0002	Osceola National Forest - Olustee Ranger Station	Ozone	58
12-031-0077	Sheffield Elementary	Ozone	Not Available - Data Completeness
12-031-0100	Mayo Clinic	Ozone	Not Available - Data Completeness
12-031-0106	Cisco Drive	Ozone	Not Available - Data Completeness
12-069-0002	Clermont	Ozone	63
12-095-0008	Winegard Elementary School	Ozone	62
12-095-2002	Lake Isle Estates - Winter Park	Ozone	61

12-097-2002	Osceola Co. Fire Station - Four Corners	Ozone	63
12-117-1002	Seminole Community College	Ozone	60
12-081-3002	Port Manatee	Ozone	59
12-081-4012	GT Bray Park	Ozone	64
12-081-4013	39th Street Park	Ozone	62
12-115-1005	Lido Park	Ozone	65
12-115-1006	Paw Park	Ozone	64
12-115-2002	Jackson Road	Ozone	64
12-071-2002	Rotary Park	Ozone	62
12-071-3002	Bay Oaks Park	Ozone	60
12-105-6005	Sikes Elementary School	Ozone	63
12-105-6006	Baptist Children's Home	Ozone	63
12-035-0004	Flagler	Ozone	60
12-127-2001	Port Orange	Ozone	58
12-127-5002	Daytona - Blind Services	Ozone	60
12-009-0007	Melbourne	Ozone	60
12-009-4001	Cocoa Beach	Ozone	61
12-033-0004	Ellyson Industrial Park	Ozone	65
12-033-0018	Pensacola NAS	Ozone	65
12-113-0015	Woodlawn Beach Middle School	Ozone	65
12-085-0007	Stuart	Ozone	Not Available - Data Completeness
12-111-0013	Savannas	Ozone	Not Available - Data Completeness
12-073-0012	Tallahassee Community College	Ozone	60
12-129-0001	St. Marks Wildlife Refuge (NCore Site)	Ozone	Not Available - Data Completeness
12-021-0004	Laurel Oak Elementary	Ozone	58
12-083-0003	Ocala - YMCA	Ozone	61
12-083-0004	Marion County Sheriff	Ozone	59
12-001-3012	Paynes Prairie Farm	Ozone	59
12-091-0002	Fort Walton Beach	Ozone	62
12-005-0006	St. Andrews State Park	Ozone	63
12-055-0003	Archbold Biological Station	Ozone	59
12-023-0002	Lake City - Veterans Domicile	Ozone	Not Available - Data Completeness
12-059-0004	Bonifay Tri-County Airport	Ozone	60

4.2 $PM_{2.5}$ NETWORK

- *The Federal Reference Method and Federal Equivalent Method Network*

Florida's PQAO currently operates 22 federal reference method (FRM) and 10 federal equivalent method (FEM) monitors. There is an approved waiver for the FEM Met One BAM 1020 instruments operating in Palm Beach County to remain non-regulatory monitors since they do not meet the required FEM statistics in 40 CFR Part 53(C). The 9 other FEM monitors have been approved by the EPA and can be used to determine compliance with the NAAQS. This network is sufficient to protect the health and welfare of Florida's residents and environment. It also provides information on how fine particles are transported to and within the state, to identify the parts of the state with the highest concentrations of fine particles, and to determine where fine particle concentrations do and do not exceed the NAAQS. All of Florida's $PM_{2.5}$ monitoring sites, with valid design values for 2013-2015, are less than 80 percent of the annual standard (9.6 µg/m^3) as detailed in Table 4.2.

Table 4.2 Florida's $PM_{2.5}$ Network

AQS Site #	Site Name	Pollutant	Method: FRM/FEM	Operating Schedule	2013-2015 Design Values	Comments
12-011-0034	Daniela Banu (NCore Site)	$PM_{2.5}$	FRM	Daily	Not Available – Site opened in 2015	
		$PM_{2.5}$	FRM	Every 6th Day		Collocated FRM monitor
		$PM_{2.5}$	FEM	Continuous		
12-011-0035	Fort Lauderdale Near Road	$PM_{2.5}$	FEM	Continuous	Not Available – Site opened in 2015	
12-011-2003	Pompano Highland Fire House	$PM_{2.5}$	FRM	Every 3rd Day	Not Available – Data Completeness	
12-011-5005	Coconut Creek	$PM_{2.5}$	FRM	Daily	Not Available – Site reopened in 2015	
12-086-0033	Palm Springs Fire Station	$PM_{2.5}$	FRM	Every 3rd Day	6	
12-086-1016	Miami Fire Station	$PM_{2.5}$	FRM	Daily	Not Available – Data Completeness	
		$PM_{2.5}$	FRM	Every 6th Day		Collocated FRM monitor
12-086-6001	Homestead Fire Station	$PM_{2.5}$	FRM	Daily	Not Available – Data Completeness	
12-099-2005	Delray Beach	$PM_{2.5}$	FRM	Every 3rd Day	5.3	
12-099-0008	Belle Glade	$PM_{2.5}$	FEM	Continuous	Non-regulatory Monitor	
		$PM_{2.5}$	FEM	Continuous		

12-099-0022	Lamstein Lane	$PM_{2.5}$	FEM	Continuous	Not Available – Site expected to open 7/2017	Collocated FEM monitor
12-057-0112	Munro Street	$PM_{2.5}$	FEM	Continuous	Not Available – Site opened in 2016	
12-057-3002	Sydney (NCore Site)	$PM_{2.5}$	FRM	Daily	8	
		$PM_{2.5}$	FRM	Every 6th Day		Collocated FRM monitor
		$PM_{2.5}$	FEM	Continuous		
12-103-0018	Azalea Park	$PM_{2.5}$	FRM	Daily	6.5	
12-103-1009	Sandy Lane	$PM_{2.5}$	FRM	Every 3rd Day	6.5	
12-031-0032	Kooker Park	$PM_{2.5}$	FRM	Daily	7.7	
12-031-0098	Mandarin Rd Site	$PM_{2.5}$	FRM	Daily	6.7	
12-031-0099	Sunny Acres	$PM_{2.5}$	FRM	Daily	6.9	
		$PM_{2.5}$	FRM	Every 12th Day		Collocated FRM monitor
12-031-0108	Pepsi Place (PP-PPL)	$PM_{2.5}$	FEM	Continuous	Not Available – Site opened in 2014	
12-095-2002	Lake Isle Estates - Winter Park	$PM_{2.5}$	FEM	Continuous	6.2	
12-117-1002	Seminole Community College	$PM_{2.5}$	FRM	Every 3rd Day	6.1	
12-115-0013	Bee Ridge Park	$PM_{2.5}$	FRM	Every 3rd Day	6.1	
12-071-0005	Winkler Pump Station	$PM_{2.5}$	FRM	Every 3rd Day	6.2	
12-105-6006	Baptist Children's Home	$PM_{2.5}$	FRM	Every 3rd Day	6.5	
12-127-5002	Daytona - Blind Services	$PM_{2.5}$	FRM	Every 3rd Day	6.1	
12-009-0007	Melbourne	$PM_{2.5}$	FRM	Every 3rd Day	5.6	
12-033-0004	Ellyson Industrial Park	$PM_{2.5}$	FRM	Every 3rd Day	7.7	
		$PM_{2.5}$	FRM	Every 12th Day		Collocated FRM monitor

12-073-0012	Tallahassee Community College	$PM_{2.5}$	FRM	Every 3rd Day	8.3	
		$PM_{2.5}$	FRM	Every 12th Day		Collocated FRM monitor
12-001-0023	Millhopper	$PM_{2.5}$	FRM	Every 3rd Day	Not Available – Data Completeness	
		$PM_{2.5}$	FRM	Every 12th Day		Collocated FRM monitor

4.3 NCORE NETWORK

The National Core (NCore) monitoring network is designed to be approximately 80 sites nationwide, with the intent 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 www3.epa.gov/ttn/amtic/ncore.html. Table 4.3 provides information on Florida's NCore sites.

Table 4.3 NCore Sites in Florida

AQS Site #	Site Name	Parameter
12-129-0001	St. Marks National Wildlife Refuge	O_3, NO_y, CO, SO_2_TL, Continuous $PM_{2.5}$
12-011-0034	Daniela Banu	O_3, NO_y_TL, NO_z_TL, NO_TL, CO_TL, SO_2_TL, Continuous $PM_{2.5}$, $PM_{10-2.5}$, Low Volume PM_{10}, PM_{10} and $PM_{2.5}$
12-057-3002	Sydney	O_3, NO_y_TL, NO_z_TL, NO_TL, CO_TL, SO_2_TL, Continuous $PM_{2.5}$, $PM_{10-2.5}$, Low Volume PM_{10}, PM_{10} and $PM_{2.5}$

EPA only requires two NCore monitoring sites for the state of Florida but DEP currently operates three sites. EPA requested DEP operate a rural NCore site at the St. Marks National Wildlife Refuge to enhance the coverage for the southeastern United States. The St. Marks National Wildlife Refuge site (AQS Site #12-129-0001) takes advantage of the existing Interagency Monitoring of Protected Visual Environments (IMPROVE) and DEP monitoring for particulate matter and ozone, respectively.

Building on the Speciation Trends Network (STN), the two required NCore sites are located in the largest Metropolitan Statistical Areas in the state - the Miami-Fort Lauderdale-Miami Beach area (more than 6 million) and Tampa-St. Petersburg-Clearwater area (more than 2 million). 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 in Davie, which is operated by Broward County. The site began operation in August 2015 and the meteorological instruments will be operational in the summer of 2017.

In the Tampa-St. Petersburg-Clearwater area, the NCore site is Sydney (AQS Site #12-057-3002), which is operated by Hillsborough County. This site was used as part of a large and intense nitrogen deposition study called the Bay Regional Atmospheric Chemistry Experiment (BRACE). It has also been monitoring trace SO_2, CO and total reactive nitrogen (NO_y) since 2004. Since the primary use of the NCore sites is to obtain air quality trends analyses, Sydney's location in a more rural part of the county is ideal for tracking trends that reflect the increasing population.

4.4 PHOTOCHEMICAL ASSESSMENT MONITORING STATION

The NCore sites in Metropolitan Statistical Areas with populations over 1 million will be required to incorporate Photochemical Assessment Monitoring Station (PAMS) under 40 CFR part 58, Appendix D, section 5(a), no later than June 1, 2019. The PAMS measurements include:

1. Hourly averaged speciated volatile organic compounds (VOCs);
2. Three eight-hour averaged carbonyl samples per day on a 1 in 3-day schedule, or hourly averaged formaldehyde;
3. Hourly averaged O_3;
4. Hourly averaged nitrogen oxide (NO), true nitrogen dioxide (NO_2), and total reactive nitrogen (NO_y);
5. Hourly averaged ambient temperature;
6. Hourly vector-averaged wind direction;
7. Hourly vector-averaged wind speed;
8. Hourly average atmospheric pressure;
9. Hourly averaged relative humidity;
10. Hourly precipitation;
11. Hourly averaged mixing-height;
12. Hourly averaged solar radiation; and
13. Hourly averaged ultraviolet radiation.

The Daniela Banu (AQS Site #12-011-0034) and Sydney (AQS Site #12-057-3002) NCore sites located in Broward and Hillsborough counties, respectively, will be required to implement PAMS monitoring. The PAMS Implementation Network Plans for each county is provided below.

- *PAMS Monitoring Implementation Network Plan – Broward County*

PAMS Monitoring Implementation Network Plan

Monitoring Organizations Required To Operate At NCore Sites

Environmental Protection and Growth Management Department, Environmental Engineering and Permitting Division, Air Monitoring and Outreach Section, Broward County, Florida

The recently revised monitoring rule (80 FR 65292; October 26, 2015) requires PAMS measurements June 1 through August 31 at NCore sites that are located in Core-Based Statistical Areas (CBSAs) with populations of 1,000,000 or more. Therefore, Broward County's Air Monitoring and Outreach Section proposes to implement PAMS monitoring in the FY2019 network plan.

Network Decision

☑ The NCore site located at the Banu air monitoring station (12-011-0034) will serve as the location of the required PAMS site and will measure the following parameters described below. An Inventory of equipment used at the site is provided in Table 2.

☐ We request a waiver from implementing PAMS at an otherwise required NCore site entirely, or to make PAMS measurements at alternative locations such as existing PAMS sites or existing NATTS sites. Rationale for this waiver is provided in Waiver attachment

Auto GC Decision

Volatile organic compounds (VOCs) – A complete list of the targeted compounds are found in Table 1.

☑ We will measure hourly speciated VOC measurements with an auto-gas chromatograph (GC) using CAS AutoGC.

☐ We request a waiver to allow three 8-hour samples every third day as an alternative to daily hourly speciated VOC measurements at locations *(insert locations)*. Rationale for this waiver is provided in Waiver Attachment

Meteorology Measurements Decision – Note: EPA is suggesting the use of ceilometers for determining mixing height, however other types of meteorological equipment that provide for an indication of mixing height can be proposed

☑ Will measure wind direction, wind speed, temperature, humidity, atmospheric pressure, precipitation, solar radiation, ultraviolet radiation, and mixing height. We have elected to use the following instrumentation to measure the parameters described above *(See Table 2)*.

☐ We request a waiver to allow meteorological measurements to be obtained from other nearby sites. Rationale for this waiver is provided in Waiver attachment

Other Required Measurements

- **Carbonyls** - Carbonyl sampling at a frequency of three 8-hour samples on a one-in-three day basis (~90 samples per PAMS sampling season) using an ATECH 8000. A complete list of the target

carbonyl compounds may be found in Table 1. The TO-11A test method, as used in the National Air Toxics Trends (NATTS) program[1] will be used.

- **Nitrogen Oxides** – Will monitor for NO and NO_y (total oxides of nitrogen) in addition to true NO_2. The true NO_2 is required to be measured with a direct reading NO_2 analyzer, cavity attenuated phase shift (CAPS) spectroscopy or photolytic-converter NO_x analyzer. We have elected to use the Teledyne-API T500 CAPS Analyzer for the true NO2 measurement. NO and NOy will be measured using a Thermo Environmental Instruments Model 42i-Y analyzer.

Table 1 PAMS Target Compound List

Priority Compounds				Optional Compounds			
1	1,2,3-trimethylbenzene [a]	19	n-hexane [b]	1	1,3,5-trimethylbenzene	19	m-diethlybenzene
2	1,2,4-trimethylbenzene [a]	20	n-pentane	2	1-pentene	20	methylcyclohexane
3	1-butene	21	o-ethyltoluene [a]	3	2,2-dimethylbutane	21	methylcyclopentane
4	2,2,4-trimethylpentane [b]	22	o-xylene [a,b]	4	2,3,4-trimethylpentane	22	n-decane
5	acetaldehyde [b,c]	23	p-ethyltoluene [a]	5	2,3-dimethylbutane	23	n-heptane
6	acetone [c,d]	24	Propane	6	2,3-dimethylpentane	24	n-nonane
7	benzene [a,b]	25	propylene	7	2,4-dimethylpentane	25	n-octane
8	c-2-butene	26	styrene [a,b]	8	2-methylheptane	26	n-propylbenzene [a]
9	ethane [d]	27	toluene [a,b]	9	2-methylhexane	27	n-undecane
10	ethylbenzene [a,b]	28	t-2-butene	10	2-methylpentane	28	p-diethylbenzene
11	Ethylene			11	3-methylheptane	29	t-2-pentene
12	formaldehyde [b,c]			12	3-methylhexane	30	α/β-pinene
13	Isobutane			13	3-methylpentane	31	1,3 butadiene [b]
14	Isopentane			14	Acetylene	32	benzaldehyde [c]
15	Isoprene			15	c-2-pentene	33	carbon tetrachloride [b]
16	m&p-xylenes [a,b]			16	cyclohexane	34	Ethanol
17	m-ethyltoluene [a]			17	cyclopentane	35	Tetrachloroethylene [b]
18	n-butane			18	isopropylbenzene [b]		

Source: Revisions to the Photochemical Assessment Monitoring Stations Compound Target List. U.S. EPA, November 20, 2013

[a] Important SOAP (Secondary Organic Aerosols Precursor) Compounds
[b] HAP (Hazardous Air Pollutant) Compounds
[c] Carbonyl compounds
[d] Non-reactive compounds, not considered to be VOC for regulatory purposes

[1] See NATTS Technical Assistance Document for TO-11A method.

Table 2: Banu Station Equipment Inventory

Instrument	Manufacturer	Model	Status
Trace-level CO Analyzer	TEI	48C-TLE	Active
Trace-level SO_2 Analyzer	TEI	43i-TLE	Active
Ozone Analyzer	TEI	49i	Active
Trace-level NO/NOy Analyzer	TEI	42i-TLE	Active
24-hour VOC Canister Sampling	Entech	SUMMA	Active
24-hour VOC Canister Sampling	ATEC	2200-22	Pending
$PM_{2.5}$ Speciation	MetOne	SASS	Active
Organic Carbon/Elemental Carbon	URG	3000N	Active
Low-Volume $PM_{2.5}$ Mass	TEI	2025i	Active
Low-Volume $PM_{2.5\text{-}10}$ Mass	TEI	2025i	Active
Low-Volume PM_{10} Mass	TEI	2025i	Active
Continuous $PM_{2.5}$ Mass	TEI	5014i	Active
Ultrasonic Anemometer	R.M. Young	81000	Active
Data Acquisition System	Agilaire	8832	Active
Data Acquisition System	Agilaire	8872	Pending
AutoGC System	CAS	-	Pending
3-hour Carbonyl Sampler	ATECH	8000	Pending
True NO_2 Analyzer	T-API	T500	Pending
Mixing Height Monitor	TBD	-	Pending
UV/Solar Radiation Monitor	TBD	-	Pending
Precipitation Gauge	TBD	-	Pending
Atmospheric Pressure Gauge	TBD	-	Pending

*TBD = to be determined

- *PAMS Monitoring Implementation Network Plan – Hillsborough County*

PAMS Monitoring Implementation Network Plan

Monitoring Organizations Required To Operate At NCore Sites

Environmental Protection Commission of Hillsborough County, Florida

The recently revised monitoring rule (80 FR 65292; October 26, 2015) requires PAMS measurements June 1 through August 31 at NCore sites that are located in Core-Based Statistical Areas (CBSAs) with populations of 1,000,000 or more. Therefore, the Environmental Protection Commission of Hillsborough County, Florida (EPC/HC) proposes to implement PAMS monitoring in the FY2017 network plan.

Network Decision

☑ The NCore site located at the Sydney air monitoring station (12-057-3002) will serve as the location of the required PAMS site and will measure the following parameters described below. An Inventory of equipment used at the site is provided in Table 2.

☐ We request a waiver from implementing PAMS at an otherwise required NCore site entirely, or to make PAMS measurements at alternative locations such as existing PAMS sites or existing NATTS sites. Rationale for this waiver is provided in Waiver attachment

Auto GC Decision

Volatile organic compounds (VOCs) – A complete list of the targeted compounds are found in Table 1.

☑ We will measure hourly speciated VOC measurements with an auto-gas chromatograph (GC) using Markes-Agilent AutoGC.

☐ We request a waiver to allow three 8-hour samples every third day as an alternative to daily hourly speciated VOC measurements at locations *(insert locations)*. Rationale for this waiver is provided in Waiver Attachment

Meteorology Measurements Decision – Note: EPA is suggesting the use of ceilometers for determining mixing height, however other types of meteorological equipment that provide for an indication of mixing height can be proposed

☑ Will measure wind direction, wind speed, temperature, humidity, atmospheric pressure, precipitation, solar radiation, ultraviolet radiation, and mixing height. We have elected to use the following instrumentation to measure the parameters described above *(See Table 2)*.

☐ We request a waiver to allow meteorological measurements to be obtained from other nearby sites. Rationale for this waiver is provided in Waiver attachment

Other Required Measurements

- **Carbonyls** - Carbonyl sampling at a frequency of three 8-hour samples on a one-in-three day basis (~90 samples per PAMS sampling season) using an ATECH 8000. A complete list of the target

carbonyl compounds may be found in Table 1. The TO-11A test method, as used in the National Air Toxics Trends (NATTS) program[1] will be used.

- **Nitrogen Oxides** – Will monitor for NO and NO_y (total oxides of nitrogen) in addition to true NO_2. The true NO_2 is required to be measured with a direct reading NO_2 analyzer, cavity attenuated phase shift (CAPS) spectroscopy or photolytic-converter NO_x analyzer. We have elected to use the Teledyne-API T500 CAPS Analyzer for the true NO2 measurement. NO and NOy will be measured using a Thermo Environmental Instruments Model 42i-Y analyzer.

Table 1 PAMS Target Compound List

Priority Compounds				Optional Compounds			
1	1,2,3-trimethylbenzene [a]	19	n-hexane [b]	1	1,3,5-trimethylbenzene	19	m-diethlybenzene
2	1,2,4-trimethylbenzene [a]	20	n-pentane	2	1-pentene	20	methylcyclohexane
3	1-butene	21	o-ethyltoluene [a]	3	2,2-dimethylbutane	21	methylcyclopentane
4	2,2,4-trimethylpentane [b]	22	o-xylene [a,b]	4	2,3,4-trimethylpentane	22	n-decane
5	acetaldehyde [b,c]	23	p-ethyltoluene [a]	5	2,3-dimethylbutane	23	n-heptane
6	acetone [c,d]	24	Propane	6	2,3-dimethylpentane	24	n-nonane
7	benzene [a,b]	25	propylene	7	2,4-dimethylpentane	25	n-octane
8	c-2-butene	26	styrene [a,b]	8	2-methylheptane	26	n-propylbenzene [a]
9	ethane [d]	27	toluene [a,b]	9	2-methylhexane	27	n-undecane
10	ethylbenzene [a,b]	28	t-2-butene	10	2-methylpentane	28	p-diethylbenzene
11	Ethylene			11	3-methylheptane	29	t-2-pentene
12	formaldehyde [b,c]			12	3-methylhexane	30	α/β-pinene
13	Isobutane			13	3-methylpentane	31	1,3 butadiene [b]
14	Isopentane			14	Acetylene	32	benzaldehyde [c]
15	Isoprene			15	c-2-pentene	33	carbon tetrachloride [b]
16	m&p-xylenes [a,b]			16	cyclohexane	34	Ethanol
17	m-ethyltoluene [a]			17	cyclopentane	35	Tetrachloroethylene [b]
18	n-butane			18	isopropylbenzene [b]		

Source: Revisions to the Photochemical Assessment Monitoring Stations Compound Target List. U.S. EPA, November 20, 2013

[a] Important SOAP (Secondary Organic Aerosols Precursor) Compounds
[b] HAP (Hazardous Air Pollutant) Compounds
[c] Carbonyl compounds
[d] Non-reactive compounds, not considered to be VOC for regulatory purposes

[1] See NATTS Technical Assistance Document for TO-11A method.

Table 2: Sydney Station Equipment Inventory

Instrument	Manufacturer	Model	Status
Trace-level CO Analyzer	TEI	48i-TLE	Active
Trace-level SO_2 Analyzer	TEI	43i-TLE	Active
Ozone Analyzer	TEI	49i	Active
Trace-level NO/NOy Analyzer	TEI	42i-TLE	Active
24-hour VOC Canister Sampling	Resteck	SUMA	Active
24-hour Carbonyl Sampling	ERG	C Sampling	Active
SVOC/PUF Sampler	General Metals	Hi-VOL	Active
PM_{10} Metals	General Metals	Hi-VOL	Active
$PM_{2.5}$ Speciation	MetOne	SASS	Active
Organic Carbon/Elemental Carbon	URG	3000N	Active
Low-Volume $PM_{2.5}$ Mass	TEI	2025i	Active
Low-Volume $PM_{2.5\text{-}10}$ Mass	TEI	2025i	Active
Low-Volume PM_{10} Mass	TEI	2025i	Active
Continuous $PM_{2.5}$ Mass	TEI	5014i	Active
Ultrasonic Anemometer	R.M. Young	81000	Active
Data Acquisition System	Agilaire	8872	Pending
AutoGC System	Markes-Agilent	-	Pending
3-hour Carbonyl Sampler	ATECH	8000	Pending
True NO_2 Analyzer	T-API	T500	Pending
Mixing Height Monitor	TBD	-	Pending
UV/Solar Radiation Monitor	TBD	-	Pending
Precipitation Gauge	TBD	-	Pending
Atmospheric Pressure Gauge	TBD	-	Pending

*TBD = to be determined

4.5 NATIONAL AIR TOXICS TRENDS STATION NETWORK

The National Air Toxics Trends Station (NATTS) Network was developed to fulfill the need for long-term Hazardous Air Pollutants (HAPs) monitoring data of consistent quality. Among the principle objectives are assessing trends and emission reduction program effectiveness, as well as assessing and verifying air quality models. The current NATTS network configuration includes 27 sites (20 urban, 7 rural) across the United States. There are typically more than 100 pollutants monitored at each NATTS, although only 19 are required. These include VOCs, carbonyls, PM_{10} metals, hexavalent chromium and Polycyclic Aromatic Hydrocarbons (PAHs). Table 4.4 lists the NATTS sites in Hillsborough and Pinellas counties. These counties jointly administer funds for the NATTS program. The two NATTS sites in Florida are in the Tampa Bay area: one in Hillsborough County (Sydney: AQS Site #12-057-3002) and the other in Pinellas County (Skyview: AQS Site #12-103-0026).

Table 4.4 NATTS Sites in Florida

AQS Site #	Site Name	County	Pollutants
12-103-0026	Skyview	Pinellas	VOCs, Carbonyls, PAHs and Metals
12-057-3002	Sydney (NCore Site)	Hillsborough	VOCs, Carbonyls and Metals

4.6 SO_2 MONITORING NETWORK

Florida's air monitoring network complies with current SO_2 monitoring requirements. Ambient monitoring is required for Core Based Statistical Areas (CBSAs) whose Population Weighted Emission Index (PWEI) is above 5,000. One SO_2 monitor is required for CBSAs 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. Additionally, one SO_2 monitor is required at each of the NCore sites. A summary of these requirements is provided in Table 4.5. The PWEI values listed were provided by EPA.

Table 4.5. SO_2 Monitoring Requirements

Core Based Statistical Areas	2015 Census Population	PWEI 2012 NEI	SO_2 Needed	SO_2 Monitors Operating
Miami-Fort Lauderdale-Pompano Beach	6,012,331	147,762	2	2
Tampa-St. Petersburg-Clearwater	2,975,225	94,280	2	5
Orlando-Kissimmee-Sanford	2,387,138	13,157	1	1
Jacksonville	1,449,481	32,408	1	5
North Port-Bradenton-Sarasota	768,918	5,030	1	1
Cape Coral-Fort Myers	701,982	770		
Lakeland	650,092	10,666	1	1
Deltona-Daytona Beach-Ormond Beach	623,279	243		
Palm Bay-Melbourne-Titusville	558,088	3,003		
Pensacola-Ferry Pass-Brent	478,043	13,122	1	1
Port St. Lucie-Fort Pierce	454,846	3,780		
Homosassa Springs [1]	141,058	9,456	1	1
Palatka	72,023	N/A		1
Hamilton County	14,295	N/A		1
NCore sites (3)	N/A	N/A	3	3
Total			**13**	**22**

[1] Additional information for a full evaluation of the Crystal River Preserve site in Homosassa Springs is included in Appendix A.

Table 4.6 Florida's SO_2 Network

AQS Site #	Site Name	Pollutant	Monitoring Purpose
12-011-0034	Daniela Banu (NCore Site)	SO_2	Population
12-011-8002	Dr. Von Mizell-Eula Johnson State Park	SO_2	Population
12-086-0019	Pennsuco	SO_2	Source
12-057-0112	Apollo Beach	SO_2	Source
12-057-0109	East Bay	SO_2	Source
12-057-1035	Davis Island (Coast Guard Station)	SO_2	Population
12-057-3002	Sydney (NCore Site)	SO_2	Population
12-103-0023	Derby Lane	SO_2	Population
12-103-5003	Oakwood	SO_2	Source
12-031-0032	Kooker Park	SO_2	Data Trends
12-031-0080	Southside Playground	SO_2	Source
12-031-0081	Cedar Bay STP	SO_2	Source
12-031-0097	Fort Caroline Road	SO_2	Data Trends
12-089-0005	FBHWWTP	SO_2	Regulatory
12-081-0028	Port Manatee DEP	SO_2	Source
12-095-2002	Lake Isle Estates - Winter Park	SO_2	Regulatory
12-105-6005	Sikes Elementary School	SO_2	Regulatory
12-033-0004	Ellyson Industrial Park	SO_2	Population
12-129-0001	St. Marks Wildlife Refuge (NCore Site)	SO_2	Background
12-107-1008	Palatka Barge Port	SO_2	Source
12-017-0006	Crystal River Preserve	SO_2	Source
12-047-0015	White Springs	SO_2	Source

4.7 NO_2 MONITORING NETWORK

There are three phases for the implementation of NO_2 Near-road monitoring:

- Phase I: CBSAs with a population over 1 million are required to have at least one NO_2 near-road monitor
- Phase II: CBSAs with a population over 2.5 million or more are required to operate two NO_2 near-road monitors.
- Phase III: Near-road monitoring is required in areas with populations between 500,000 and 1million. The Phase III requirement was reconsidered by EPA in May 2016 and a formal proposal to remove this requirement was published on May 16, 2016. The requirement was subsequently removed on December 30, 2016 and as a result all plans to implement Phase III monitoring in Florida by January 1, 2017 were terminated.

Phase I and II NO_2 Near-road monitoring also require community-wide monitoring for areas with a population over 1 million and NO_2 monitoring of vulnerable and susceptible populations.

In Florida, these areas are Tampa, Fort Lauderdale, Jacksonville and Orlando. All near-road sites within these areas are currently operational. Orange County was given a one-year extension for the Orlando monitoring site to accommodate working with the Florida Department of Transportation as they began a road-widening project for Interstate-4 (I-4). Additionally, EPA approved a temporary siting waiver for the Orlando near-road site, until the completion of the I-4 construction, on November 7, 2014 and the site became operational in July 2016. However, an assessment of the environmental conditions at the temporary site location illustrated that the data was not representative of I-4 ambient air. As a result, Region 4 EPA approved a temporary suspension of air monitoring for this site until the I-4 construction is completed. The site will shut down as of 7/1/2017. Further details are provided in Section 5 of this plan.

The secondary near-road NO_2 sites (Phase II) for the Tampa-St. Petersburg-Clearwater (Sawgrass Lake Park: AQS Site #12-103-0027) and Miami-Fort Lauderdale-Pompano Beach (Perimeter Road: AQS Site #12-086-0035) areas became operational in May and December of 2016, respectively.

A summary of the NO_2 monitoring requirements is provided in Table 4.7 and the designated community-wide and vulnerable and susceptible monitors for the state are provided in Table 4.8.

Table 4.7 NO_2 Monitoring Required by 2010 NAAQS

CBSAs with Population over 1,000,000	Population (2015)	AADT ≥250,000	Required Near-road Monitors	Required Community - wide Monitor	Vulnerable and Susceptible	Total
Miami-Fort Lauderdale-Pompano Beach	6,012,331	✓	2 [1]	1	1	4
Tampa-St. Petersburg-Clearwater	2,975,225	N/A	2 [1]	1	N/A	3
Orlando-Kissimmee	2,387,138	N/A	1[2]	1	N/A	2
Jacksonville	1,449,481	N/A	1	1	N/A	2
Total						**11**

[1] Population greater than 2.5 million requires two near-road sites.
[2] Orlando-Kissimmee near-road site has approval for temporary closure as of 7/1/2017.

- *Community-wide NO_2 Monitoring*

Community-wide NO_2 monitoring sites are required in each CBSA with a population of 1 million or more. In Florida, there are four CBSAs that meet this criterion Miami-Fort Lauderdale-Miami Beach, Tampa-St. Petersburg-Clearwater, Orlando-Kissimmee and Jacksonville. The NO_2 monitors that have been designated as community-wide monitors are listed in Table 4.8. The Azalea Park (AQS Site # 12-103-0018) NO_2 monitor has been designated to replace the USMC Reserve Center site (AQS Site # 12-057-1065) as the community-wide monitor, since the monitor at USMC Reserve Center is scheduled to be closed later this year.

- *Vulnerable and Susceptible Monitoring*

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

Florida participates in the National Environmental Public Health Tracking Network supported by the U.S. Centers for Disease Control. This program examines health and environmental data to help federal, state and local agencies plan, apply and develop environmental public health actions. 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 4.1 provides the most recent year of Florida's crude rate of asthma hospitalization by county for which data are available. The full list of the NO_2 monitors identified by the Regional Administrators can be found on EPA's website at https://www3.epa.gov/ttnamti1/svpop.html.

Figure 4.1 Florida Crude Rate of Asthma Hospitalization, 2009-2013

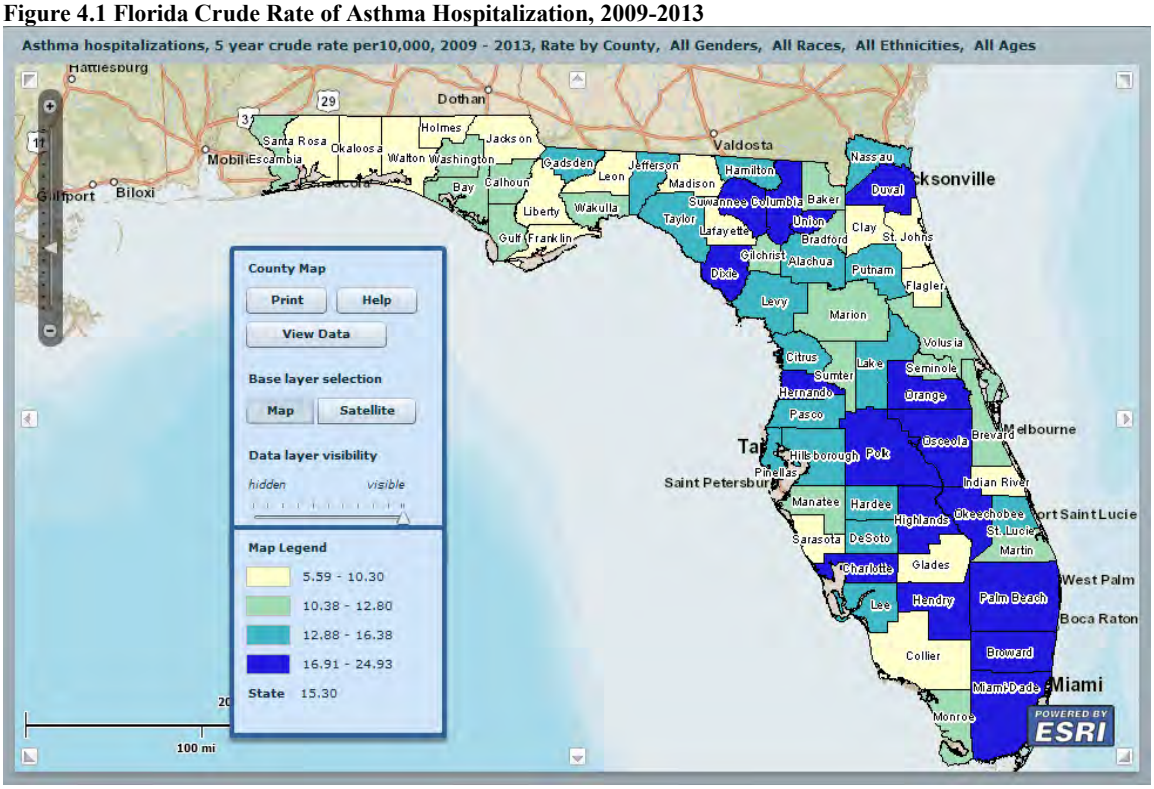


Table 4.8 Florida's NO_2 Near-road Network and Monitor Designations

CBSAs with Population over 500,000	AQS Site #	Site Name	Designation
Miami-Fort Lauderdale-Pompano Beach	12-011-0035	Fort Lauderdale Near Road	NO_2 Near-road
	12-011-8002	Dr. Von Mizell-Eula Johnson State Park	NO_2 Community-wide Monitor
	12-086-0027	Rosenstiel (University of Miami)	NO_2 Vulnerable and Susceptible monitor
	12-086-0035	Perimeter Road Near-road	NO_2 Near-road
	12-086-4002	Lab Annex	NO_2 Network
	12-099-0021	Lantana Preserve	NO_2 Network
Tampa-St. Petersburg-Clearwater	12-057-0113	Munro Street Near-road	NO_2 Near-road
	12-057-1065	USMC Reserve Center	NO_2 Network
	12-103-0018	Azalea Park	NO_2 Community-wide Monitor
	12-103-0027	Sawgrass Lake Park Near-road	NO_2 Near-road
Orlando-Kissimmee	12-095-2002	Lake Isle Estates – Winter Park	NO_2 Community-wide Monitor
Jacksonville	12-031-0032	Kooker Park	NO_2 Community-wide Monitor
	12-031-0108	Pepsi Place Near-road	NO_2 Near-road
Sarasota-Bradenton-Venice	12-115-1006	Paw Park	NO_2 Network

4.8 CO MONITORING NETWORK

Florida's carbon monoxide (CO) network covers large urban areas to smaller rural areas, totaling 14 monitoring sites. This network enables the state of Florida to monitor the consistent decrease in CO emissions within the state and to identify the parts of the state with peak CO concentrations. Table 4.9 lists all CO monitoring stations within the state and any exceedances for calendar years 2013 to 2015.

Table 4.9 Florida's CO Network

AQS Site #	Site Name	Pollutant	Exceedances for 2013-2015	Comments
12-011-0034	Daniela Banu (NCore Site)	CO	0	
12-011-0035	Fort Lauderdale Near Road	CO	0	Supports Near-road NO_2 Monitoring
12-086-0034	Kendall	CO	0	
12-086-4002	Lab Annex	CO	0	
12-057-0113	Munro Street	CO	0	Supports Near-road NO_2 Monitoring
12-057-3002	Sydney (NCore Site)	CO	0	
12-103-0027	Sawgrass Lake Park	CO	0	Supports Near-road NO_2 Monitoring
12-103-2008	Gateway	CO	0	
12-031-0080	Southside Playground	CO	0	
12-031-0084	Rosselle	CO	0	
12-031-0108	Pepsi Place	CO	0	Supports Near-road NO_2 Monitoring
12-095-2002	Lake Isle Estates - Winter Park	CO	0	
12-129-0001	St. Marks Wildlife Refuge (NCore Site)	CO	0	

4.9 PM_{10} MONITORING NETWORK

- *The Federal Reference Method and Federal Equivalent Method Network*

Florida's PQAO currently operates 6 federal reference method (FRM) and 15 federal equivalent method (FEM) monitors. This network is sufficient to protect the health and welfare of Florida's residents and environment. It also provides information on how PM_{10} particles are transported to and within the state, to identify the parts of the state with the highest concentrations, and to determine where PM_{10} concentrations do and do not exceed the NAAQS. All of Florida's PM_{10} monitoring sites meet the NAAQS for calendar years 2013 to 2015, as detailed in Table 4.10.

Table 4.10 Florida's PM_{10} Network

AQS Site #	Site Name	Pollutant	Method: FRM/FEM	Operating Schedule	Exceedances for 2013-2015	Comments
12-011-0034	Daniela Banu (NCore Site)	PM_{10}	FRM	Every 6th Day	0	
		PM_{10}	FRM	Every 6th Day	0	Collocated FRM monitor
12-011-2003	Pompano Highland Fire House	PM_{10}	FEM	Continuous	0	
12-011-5005	Coconut Creek	PM_{10}	FRM	Every 6th Day	0	
12-086-1016	Miami Fire Station	PM_{10}	FRM	Every 6th Day	0	
		PM_{10}	FRM	Every 6th Day	0	Collocated FRM monitor
12-099-0021	Lantana Preserve	PM_{10}	FEM	Continuous	0	
12-057-0083	Gardinier Park	PM_{10}	FEM	Continuous	0	
12-057-1035	Davis Island (Coast Guard Station)	PM_{10}	FEM	Continuous	0	
12-057-3002	Sydney (NCore Site)	PM_{10}	FRM	Every 6th Day	0	
		PM_{10}	FRM	Every 12th Day	0	Collocated FRM monitor
12-103-0012	Woodlawn	PM_{10}	FRM	Every 6th Day	0	
12-103-3004	County Motorpool	PM_{10}	FRM	Every 6th Day	0	
		PM_{10}	FRM	Every 12th Day	0	Collocated FRM monitor
12-031-0032	Kooker Park	PM_{10}	FEM	Continuous	0	

12-031-0084	Rosselle	PM_{10}	FEM	Continuous	0	
12-095-2002	Lake Isle Estates - Winter Park	PM_{10}	FEM	Continuous	0	
12-117-1002	Seminole Community College	PM_{10}	FEM	Continuous	0	
12-115-1006	Paw Park	PM_{10}	FEM	Continuous	0	
12-071-0005	Winkler Pump Station	PM_{10}	FEM	Continuous	0	
12-105-6006	Baptist Children's Home	PM_{10}	FEM	Continuous	0	
12-127-5002	Daytona - Blind Services	PM_{10}	FEM	Continuous	0	
12-009-0007	Melbourne	PM_{10}	FEM	Continuous	0	
12-091-0002	Fort Walton Beach	PM_{10}	FEM	Continuous	0	
12-107-1008	Palatka Barge Port	PM_{10}	FEM	Continuous	0	

4.10 LEAD MONITORING NETWORK

The requirement to conduct lead (Pb) monitoring at NCore sites has been removed from 40 CFR Part 58, Appendix D 3(b), due to evidence that the background levels of lead at NCore sites were negligible. In the past four years of Pb-PM_{10} monitoring at the Hillsborough County NCore site, Sydney (AQS Site #12-057-3002), the highest sample concentration reported was 0.008 µg/m^3 and the 2013-2015 design value was 0.00 µg/m^3. In accordance with the Monitoring Rule modifications, DEP discontinued lead monitoring at the Hillsborough County NCore site effective June 30, 2016.The lead source monitoring requirements are currently being met by established monitors (see Table 4.11 below).

Table 4.11 Florida's Lead Source Monitoring Network

AQS Site #	Site Name	2013-2015 Design Values
12-057-0100	Kenly	0.01
12-057-1066	Gulf Coast Lead	0.49
12-057-1073	Patent Scaffolding	0.14

As part of the review for the Annual Air Monitoring Network Plan, airport emissions in the state were reviewed. EPA's 2014 National Emission Inventory did not report any airport emissions, within the state, that exceeded the 1 ton per year (tpy) threshold and consequently monitoring is not required.

TECO Big Bend in Hillsborough County and Duke Energy at Crystal River in Citrus County reported more than 0.5 tpy of total lead (elemental lead and lead compounds) in their 2015 Annual Operating Reports while JEA Northside in Duval County reported less than 0.5 tpy. The TECO Big Bend and Duke Energy facilities were modeled to determine if the ambient concentrations would be less than 50 percent of the lead NAAQS and the results demonstrated that the concentrations were less than 1 percent of the NAAQS, thereby removing the requirement for lead monitoring. The waivers from ambient monitoring per 40 CFR Part 58, Appendix D, 4.5 (ii), are included in Appendix D.

The 2011 National Emissions Inventory (NEI) reported IFF Chemical's lead emissions in excess of 0.5 tpy. However, the emission factor was incorrectly reported and the corrections resulted in concentrations of 0.0015 tpy for 2011. The most recent data submitted for the 2014 NEI reports even lower lead emissions of 0.0009 tpy, further verifying that annual lead emissions are below 0.5 tpy and lead monitoring is not required for this source.

5.0 MONITORING WAIVERS

A. LEAD MONITORING WAIVERS

- *NCore Sites*

EPA has removed the requirement to conduct lead monitoring at NCore sites as part of changes to 40 CFR Part 58. This change was made in response to overwhelming evidence that background levels of lead at NCore sites were nearly zero nationally.

Four years of lead monitoring at the Hillsborough County NCore site, Sydney – AQS Site # 12-057-3002, the highest sample concentration was 0.008 $\mu g/m^3$ and the 2013-2015 design value for Pb-PM_{10} was 0.00 $\mu g/m^3$. Consequently, DEP is requesting a permanent waiver from monitoring lead at NCore sites in Hillsborough County at Sydney and Broward County at the Daniela Banu site (AQS # 12-011-0034).

- *Source Monitoring*

Per 40 CFR Part 58, Appendix D, 4.5(ii), the Regional Administrator may waive the requirement for ambient air lead monitoring near sources that are expected to contribute a maximum concentration that exceeds the NAAQS, if the State can demonstrate, through modeling, that the lead source will not contribute a maximum concentration in ambient air that exceeds 50 percent of the NAAQS.

In 2015 TECO Big Bend and Duke Energy were the only facilities that reported more than 0.5 tpy of total lead (elemental lead and lead compounds) in their Annual Operating Reports. DEP conducted modeling using AirMod for these facilities and the results demonstrated that all lead concentrations from the facilities were less than 50 percent of the NAAQS. Lead contributions from each facility resulted in concentrations less than one percent of the NAAQS, results that were consistent with 2014 emissions modeling results. JEA Northside in Duval County was not modeled for 2015 because they reported less than 0.5 tpy in their Annual Operating Reports. 2014 and 2015 lead emissions and modeling results are summarized in Tables 5.1 and 5.2, respectively.

Table 5.1 2014 NEI Lead Emissions and Modeled Ambient Concentrations

Company Owner	Facility Name	2014 Total Lead (tpy)	2010-2015 Maximum Modeled 3-month average ($\mu g/m^3$)	Percent of Lead NAAQS
Duke Energy Florida, LLC.	Crystal River Power Fossil Plant	1.088476	0.00040	0.27
Tampa Electric Company (TEC)	Big Bend Station	0.934627	0.00059	0.39
JEA	Northside/SJRPP	0.911307	0.00050	0.33

Table 5.2 2015 NEI Lead Emissions and Modeled Ambient Concentrations

Company Owner	Facility Name	2015 Total Lead (tpy)	2012-2016 Maximum Modeled 3-month average (µg/m^3)	Percent of Lead NAAQS
Duke Energy Florida, LLC.	Crystal River Power Fossil Plant	0.9306	0.00032	0.21
Tampa Electric Company (TEC)	Big Bend Station	0.6221	0.00060	0.40

B. NEAR-ROAD MONITORING WAIVERS

The Interstate-4 (I-4) Near Road ambient monitoring site (AQS Site #: 12-095-0009) for the Orlando-Kissimmee CBSA is temporary located within the FDOT I-4 Ultimate Improvement Project construction area. Construction in the area is expected to continue for another four to five years. The original site location was within a staging area for the I-4 project, therefore EPA granted a waiver for temporary placement of the site beneath an overpass adjacent to a supporting pillar, until active construction was completed. Siting conditions at the temporary site have significantly changed and resulted in a substantial impact on monitoring activities.

There is increased activity of heavy machinery (cranes, generators, dump trucks, etc.) within 10 meters of the air monitoring shelter. The nearby construction activities also resulted in substantial vibrations within the shelter, which expedited the deterioration and malfunction of the monitoring instruments.

To mitigate the effects of the construction activity, Orange County employed the following measures:

- Installation of a HEPA filtration system within the shelter,
- Bi-weekly replacement of air conditioning unit filters, and
- Installation of anti-vibration padding for the analyzer and calibration instruments.

The air turbulence from drilling activities and exhaust produced by the construction equipment is influencing the data collected and is not representative of ambient air conditions. Consequently, EPA and FDEP advised Orange County to apply construction and siting criteria qualifier flags to the data collected as of January 1, 2017.

The mitigation efforts employed did not resolve the instrument issues and frequent instrument calibrations and repairs have been resource intensive. Since the commencement of monitoring in July 2016, there has been significant data loss and consumption of resources to maintain this site, as detailed in Tables 5.3 and 5.4 below. Most of the data loss was due to instrument malfunction, contamination, abnormal drift and/or inability to meet data quality assurance standards.

Table 5.3 Orange County Near Road Data Loss due to I-4 Construction

Pollutant	Data Hours Lost	Period of Data Loss	Reason for Data Loss
NO_2	746	07/2016-03/2017	Contamination of the 42i reaction chamber.
CO	3,816	07/2016-03/2017	Poor quality assurance results of the analyzer calibration due to the deterioration of the 146i.
$PM_{2.5}$	575	01/2017-03/2017	Misalignment of the 5014i beta source assembly.
Total	5,137 Hrs.		

Table 5.4 Estimated Cost for Factory Repairs[1]

Instrument	Repair Costs
TEI 42i	$2,800 x 3 units
TEI 48i	$2,500 x 1 unit
TEI 146i	$2,500 x 1 unit
TEI 5014i	$2,200 x 1 unit
Total	$15,600

[1]Cost does not include additional repair performed while instrument was under warranty or in-house repairs of individual parts or shelter maintenance.

In lieu of these failed mitigation attempts, exhausted resources and the unavailability of an alternate I-4 near-road location, FDEP requests a temporary monitoring waiver for this site effective 7/1/2017. This waiver will be effective until the construction activities around the original proposed I-4 Near Road site are completed. Correspondence from Region 4 EPA is provided below, which states approval to suspend monitoring at the Orange County I-4 Near Road site.

Figure 5.1 Region 4 EPA Correspondence regarding the I-4 Near Road Monitoring Waiver.

From: Garver, Daniel
To: Todd.Fletcher@ocfl.net; Thomas, Oriene (Saphique); Veazey, Sandra
Cc: Brown, Ryan; Rinck, Todd
Subject: Orange County Near Road Site
Date: Wednesday, June 07, 2017 4:37:43 PM

Hi Todd, Sandra, and Saphique,

We had a discussion with our attorney about the ongoing construction adjacent to the I-4 near road site, and the adverse impacts of the vibrations from installing pillars and other construction-related activities to the data quality and equipment at the site. We think that the best approach would be for you all to describe the situation and the effects on the data and equipment in the upcoming network plan, and request a temporary discontinuation of the monitors at the site. Our expectation would be that monitoring will resume once construction activities in the immediate vicinity of the site have changed or subsided enough that collection of quality data can resume without damage to the equipment. In the interest of not causing further problems with the equipment, we are supportive of you all beginning this temporary discontinuation as soon as practical, and we will plan on approving the temporary discontinuation in our response to the 2016-2017 network plan. Please let me know if you have any questions about this approach.

Thanks,

Daniel Garver
Environmental Scientist
US EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
(404) 562-9839

C. SITING CRITERIA

In accordance with 40 CFR 58, Appendix E, Section 10: Waiver Provisions, EPA will consider a written request from the State agency to waive one or more siting criteria for some monitoring sites if the State can adequately demonstrate the need (purpose) for monitoring at that location. For existing sites, a waiver may be granted if either of the criteria in sections 10.1.1 and 10.1.2 are met:

10.1.1 The site can be demonstrated to be as representative of the monitoring area as it would be if the siting criteria were being met.

10.1.2 The monitor or probe cannot reasonably be located so as to meet the siting criteria because of physical constraints (e.g., inability to locate the required type of site the necessary distance from roadways or obstructions).

In this section, DEP demonstrates that the siting waiver requests below meet the criteria of 10.1.1 and requests approval from the EPA's Regional Administrator.

- *Pinellas County - Woodlawn*

DEP is requesting a waiver from the dripline siting requirements for the PM_{10} sampler in Pinellas County at the Woodlawn site, AQS Site # 12-103-0012. A site review conducted on July 8, 2015 and July 13, 2016 found that the siting requirements in 40 CFR Part 58 Appendix E, Table E-4 could not be met. The tree dripline is 6.7 meters from the PM_{10} sampler. The most recent site review information is provided in Table 5.5.

The site is on the edge of the neighborhood adjacent to an industrial area just west of the site, where elevated PM_{10} concentrations would not be unusual, especially due to its proximity to a cement plant (Carroll's Building Materials). There is unrestricted airflow 270° around the sampler and the tree in question is to the east, therefore it does not impact the direction of concern. The tree is located on the St. Petersburg Parks Department's property and requests for the removal of the tree were denied.

The site has been in operation since 1992 and Pinellas county would prefer to continue operation of the site to meet local interests. Data collected pre- and post-discovery of siting issues correlate well and show negligible variability for the PM_{10} concentrations. Additionally, a data comparison of Woodlawn and Davis Island demonstrates similar and consistent PM_{10} concentrations within the last 10 years (see Figures 5.4 and 5.5 below).

Table 5.5 2016 Site Review of Woodlawn - AQS Site #12-103-0012

	Woodlawn Site
AQS Site #	12-103-0012
City (CBSA)	St. Petersburg
Site Name	Woodlawn
Statement of Purpose	Needed by Regulation
Site Review Date	7/13/2016
County	Pinellas
Location Latitude	27.785556 N
Location Longitude	-82.658333 W
Address	1313 19th St. N.
Objective	High Concentration
Pollutants Monitored	PM_{10}
Sampling and Analysis Method	Anderson 1200, Gravimetric Analysis
Spatial Scale	Neighborhood
Operating Schedule	Manual
Network Type	SLAMS
Distance from Inlet to nearest:	Wall/Inlet = 29 meters Tree Dripline = 6.7 meters Road = 6.93 meters
Access	Unlimited
Inlet Height	2.89 meters
Comments	Located on an elevated platform beside 19th Street North. Distance from trees within 10 meters; does not meet siting criteria.

Figure 5.2 Street View showing Newly Planted Trees

Figure 5.3 East of Woodlawn Site

Figure 5.4 PM_{10} concentrations for Woodlawn from 2007-2016

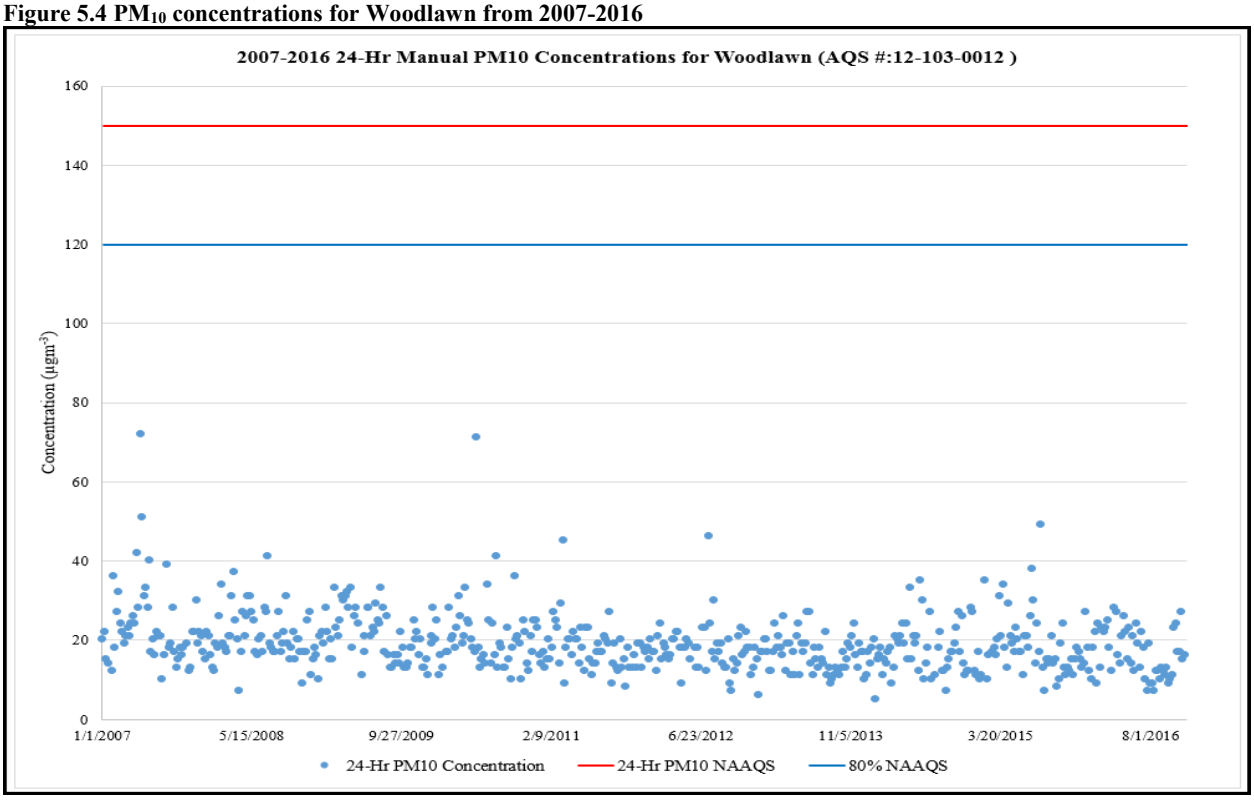


Figure 5.5 Monthly PM_{10} Averages at Woodlawn and Davis Island for 10 years.

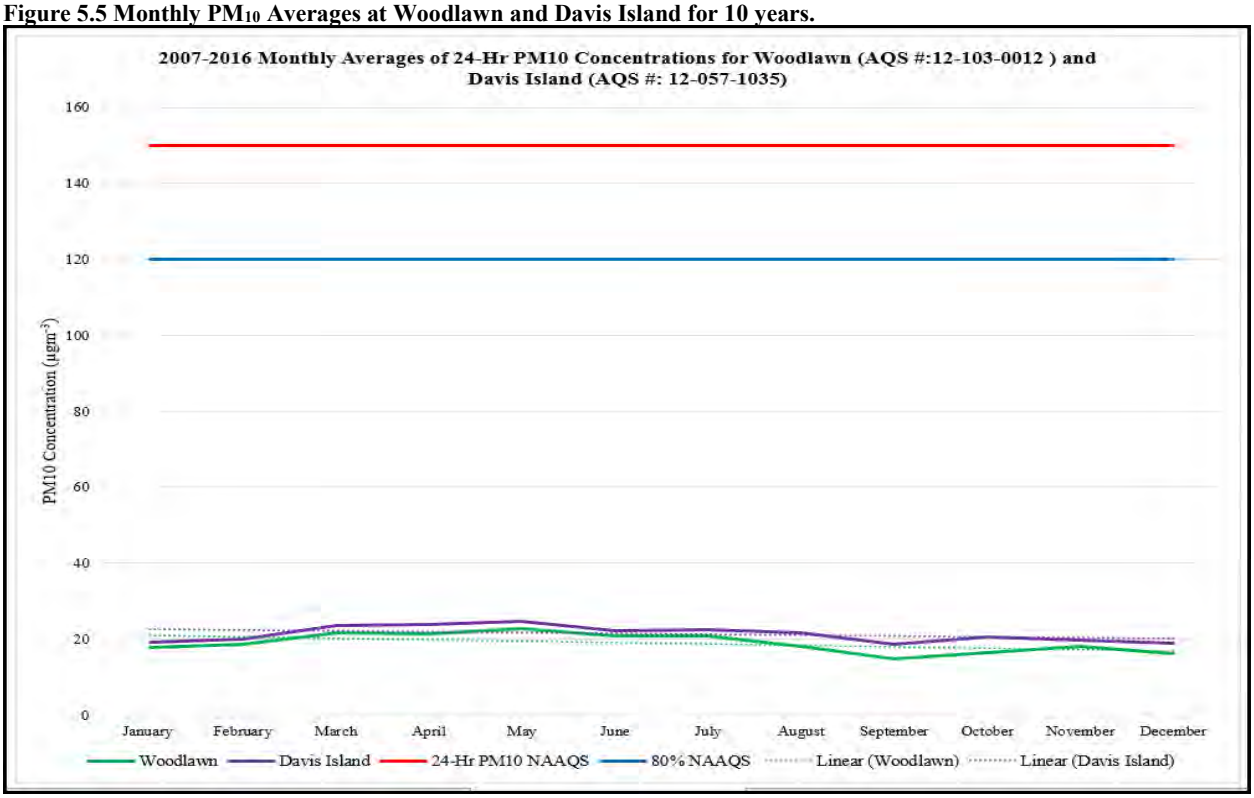


Figure 5.6 Woodlawn Site and PM_{10} Source

- *Hillsborough County – Davis Island*

DEP is requesting a waiver from the siting requirements for the Davis Island site (AQS Site # 12-057-1035) in Hillsborough County. Site reviews conducted on July 17, 2015 and July 20, 2016 found that the siting requirements in 40 CFR Part 58 Appendix E, Table E-4 could not be met. An oak tree to the northeast of the site was within 10 meters of the inlets. The most recent site review information is provided in Table 5.6. The tree in question is located on the City of Tampa's property and they have not responded to any requests regarding its removal.

The site has been in operation for 33 years and the county would prefer to continue operation of the site to meet local interests. Data collected pre- and post-discovery of siting issues correlate well and show negligible variability for the ozone and SO_2 concentrations. A comparison of the monthly averaged 1-hour and 8-hour ozone data at USMC Reserve Center (AQS Site # 12-057-1065), located approximately 14.4 miles southwest of Davis Island, resulted in consistent, comparable concentrations and showed that the data have not been impacted by the siting issues (see Figures 5.7 through 5.11 below).

Table 5.6 2016 Site Review of Davis Island – AQS Site # 12-057-1035

	Davis Island Site
AQS Site #	12-057-1035
City (CBSA)	Tampa
Site Name	Davis Island
Statement of Purpose	Needed by Regulation
Site Review Date	7/20/2016
County	Hillsborough
Location Latitude	27.928356 N
Location Longitude	-82.454539 W
Address	155 Columbia Dr.
Objective	Population Exposure
Pollutants Monitored	Ozone, SO_2 and Continuous PM_{10}
Sampling and Analysis Method	Ozone: TEI 49i, UV Photometry
Spatial Scale	Neighborhood
Operating Schedule	Continuous
Network Type	SLAMS
Distance from Inlet to nearest:	Wall/Inlet = 20 meters Tree Dripline = 7.2 meters Road = 35 meters
Access	Unlimited
Inlet Height	4.36 meters
Comments	Distance from trees within 10 meters; does not meet siting criteria.

Figure 5.7 Daily 1-hr Max Ozone Conc. at Davis Island from 2007-2016

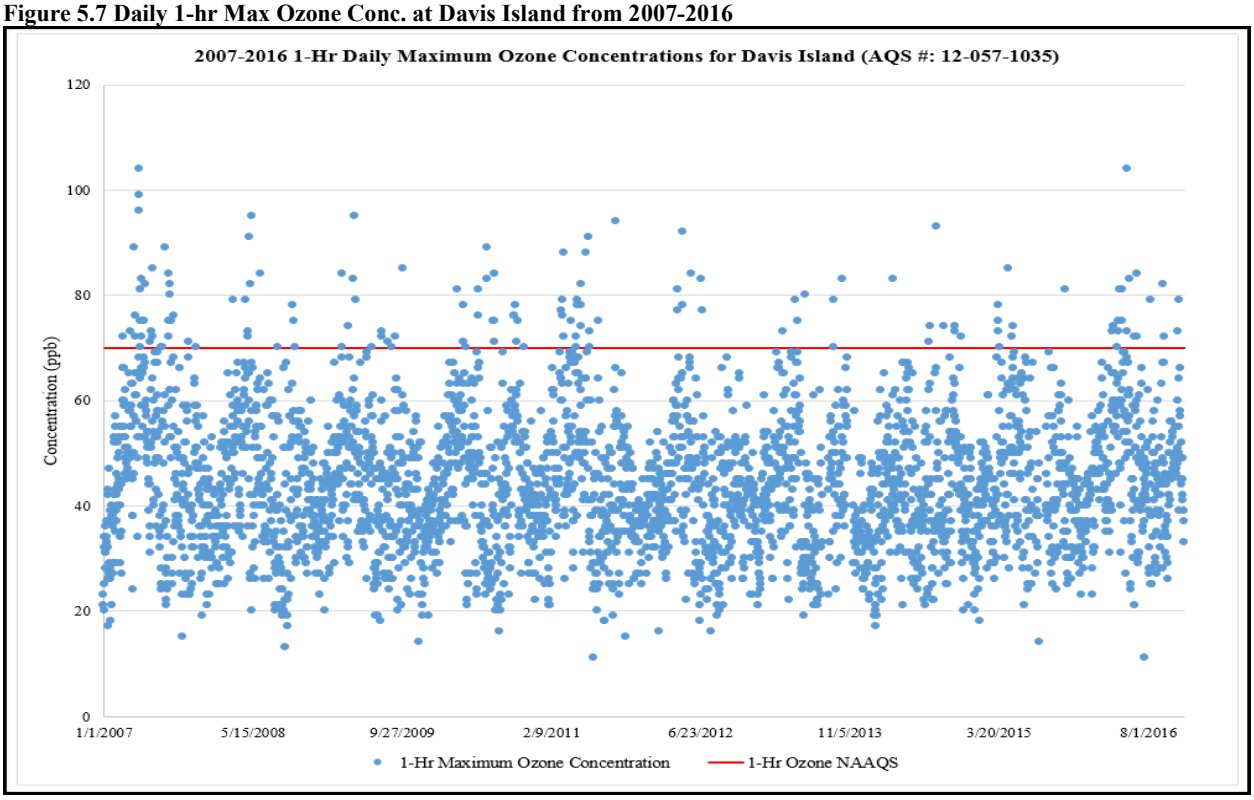


Figure 5.8 Daily 8-hr Max Ozone Conc. at Davis Island from 2007-2016

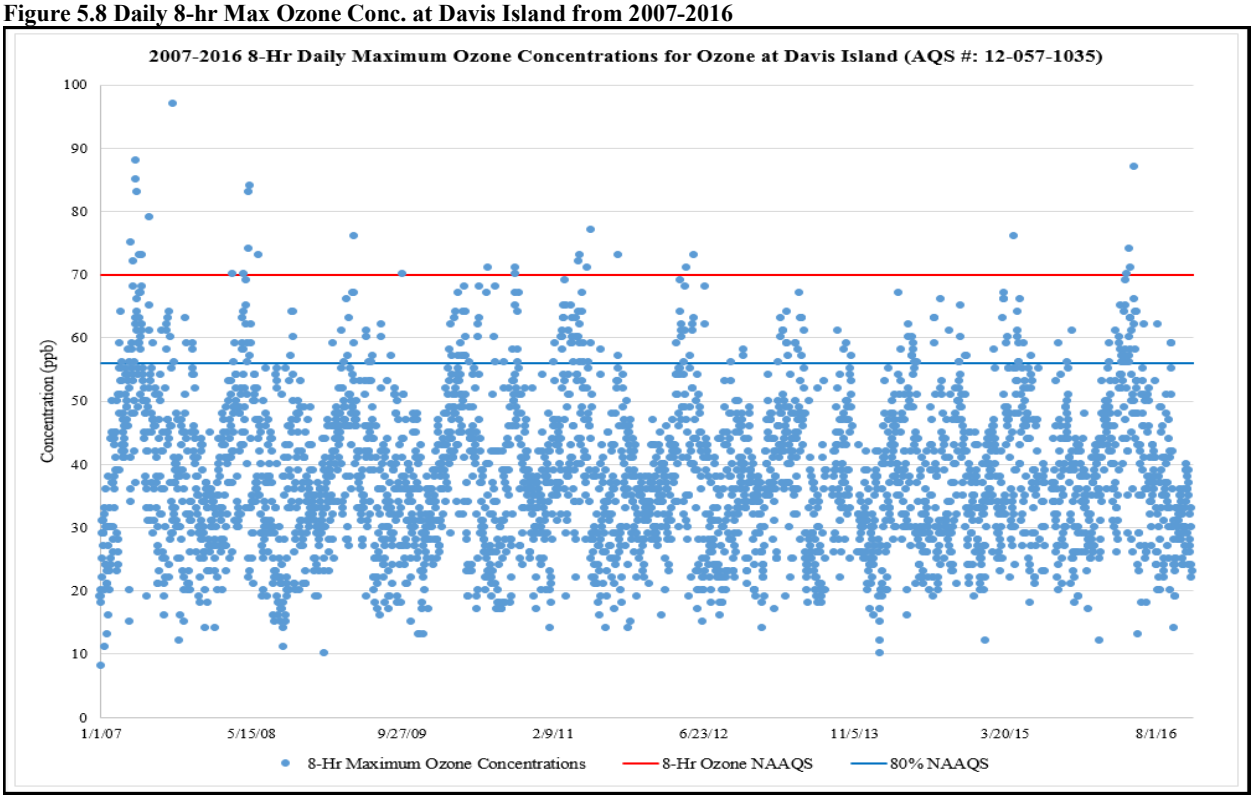


Figure 5.9 1-hr Max Monthly Averages of Ozone Conc. at Davis Island and USMC Reserve Center for 10 years.

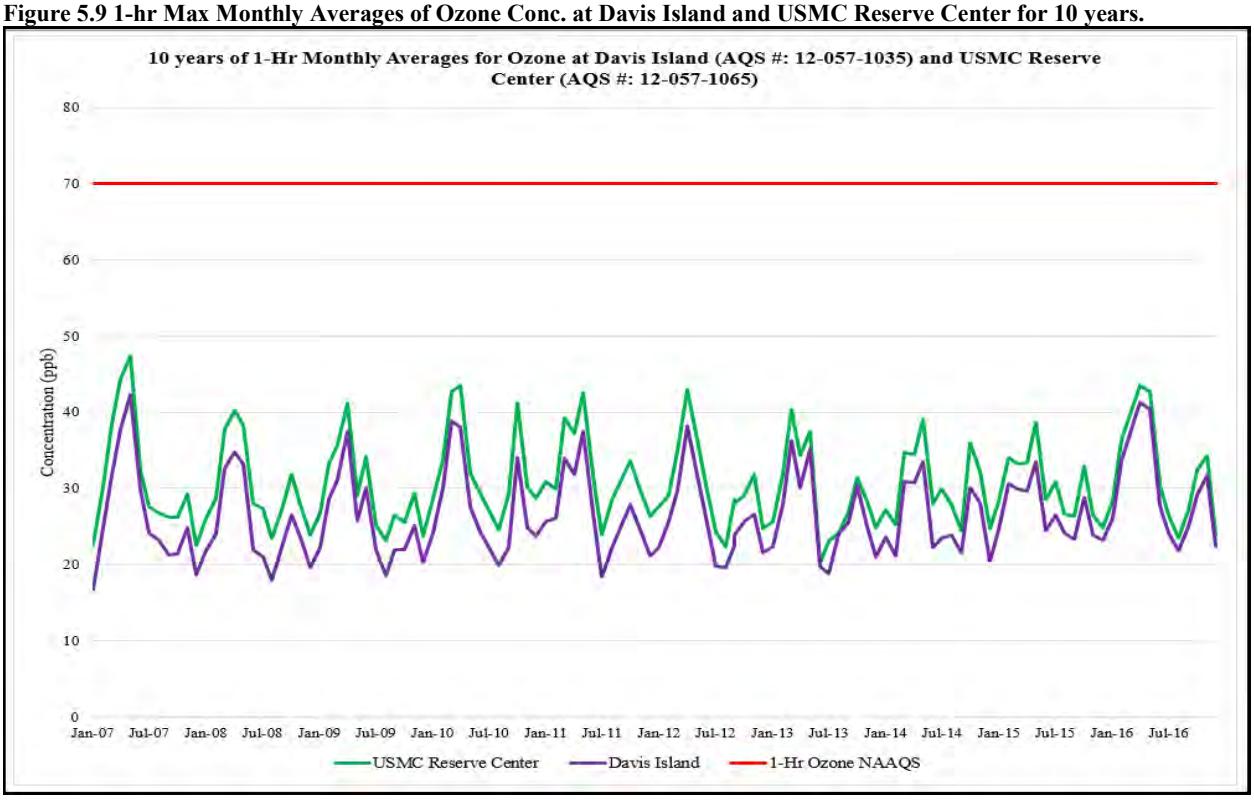


Figure 5.10 1-hr Max Monthly Averages of Ozone Conc. at Davis Island and USMC Reserve Center for 10 years.

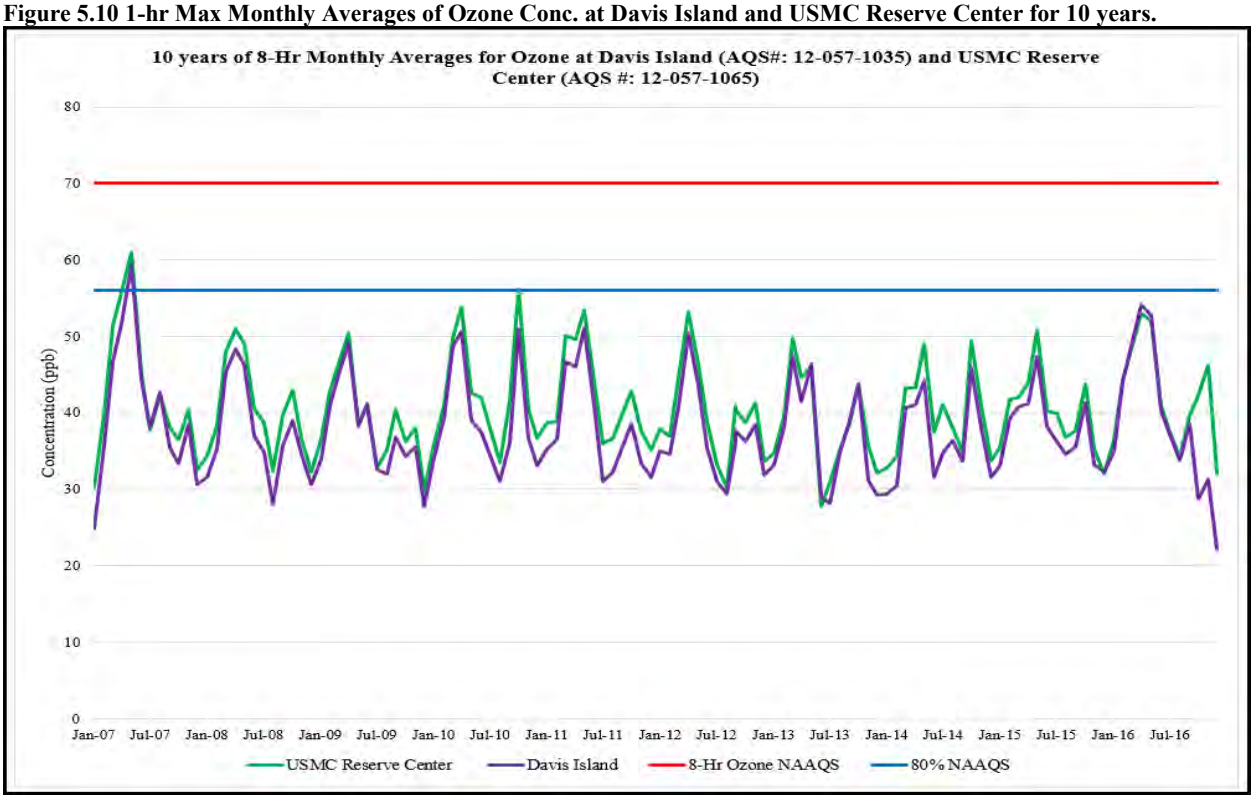
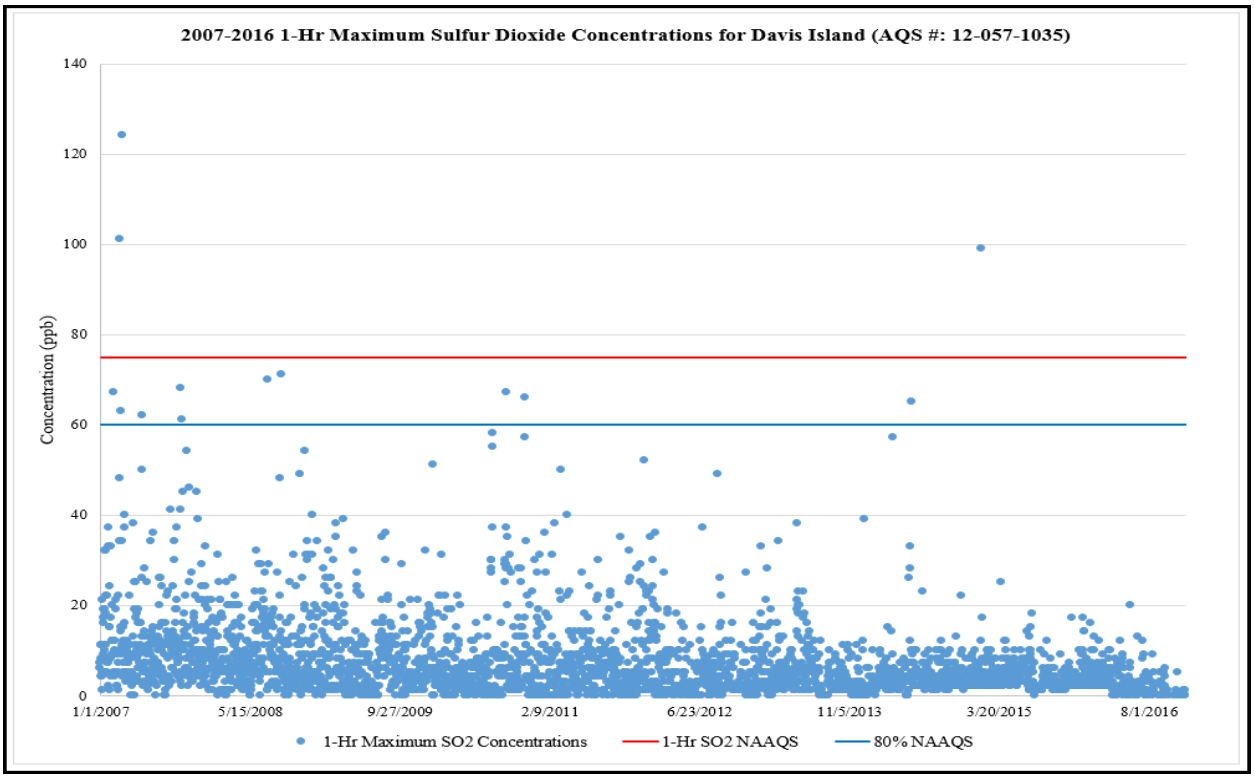


Figure 5.11 Daily 1-hr Max SO_2 Conc. at Davis Island from 2007-2016



- *Polk County – Baptist Children's Home*

DEP is requesting a waiver from the siting requirements for the Baptist Children's Home site (AQS Site # 12-105-6006) in Polk County. Site reviews conducted in 2016 on February 16th and October 18th, noted that the siting requirements in 40 CFR Part 58 Appendix E, Table E-4 could not be met. An oak tree is located on the Florida Baptist Children's Home property and is within 10 meters of the probe inlet. The most recent site review information is provided in Table 5.7. The site was original placed to evaluate if there was any correlation of high ozone reading with Hillsborough County. Numerous requests for the removal of the tree were denied.

The site has been in operation for 21 years and the state would prefer to continue operation of the site to meet citizen interests and spatial coverage. Data collected pre- and post-discovery of siting issues correlate well and show negligible variability for the ozone and $PM_{2.5}$ concentrations. A comparison of the monthly averaged 1-hour and 8-hour ozone data to Sikes Elementary (AQS Site # 12-105-6005), located approximately 9.5 miles southwest of Baptist Children's Home, resulted in consistent, comparable concentrations and show that the data have not been impacted by the siting issues (see Figures 5.12 through 5.16 below).

Table 5.7 2016 Site Review of Baptist Children's Home – AQS Site # 12-105-6006

	Baptist Children's Home Site
AQS Site #	12-105-6006
City (CBSA)	Lakeland
Site Name	Baptist Children's Home
Statement of Purpose	Needed by Regulation
Site Review Date	10/18/2016
County	Polk
Location Latitude	28.028889 N
Location Longitude	-81.972222 W
Address	1015 Sikes Blvd, Lakeland, FL 33815
Objective	Highest Concentration and Population Exposure
Pollutants Monitored	Ozone, Continuous PM_{10}, Continuous $PM_{2.5}$ and Manual $PM_{2.5}$
Sampling and Analysis Method	Ozone: TEI 49i, UV Photometry; Continuous PM_{10} and Continuous $PM_{2.5}$: TEOM 1400AB, Gravimetric Analysis; Manual $PM_{2.5}$: Thermo 2025, Gravimetric Analysis
Spatial Scale	Neighborhood
Operating Schedule	Continuous and Manual
Network Type	SLAMS
Distance from Inlet to nearest:	Wall/Inlet = Ozone: 2.1 meters; Manual $PM_{2.5}$: 1.6 meters Tree Dripline = Ozone: 5.8 meters; Manual $PM_{2.5}$: 8.1 meters Road = 107 meters
Access	Unlimited
Inlet Height	Ozone, Continuous $PM_{2.5}$ and Continuous PM_{10}: 4.2 meters; Manual $PM_{2.5}$: 2.2 meters
Comments	Distance from trees within 10 meters and the angle is >26.5°; does not meet siting criteria.

Figure 5.12 Daily 1-hr Max Ozone Conc. at Baptist Children's Home from 2007-2016

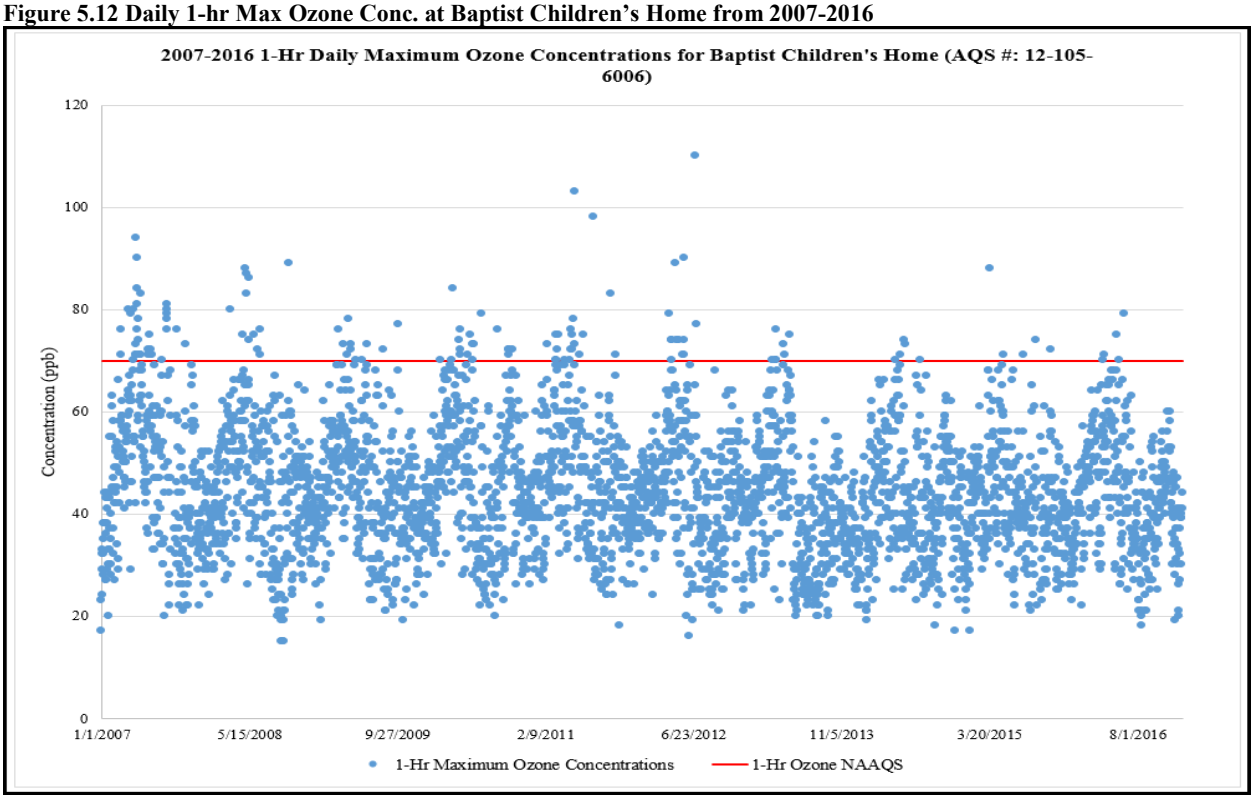


Figure 5.13 Daily 8-hr Max Ozone Conc. at Baptist Children's Home from 2007-2016

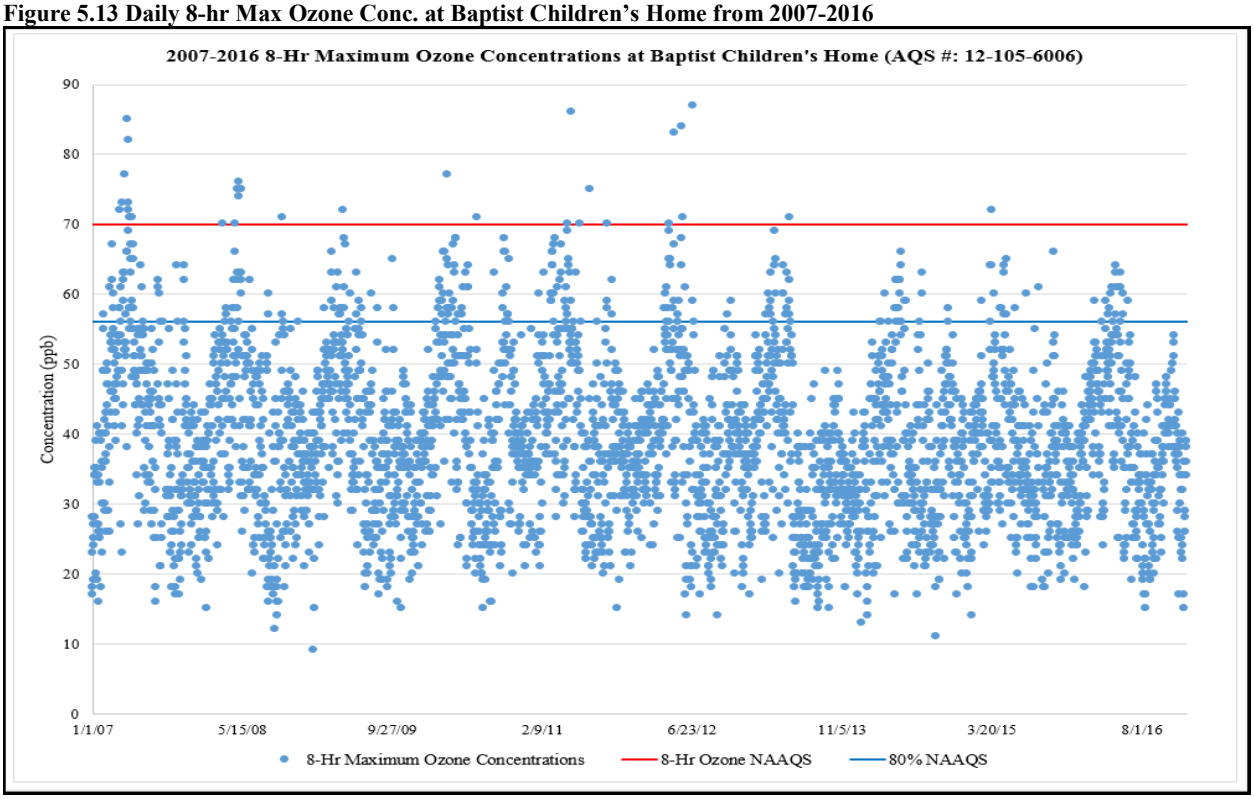


Figure 5.14 1-hr Max Monthly Averages of Ozone Conc. at Baptist Children's Home and Sikes Elementary for 10 years.

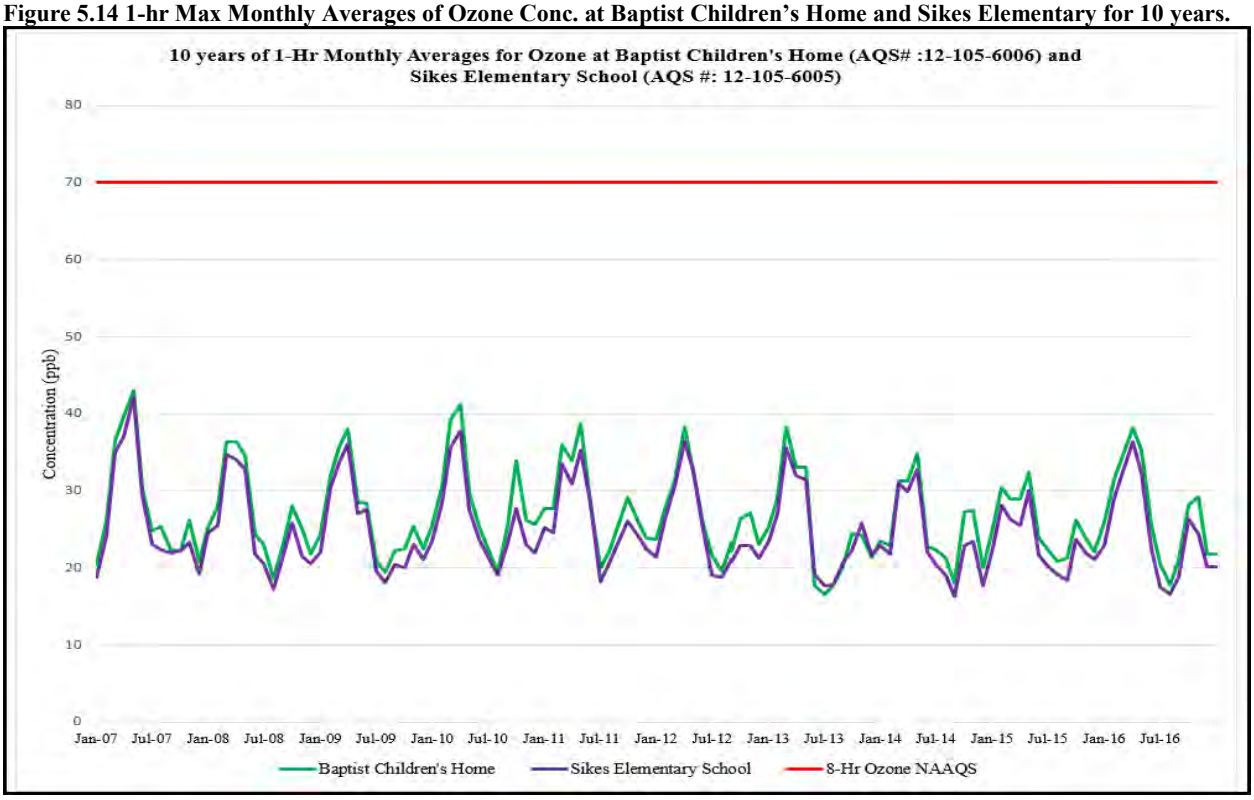


Figure 5.15 8-hr Max Monthly Averages of Ozone Conc. at Baptist Children's Home and Sikes Elementary for 10 years.

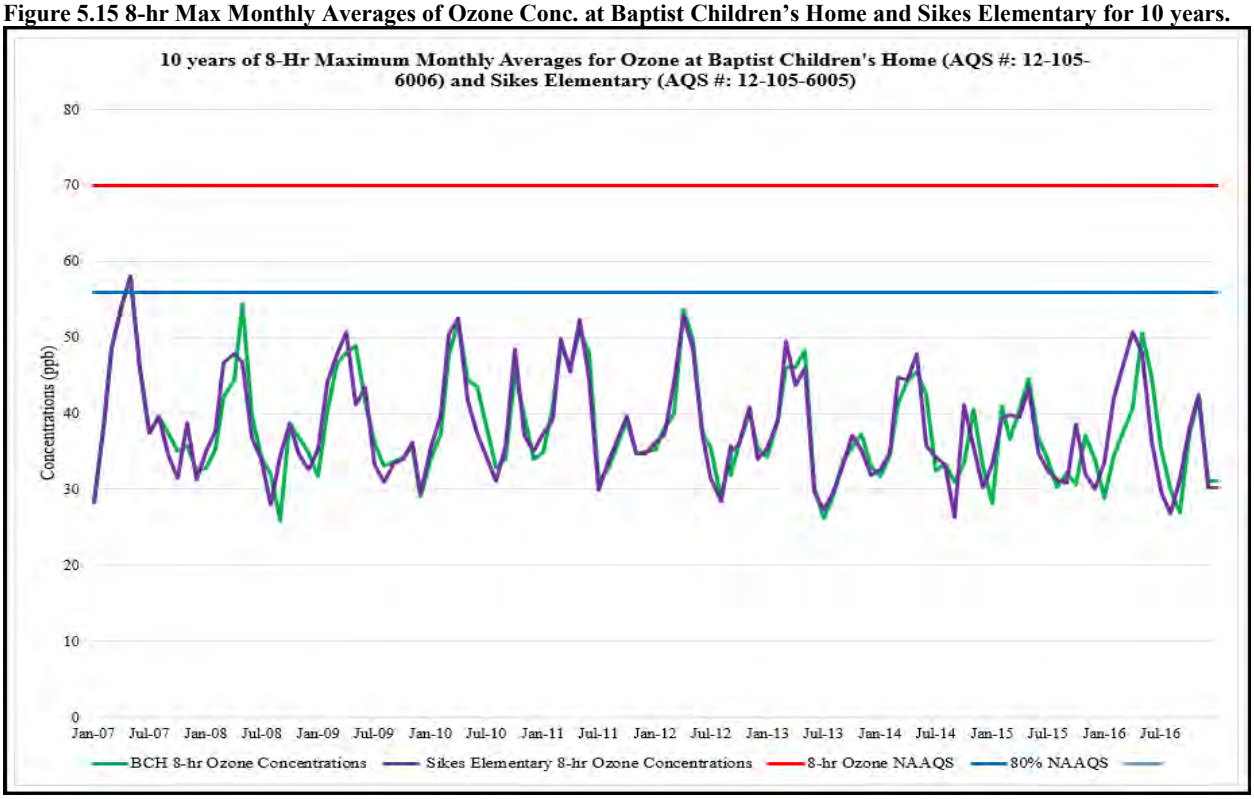
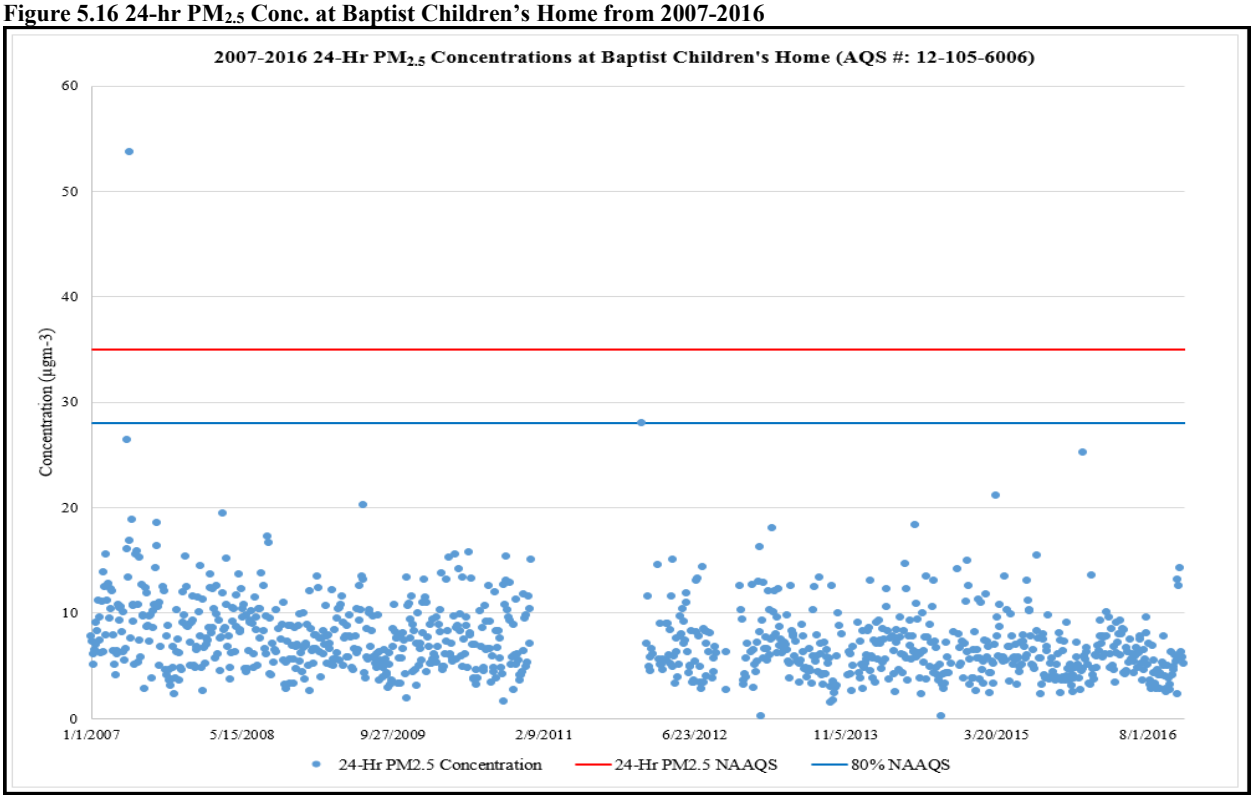


Figure 5.16 24-hr $PM_{2.5}$ Conc. at Baptist Children's Home from 2007-2016



- *Osceola County – Osceola Co. Fire Station*

DEP is requesting a waiver from the siting requirements for the Osceola Co. Fire Station site (AQS Site # 12-097-2002) in Polk County. The site was originally placed to monitor ozone concentrations in proximity to the population centers in Osceola County and the Four Corners area. Site reviews conducted on November 20, 2014; October 14, 2015 and October 25, 2016 identified a sycamore tree and vegetation that was above 26.5° and within 10 meters of the probe inlets, respectively. The tree and vegetation are located on the neighboring property and requests for the removal and trimming were denied, therefore the siting requirements in 40 CFR Part 58 Appendix E, Table E-4 could not be met. The most recent site review information is provided in Table 5.8.

The site has been in operation for 25 years and the state would prefer to continue operation of the site to meet citizen interests and spatial coverage. The ozone data collected pre- and post-discovery of siting issues trend well, as demonstrated in Figures 5.17 and 5.18. A comparison of the monthly averaged 1-hour and 8-hour ozone data at Clermont (AQS Site # 12-069-0002), located approximately 13.43 miles northwest of the Osceola site, resulted in consistent, comparable concentrations and show that the data have not been impacted by the siting issues. These results are shown in Figures 5.19 and 5.20 below.

Table 5.8 2016 Site Review of Osceola Co. Fire Station – AQS Site # 12-097-2002

	Osceola Co. Fire Station Site
AQS Site #	12-097-2002
City (CBSA)	Kissimmee
Site Name	Osceola Co. Fire Station
Statement of Purpose	Needed by Regulation
Site Review Date	10/25/2016
County	Osceola
Location Latitude	28.347509 N
Location Longitude	-81.636464 W
Address	8706 W Irlo Bronson Memorial Hwy (SR 192)
Objective	Highest Concentration
Pollutants Monitored	Ozone
Sampling and Analysis Method	Ozone: TEI 49i, UV Photometry
Spatial Scale	Urban
Operating Schedule	Continuous
Network Type	SLAMS
Distance from Inlet to nearest:	Wall/Inlet = 17 meters Tree Dripline = 6.5 meters Road = 120 meters
Access	Unlimited
Inlet Height	4.1 meters
Comments	Distance from trees within 10 meters and above 26.5°; does not meet siting criteria.

Figure 5.17 Daily 1-hr Max Ozone Conc. at Osceola Co. Fire Station from 2007-2016

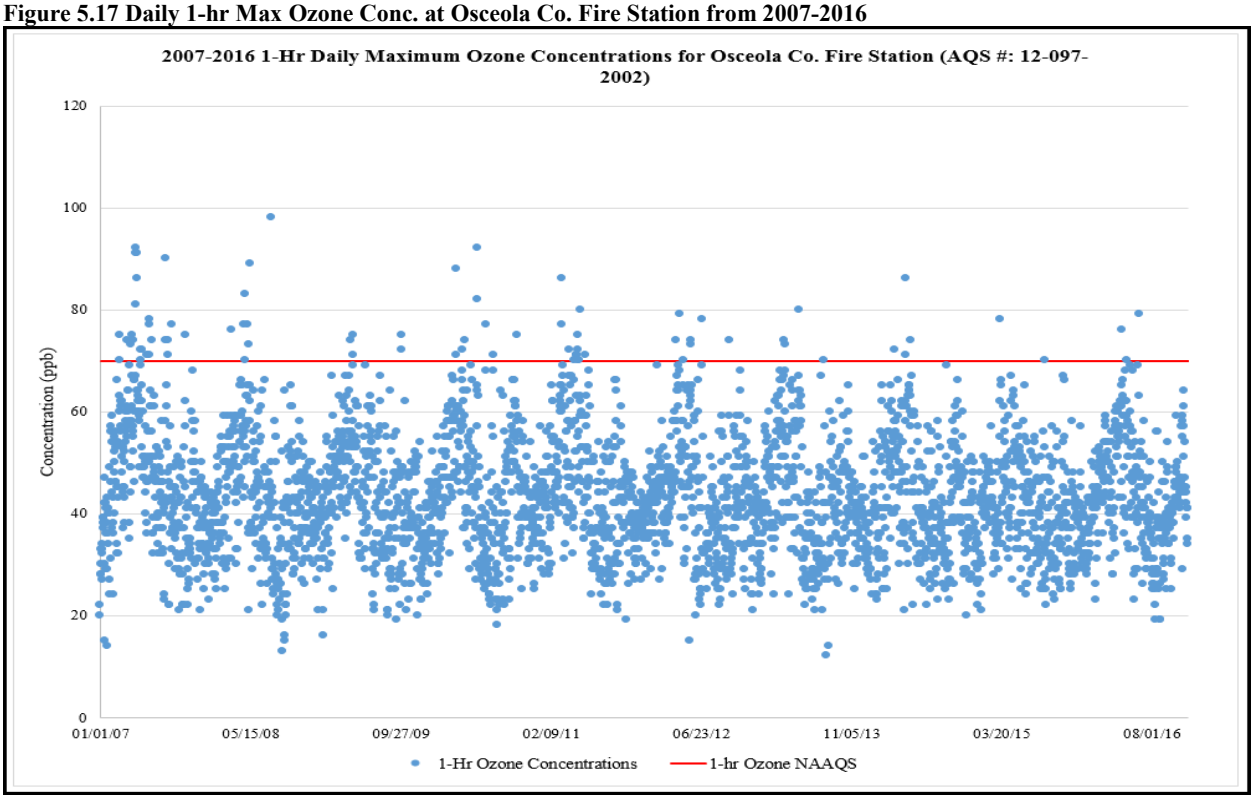


Figure 5.18 Daily 8-hr Max Ozone Conc. at Osceola Co. Fire Station from 2007-2016

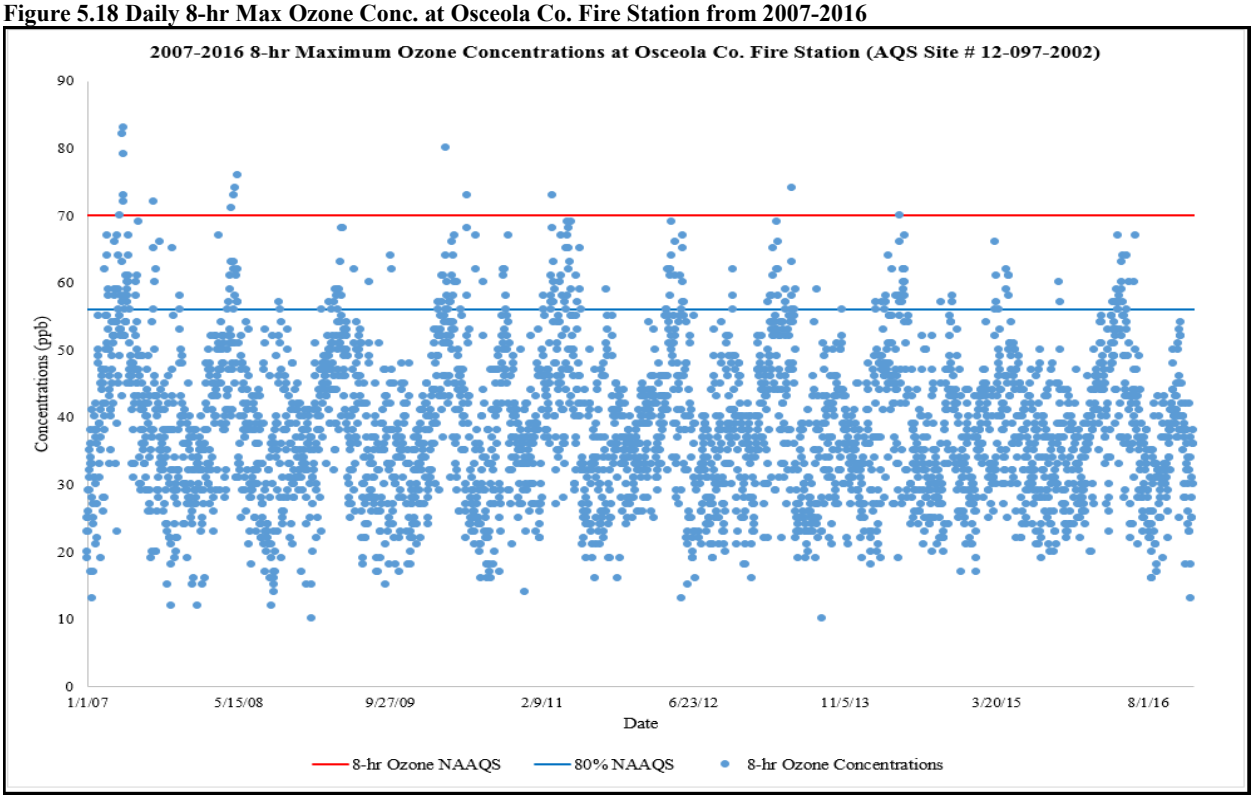


Figure 5.19 1-hr Max Monthly Averages of Ozone Conc. at Osceola Co. Fire Station and Clermont for 10 years.

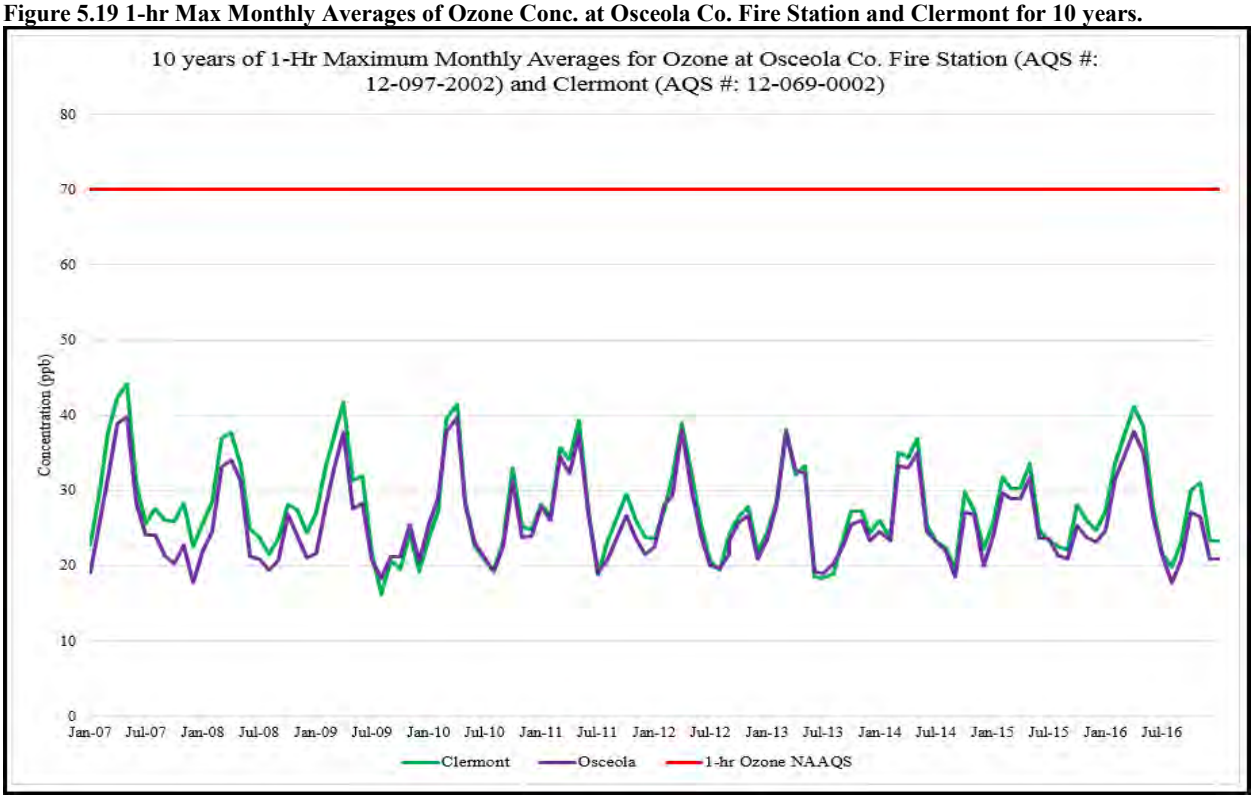
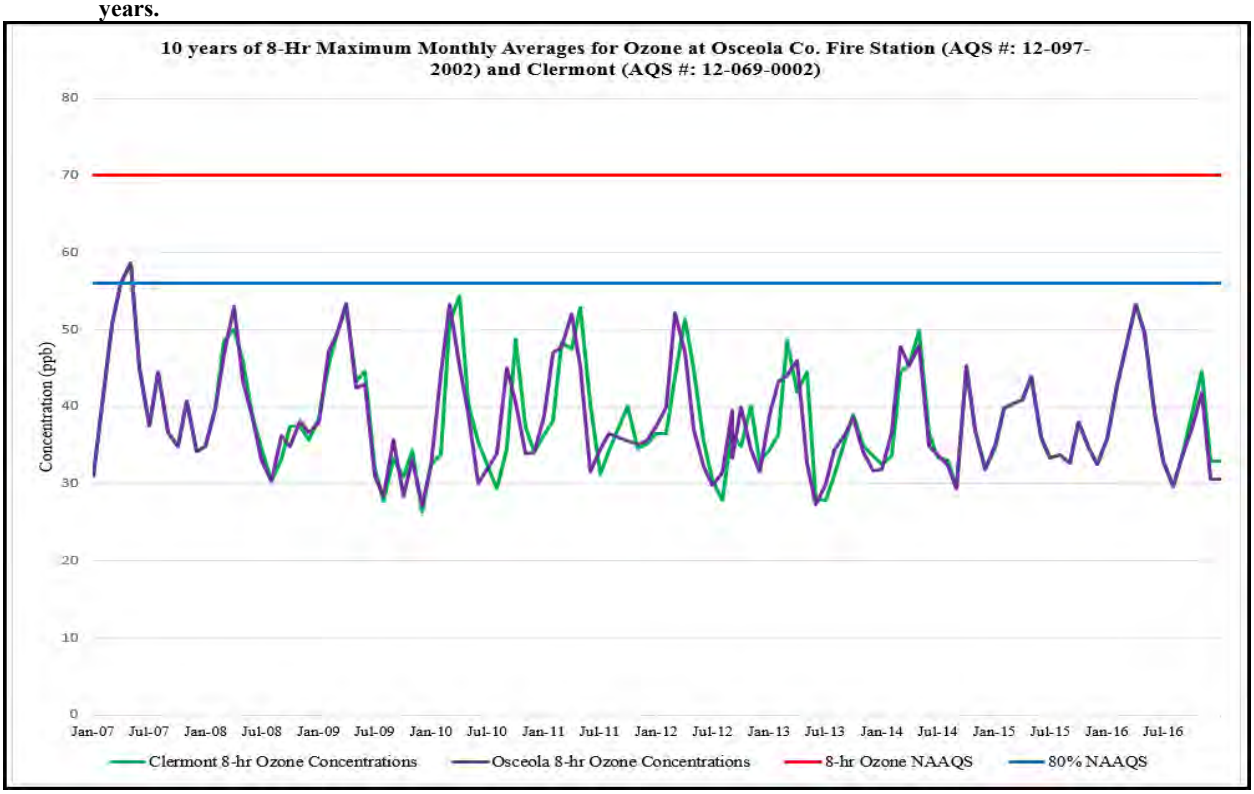


Figure 5.20 8-hr Maximum Monthly Averages of Ozone Concentrations at Osceola Co. Fire Station and Clermont for 10 years.



- *Volusia County – Port Orange*

DEP is requesting a waiver from the siting requirements for the Port Orange site (AQS Site # 12-127-2001) in Polk County. Site reviews conducted on August 20, 2014, August 18, 2015 and May 19, 2016 noted that the siting requirements in 40 CFR Part 58 Appendix E, Table E-4 could not be met. A pine tree to the northwest of the site (on a neighbor's property) is within 10 meters and above 26.5° of the probe height. The site was originally stationed to monitor the population's exposure to marine ozone and has 270° of unrestricted airflow. Therefore, this tree does not impact the direction of concern because it does not restrict airflow from the east. Requests for the removal or trimming of the tree were denied. The most recent site review information is provided in Table 5.9.

The site has been in operation for 25 years and the state would prefer to continue operation of the site to meet citizen interests and spatial coverage. Data collected pre- and post-discovery of siting issues correlate well and show negligible variability for the ozone concentrations. A comparison of the monthly averaged 1-hour and 8-hour ozone data to Daytona-Blind Services (AQS Site # 12-127-5002), located approximately 7.4 miles north of the Port Orange site, resulted in consistent, comparable concentrations and show that the data have not been impacted by the siting issues (see Figures 5.22 through 5.25 below).

Table 5.9 2016 Site Review of Port Orange – AQS Site # 12-127-2001

	Port Orange Site
AQS Site #	12-127-2001
City (CBSA)	Port Orange
Site Name	Port Orange
Statement of Purpose	Needed by Regulation
Site Review Date	5/19/2016
County	Volusia
Location Latitude	29.109151 N
Location Longitude	-80.993666 W
Address	5200 Spruce Creek Rd
Objective	Population Exposure
Pollutants Monitored	Ozone
Sampling and Analysis Method	Ozone: TEI 49i, UV Photometry
Spatial Scale	Neighborhood
Operating Schedule	Continuous
Network Type	SLAMS
Distance from Inlet to nearest:	Wall/Inlet = 2 meters Tree Dripline = 6.6 meters Road = 35 meters
Access	Unlimited
Inlet Height	4.16 meters
Comments	Distance from trees within 10 meters; does not meet siting criteria.

Figure 5.21 Port Orange site and violating tree

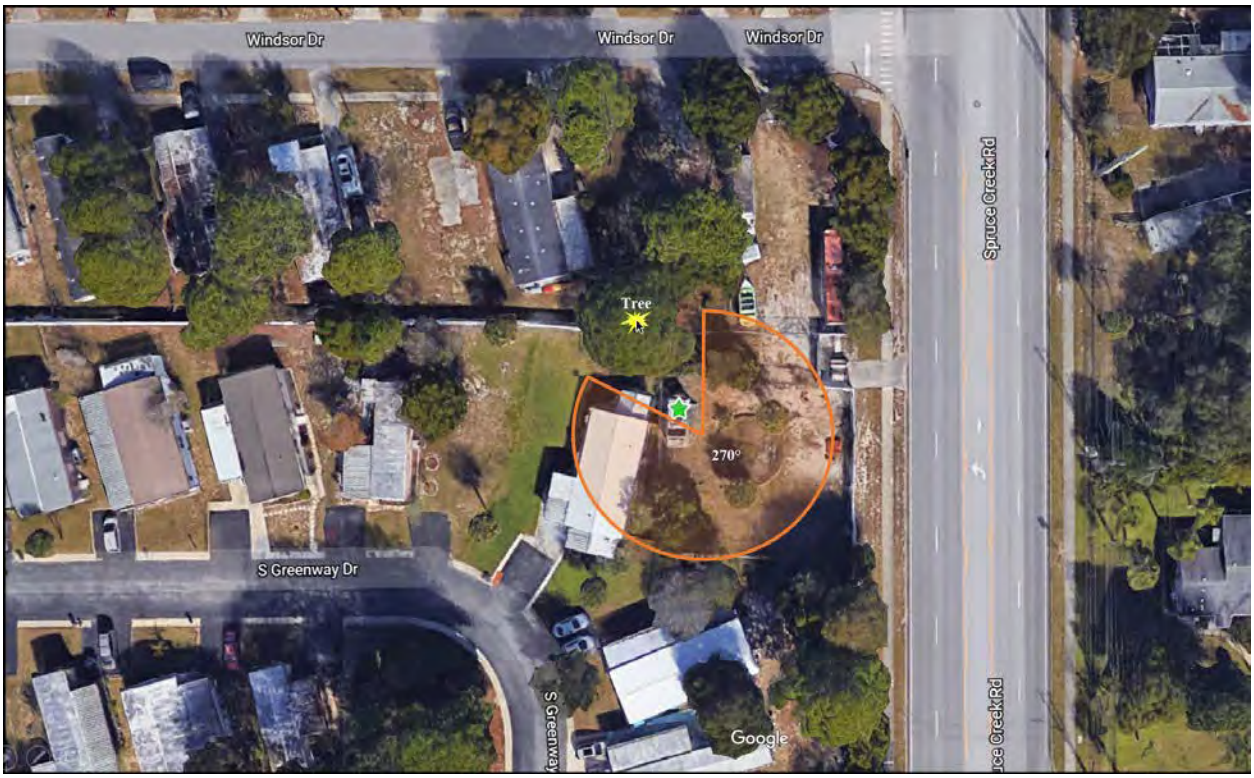


Figure 5.22 Daily 1-hr Max Ozone Conc. at Port Orange from 2007-2016

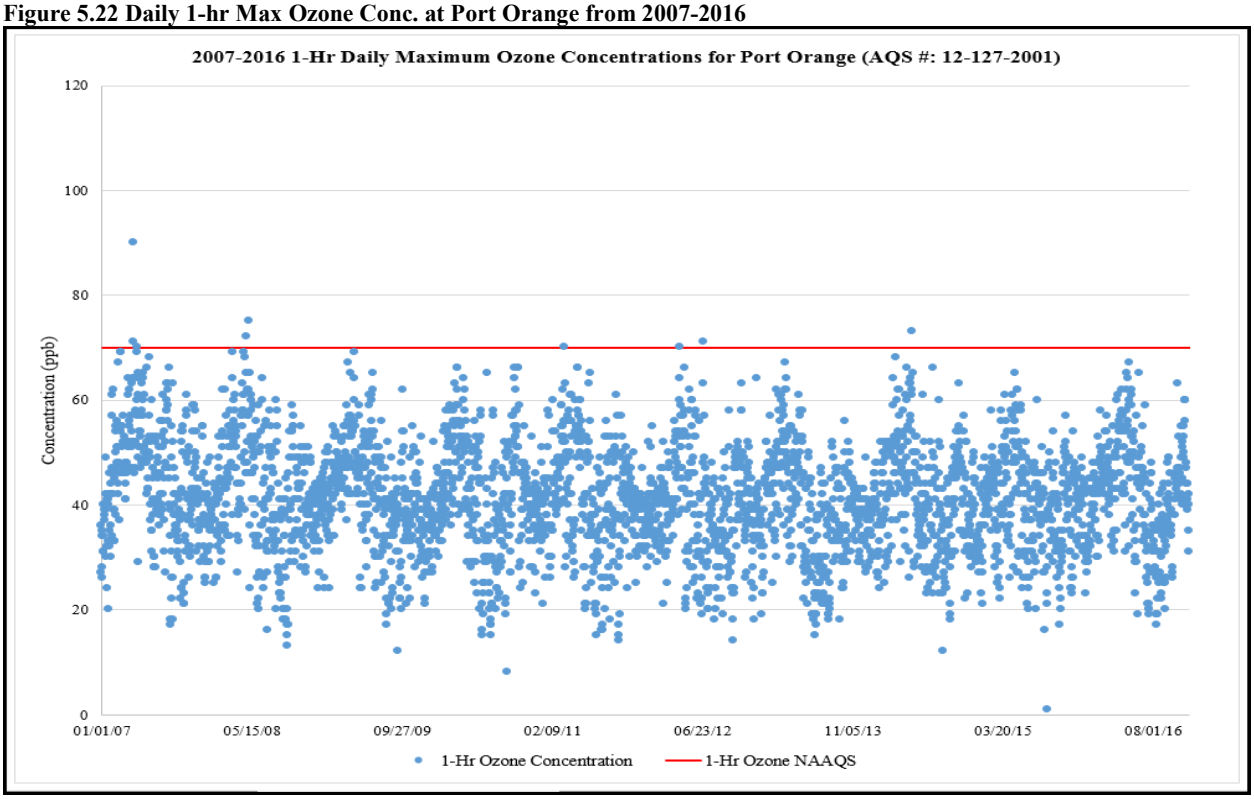


Figure 5.23 Daily 8-hr Max Ozone Conc. at Port Orange from 2007-2016

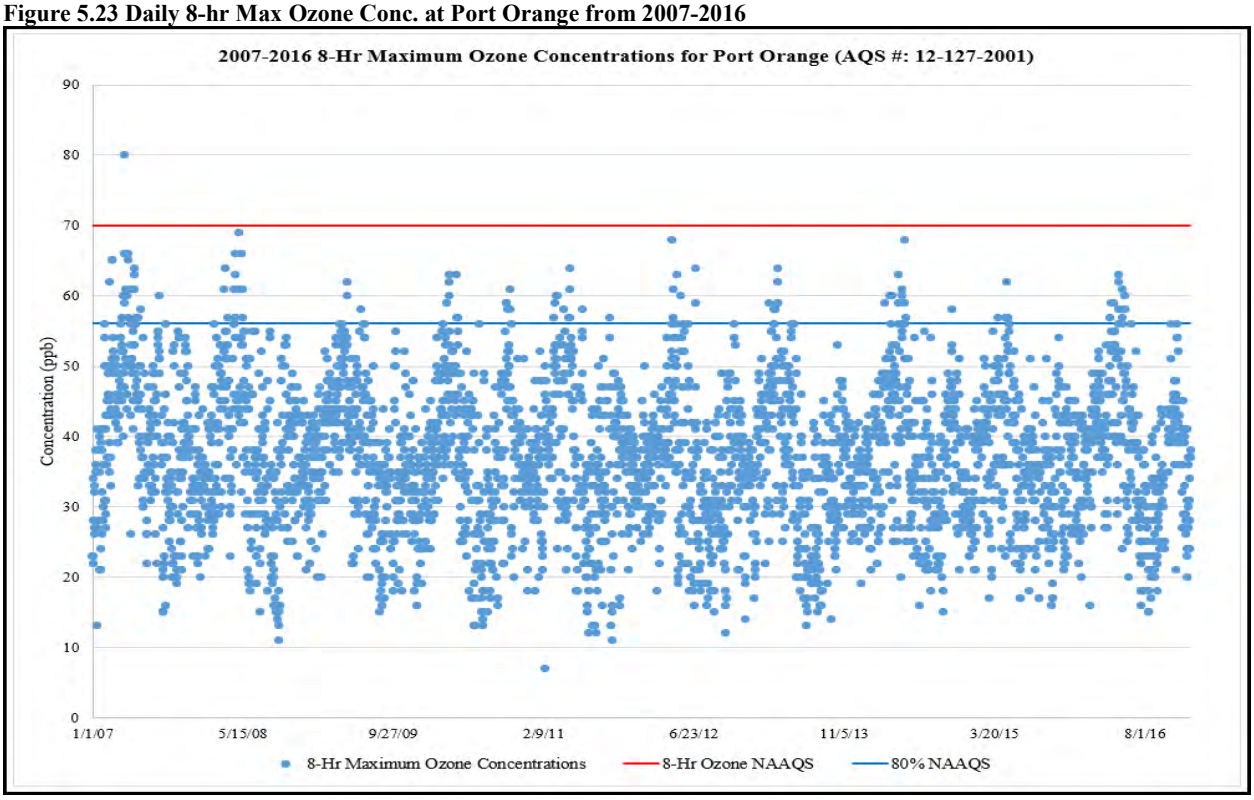


Figure 5.24 1-hr Max Monthly Averages of Ozone Conc. at Port Orange and Daytona for 10 years.

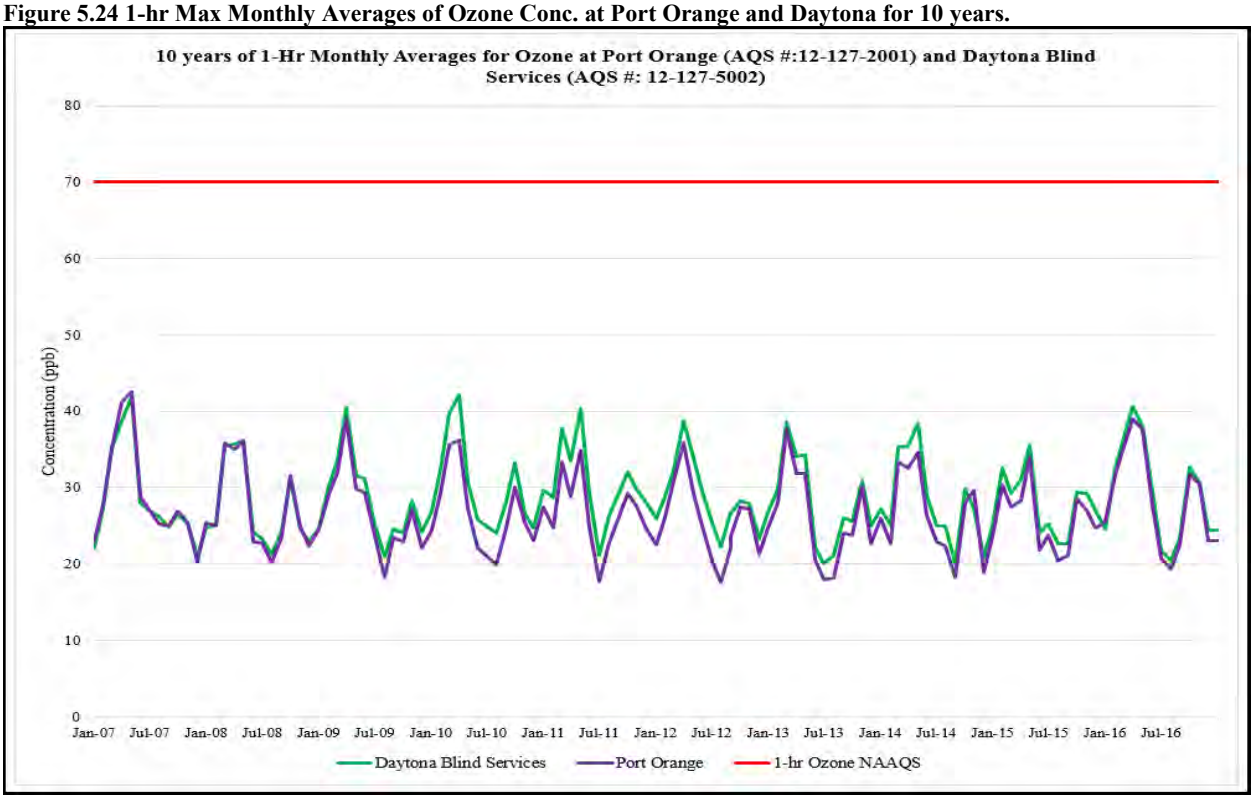
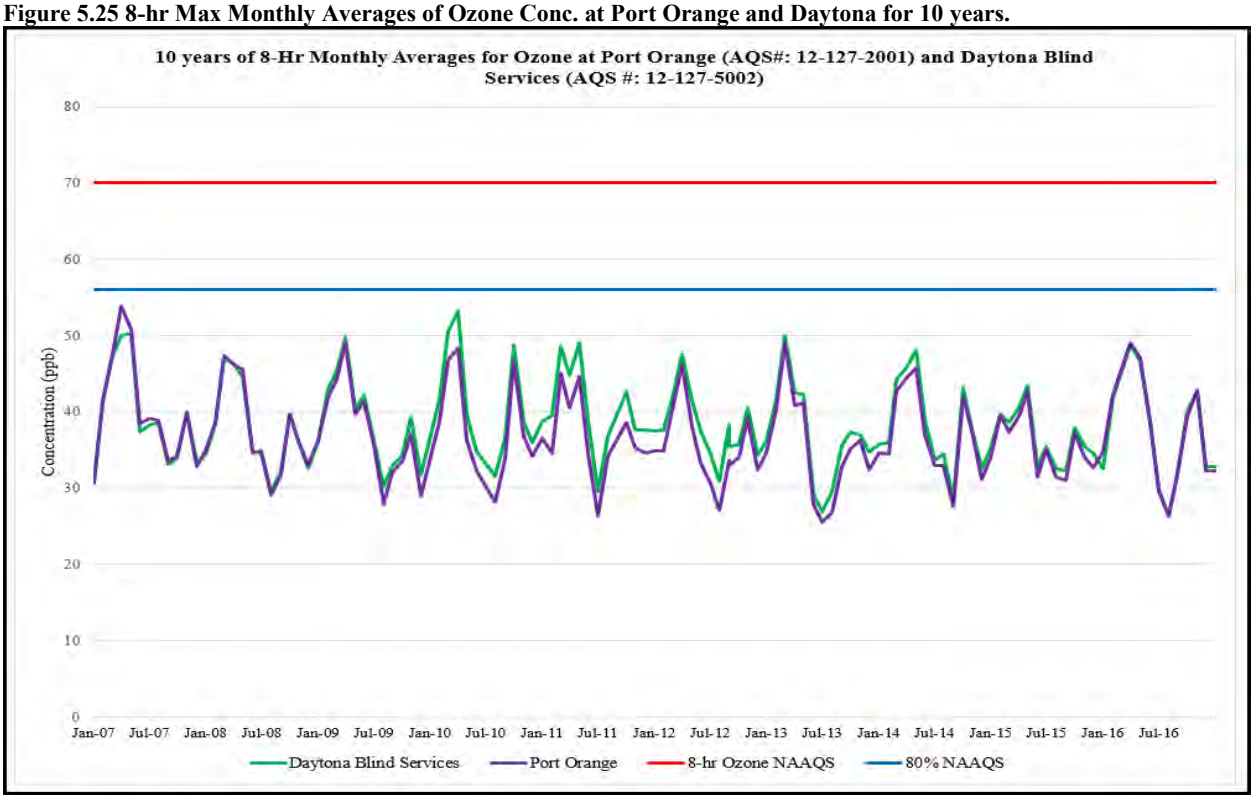


Figure 5.25 8-hr Max Monthly Averages of Ozone Conc. at Port Orange and Daytona for 10 years.



6.0 GLOSSARY OF AIR MONITORING TERMS

AADT	Annual Average Daily Traffic
AAMNAG	Ambient Air Monitoring Network Assessment Guidance
AQI	Air Quality Index – EPA's standardized 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 (metro) and micropolitan (micro) statistical 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," regulated by EPA.
FE-AADT	Fleet Equivalent Annual Average Daily Traffic – a value calculated according to the NO_2 near-road technical assistance document, which weighs heavy-duty traffic 10 times more than other vehicles.
FEM	Federal Equivalence Method – method approved for comparison to NAAQS.
FRM	Federal Reference Method – method approved for comparison to NAAQS.
IMPROVE	Interagency Monitoring of Protected Visual Environments
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." A MSA consists of a core urban area of at least 50,000 people.
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.
NATTS	National Air Toxics Trends Stations
NCore	National Core multi-pollutant monitoring stations – a collection of monitors that integrates several advanced measurement systems for particles, pollutant gases and meteorology.
NEI	National Emissions Inventory
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," regulated by EPA.
PAMS	Photochemical Assessment Monitoring Station
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.
$PM_{10-2.5}$	Particle size between 10 and 2.5.
PQAO	Primary Quality Assurance Organization
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
SU/SD	Set-up/ Shut-down

7.0 APPENDICES

APPENDIX A: ADDITIONAL NETWORK INFORMATION

Appendix A provides additional information about all sites set-up or relocations for 2016, 2017 and 2018. Additionally, this appendix provides specific additional information requested by EPA based on the 2015 annual Air Monitoring Network Plan for two near-road monitoring sites and one source-oriented SO_2 site.

APPENDIX B: ANNUAL SITE REVIEW SUMMARY

Each site is evaluated annually by DEP audit staff to determine if the siting requirements in 40 CFR Part 58 are met. Issues that are identified are resolved as quickly as practicable. Appendix B contains the Annual Site Review Summary for Florida's air monitoring network.

APPENDIX C: AMBIENT AIR MONITORING NETWORK DESCRIPTION

Florida's air monitoring network, including changes expected through June 30, 2018, is described in Appendix C. It is organized by Metropolitan Statistical Area from largest to smallest.

APPENDIX D: AMBIENT AIR MONITORING INVENTORY

EPA requires an evaluation of the agency's ambient monitors and auxiliary support equipment. The condition of inventory should be categorized as "Good," "Fair" or "Poor," and indicate equipment not in everyday use (e.g. spare or back-up). The ambient monitoring equipment inventories for Florida's monitoring agencies are provided in Appendix D.

Florida Department of Environmental Protection

2016-2017
Annual Air Monitoring
Network Plan

APPENDIX A

ADDITIONAL NETWORK INFORMATION

Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
www.dep.state.fl.us

Table of Contents

1.0 INTRODUCTION 1

2.0 NO_2 NEAR-ROAD MONITORING 2

MIAMI NEAR-ROAD SITE: PERIMETER ROAD – AQS SITE # 12-086-0035 2

Photos and Wind Rose for Perimeter Road - AQS Site #12-086-0035 3

LARGO NEAR-ROAD SITE: SAWGRASS LAKE PARK – AQS SITE # 12-103-0027 9

Photos and Wind Rose for Sawgrass Lake Park - AQS Site # 12-103-0027 10

3.0 NEW SITES 16

CRYSTAL RIVER PRESERVE SITE - AQS SITE # 12-017-0006 16

Photos and Wind Rose for the Crystal River Preserve SO_2 Site, AQS Site # 12-017-0006 16

APOLLO BEACH SITE - AQS SITE # 12-057-0112 21

Photos and Wind Rose for the Apollo Beach SO_2 and $PM_{2.5}$ Site, AQS Site # 12-057-0112 21

4.0 SITE RELOCATIONS 26

LANTANA PRESERVE SITE - AQS SITE # 12-099-0021 26

Data Comparison for Ozone Concentrations: 26

Photos and Wind Rose for the Lantana Preserve Site, AQS Site # 12-099-0021 30

COCONUT CREEK PARK - AQS SITE # 12-011-5005 35

Photos and Wind Rose for the Coconut Creek Park Site - AQS #12-011-5005 35

LAMSTEIN LANE SITE - AQS SITE #12-099-0022 42

Photos and Wind Rose for the Lamstein Lane Site - AQS #12-099-0022 42

BONIFAY - AQS SITE #12-059-0004 49

Photos and Wind Rose for the Holmes County: Bonifay Site - AQS #12-059-0004 49

PAYNES PRAIRIE FARM - AQS SITE #12-001-3012 56

Photos and Wind Rose for the Alachua County: Paynes Prairie Farm Site - AQS #12-001-3012 56

MUNRO STREET - AQS SITE # 12-057-0113 61

Data Comparison for NO_2 Concentrations: 61

Photos and Wind Rose for the Hillsborough County: Munro Street Site - AQS Site #12-057-0113 63

List of Figures

Figure 2.1 North from Perimeter Road Site 3
Figure 2.2 Northeast from Perimeter Road Site 3
Figure 2.3 East from Perimeter Road Site 4
Figure 2.4 Southeast from Perimeter Road Site 4
Figure 2.5 South from Perimeter Road Site 5
Figure 2.6 Southwest from Perimeter Road Site 5
Figure 2.7 West from Perimeter Road Site 6
Figure 2.8 Northwest from Perimeter Road Site 6
Figure 2.9 Aerial for Miami Near-road Site 7
Figure 2.10 Wind Rose for the Miami Near-road Site (AQS Site # 12-086-0035), 21.5 km south-southwest to Perdue Site (AQS Site # 12-086-0029). 8
Figure 2.11 North from Sawgrass Lake Park Site 10
Figure 2.12 Northeast from Sawgrass Lake Park Site 10
Figure 2.13 East from Sawgrass Lake Park Site 11
Figure 2.14 Southeast from Sawgrass Lake Park Site 11
Figure 2.15 South from Sawgrass Lake Park Site 12
Figure 2.16 Southwest from Sawgrass Lake Park Site 12
Figure 2.17 West from Sawgrass Lake Park Site 13
Figure 2.18 Looking Northwest from Sawgrass Lake Park Site 13
Figure 2.19 The Sawgrass Lake Park Site 14
Figure 2.20 Aerial for Sawgrass Lake Park Site 14
Figure 2.21 Wind Rose for the Largo Near-road Site (AQS Site # 12-103-0027) from Skyview Site (AQS Site # 12-103-0026) due west 5.7 km 15
Figure 3.1 North from Crystal River Preserve Site 16
Figure 3.2 East from Crystal River Preserve Site 17
Figure 3.3 South from Crystal River Preserve Site 17
Figure 3.4 West from Crystal River Preserve Site 18
Figure 3.5 Crystal River Preserve Site 18
Figure 3.6 Aerial Image of Crystal River Preserve Site 19
Figure 3.7 Wind Rose for the Homosassa Springs SO_2 Site (AQS Site # 12-017-0006) 20
Figure 3.8 North from Apollo Beach Site 21
Figure 3.9 East from Apollo Beach Site 22
Figure 3.10 South from Apollo Beach Site 22
Figure 3.11 West from Apollo Beach Site 23
Figure 3.12 Apollo Beach Site 23
Figure 3.13 Aerial View of Apollo Beach Site 24
Figure 3.14 Apollo Beach Site and Source: TECO Big Bend 24
Figure 3.15 Wind Rose from E.G. Simmons Park Site (AQS Site #: 12-057-0081). 6 miles SSW of the Apollo Beach Site 25
Figure 4.1 Daily 1-hr Max Ozone Conc. for Lantana Preserve and A.G. Holley 26
Figure 4.2 Monthly Averages of 1-Hr Max Ozone Conc. for Lantana Preserve and A.G. Holley 27
Figure 4.3 Daily 8-hr Max Ozone Conc. for Lantana Preserve and A.G. Holley 28
Figure 4.4 Monthly Averages of 8-Hr Max Ozone Conc. for Lantana Preserve and A.G. Holley 29
Figure 4.5 Lantana Preserve Site 30
Figure 4.6 North from Lantana Preserve Site 31
Figure 4.7 South from Lantana Preserve Site 31
Figure 4.8 East from Lantana Preserve Site 32
Figure 4.9 West from Lantana Preserve Site 32

Figure 4.10 A.G. Holley and Lantana Preserve Sites 33
Figure 4.11 Wind Rose from Lantana Preserve Site (AQS Site 12-099-0021) 34
Figure 4.12 North from Coconut Creek Park Site 35
Figure 4.13 Northeast from Coconut Creek Park Site 36
Figure 4.14 East from Coconut Creek Park Site 36
Figure 4.15 Southeast from Coconut Creek Park Site 37
Figure 4.16 South from Coconut Creek Park Site 37
Figure 4.17 Southwest from Coconut Creek Park Site 38
Figure 4.18 West from Coconut Creek Park Site 38
Figure 4.19 Northwest from Coconut Creek Park Site 39
Figure 4.20 Coconut Creek Site 39
Figure 4.21 Aerial Image of Coconut Creek Site (with Former Site Represented by Latitude and Longitude) 40
Figure 4.22 Waste to Energy Plant at 2600 Wiles Rd and Coconut Creek Site 40
Figure 4.23 Wind Rose for Sawgrass Springs Middle School (AQS Site ID #: 12-011-0031), 11 km west of Coconut Creek Site 41
Figure 4.24 North from Lamstein Lane Site 42
Figure 4.25 Northeast from Lamstein Lane Site 43
Figure 4.26 East from Lamstein Lane Site 43
Figure 4.27 Southeast from Lamstein Lane Site 44
Figure 4.28 South from Lamstein Lane Site 44
Figure 4.29 Southwest from Lamstein Lane Site 45
Figure 4.30 West from Lamstein Lane Site 45
Figure 4.31 Northwest from Lamstein Lane Site 46
Figure 4.32 Aerial Image of Lamstein Lane Site (no obstructions) 46
Figure 4.33 Royal Palm Beach Site and Lamstein Lane Relocation (5 km apart) 47
Figure 4.34 Wind Rose from previous Royal Palm Beach Site (AQS # 12-099-0009) 48
Figure 4.35 North from Bonifay Site 49
Figure 4.36 Northeast from Bonifay Site 50
Figure 4.37 East from Bonifay Site 50
Figure 4.38 Southeast from Bonifay Site 51
Figure 4.39 South from Bonifay Site 51
Figure 4.40 Southwest from Bonifay Site 52
Figure 4.41 West from Bonifay Site 52
Figure 4.42 Northwest from Bonifay Site 53
Figure 4.43 Bonifay Site 53
Figure 4.44 Aerial view of the Bonifay Site 54
Figure 4.45 Wind Rose from Original Bonifay Location (AQS Site 12-059-0004) 55
Figure 4.46 Paynes Prairie Farm Site 56
Figure 4.47 North from Paynes Prairie Farm Site 57
Figure 4.48 South from Paynes Prairie Farm Site 57
Figure 4.49 East from Paynes Prairie Farm Site 58
Figure 4.50 West from Paynes Prairie Farm Site 58
Figure 4.51 Aerial View of Paynes Prairie Farm Site 59
Figure 4.52 Wind Rose from Paynes Prairie Farm Site (AQS Site 12-001-3012) 60
Figure 4.53 Daily 1-hr Max NO_2 Conc. Comparison for Munro Street and Julian B. Lane Park 61
Figure 4.54 Monthly Averages of 1-Hr NO_2 for Munro Street and Julian B. Lane Park 62
Figure 4.55 North from Munro Site 63
Figure 4.56 Northeast from Munro Site 64
Figure 4.57 East from Munro Site 64

Figure 4.58 Southeast from Munro Site 65
Figure 4.59 South from Munro Site 65
Figure 4.60 Southwest from Munro Site 66
Figure 4.61 West from Munro Site 67
Figure 4.62 Northwest from Munro Site 67
Figure 4.63 Aerial of Munro Site 68
Figure 4.64 Wind Rose from Munro Street Site (AQS Site 12-057-0113) 69

List of Tables

Table 2.1 Miami-Dade County Road Segment Rankings 2
Table 2.2 Pinellas County Road Segment Rankings 9

1.0 Introduction

This appendix provides additional information to facilitate a full evaluation of several changes to Florida's air monitoring network, including site closures, additions, and relocations. The additional information will be subdivided into several categories: NO_2 Near-road Monitoring, New Sites, and Site Relocations.

2.0 NO_2 Near-road Monitoring

Miami Near-road Site: Perimeter Road – AQS Site # 12-086-0035

The Perimeter Road NO_2 Near-road site became operational in December 2016. The road segment rankings for Miami-Dade County are in Table 2.1. The segment ultimately selected was ranked 17th due to the similarities of the higher ranked segments to the Broward County near-road NO_2 site, which is on I-95. The selected location is near the airport and offers a different fleet mix, congestion pattern and most importantly, a different highway.

Table 2.1 Miami-Dade County Road Segment Rankings

Road Segment	AADT	AADT Rank	Heavy Duty AADT	Heavy Duty Rank	FE-AADT	FE-AADT Rank
ON RAMP 87270191 to Bridge No-870435	266,000	1	18,112	1	447,116	1
Bridge No-870435 to Bridge No-870437	265,000	2	18,112	2	446,116	2
Bridge No-870344 to I-95 SB FLYOVER	261,000	3	18,112	3	442,116	3
OFF RAMP 87270184 to ON RAMP 87270191	258,000	4	18,112	4	439,116	4
Bridge No-870437 to Bridge No-870344	245,000	5	18,112	5	426,116	5
OFF RAMP 87270184	242,000	6	18,112	6	423,116	6
DADE/BROWARD CO LINE	234,000	8	18,112	7	415,116	7
I-95 SB FLYOVER to Bridge No-870352	209,000	11	18,112	8	390,116	8
N/A	207,000	12	18,112	9	388,116	9
Bridge No-870455	194,500	15	18,112	10	375,616	10
Bridge No-870352	175,000	16	18,112	11	356,116	11
DADE CO. LN. to Bridge No-860529	227,000	9	12,604	13	353,036	12
Bridge No-870356 to Bridge No-870455	162,000	17	18,112	12	343,116	13
NW 58 ST to Bridge No-870455	236,000	7	2,986	16	265,862	14
Bridge No-870778	224,000	10	2,986	17	253,862	15
Bridge No-870060	199,000	13	5,153	14	250,534	16
Bridge No-870135 to Bridge No-870138	197,000	14	5,153	15	248,534	17

Photos and Wind Rose for Perimeter Road - AQS Site #12-086-0035

Figure 2.1 North from Perimeter Road Site

Figure 2.2 Northeast from Perimeter Road Site

Figure 2.3 East from Perimeter Road Site

Figure 2.4 Southeast from Perimeter Road Site

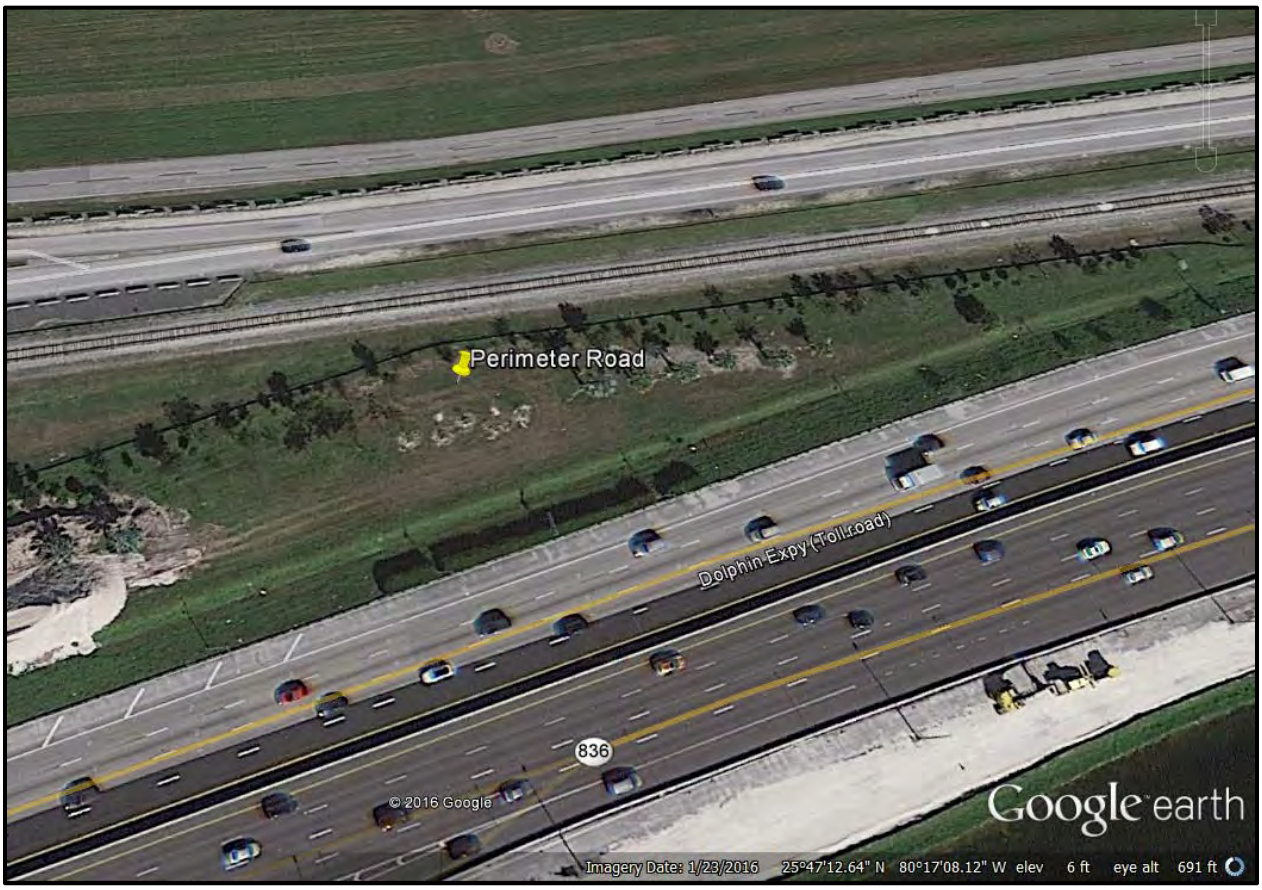
Figure 2.5 South from Perimeter Road Site

Figure 2.6 Southwest from Perimeter Road Site

Figure 2.7 West from Perimeter Road Site

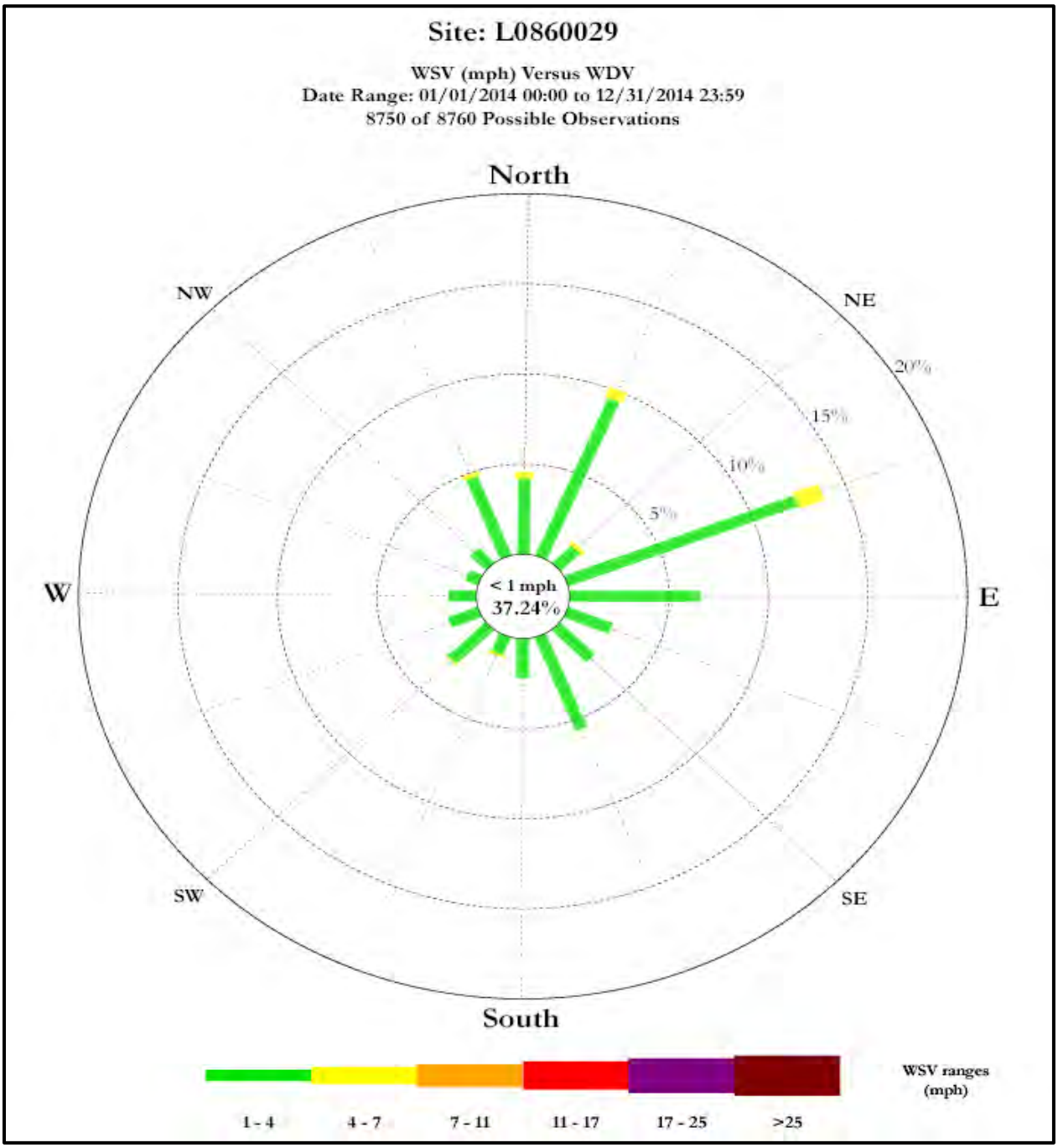
Figure 2.8 Northwest from Perimeter Road Site

Figure 2.9 Aerial for Miami Near-road Site



Note: This site has no obstructions

Figure 2.10 Wind Rose for the Miami Near-road Site (AQS Site # 12-086-0035), 21.5 km south-southwest to Perdue Site (AQS Site # 12-086-0029).



Largo Near-road Site: Sawgrass Lake Park – AQS Site # 12-103-0027

The Sawgrass Lake Park NO_2 Near-road site became operational in May 2016. The road segment rankings for Pinellas County are in Table 2.2. The segment ultimately selected was the highest ranked segment for the county. While both the Pinellas and Hillsborough Counties' sites are on I-275, the selected location in Pinellas, unlike the Hillsborough County site, is not on an elevated portion of highway and will provide a different monitoring condition.

Table 2.2 Pinellas County Road Segment Rankings

Road Segment	AADT	AADT Rank	Heavy Duty AADT	Heavy Duty Rank	FE-AADT	FE-AADT Rank
I-275 S of Gandy	141,000	5	9,165	1	223,485	1
I-275 22 Ave N/5th Ave S	148,000	2	5,180	7	194,620	4
I-275 at 4th St N	142,500	4	8,265	2	216,885	2
I-275 Between 54th Ave N/38th Ave N	152,000	1	6,536	4	210,824	3
I-275 Between 38 Ave N/22nd Ave N	147,000	3	4,410	10	486,690	5
I-275 Ulmerton	114,500	8	7,901	3	185,609	6
I-275 at Central Ave	119,000	7	5,474	5	168,266	7
I-275 N of Gandy	119,500	6	4,660	7	161,449	8
I-275 N of Roosevelt	99,500	9	5,473	6	148,757	9
I-275 at 9th Ave S	96,000	10	4,608	9	137,472	10
I-275 at 15th Ave S	95,400	11	4,347	11	133,623	11

Photos and Wind Rose for Sawgrass Lake Park - AQS Site # 12-103-0027

Figure 2.11 North from Sawgrass Lake Park Site

Figure 2.12 Northeast from Sawgrass Lake Park Site

Figure 2.13 East from Sawgrass Lake Park Site

Figure 2.14 Southeast from Sawgrass Lake Park Site

Figure 2.15 South from Sawgrass Lake Park Site

Figure 2.16 Southwest from Sawgrass Lake Park Site

Figure 2.17 West from Sawgrass Lake Park Site

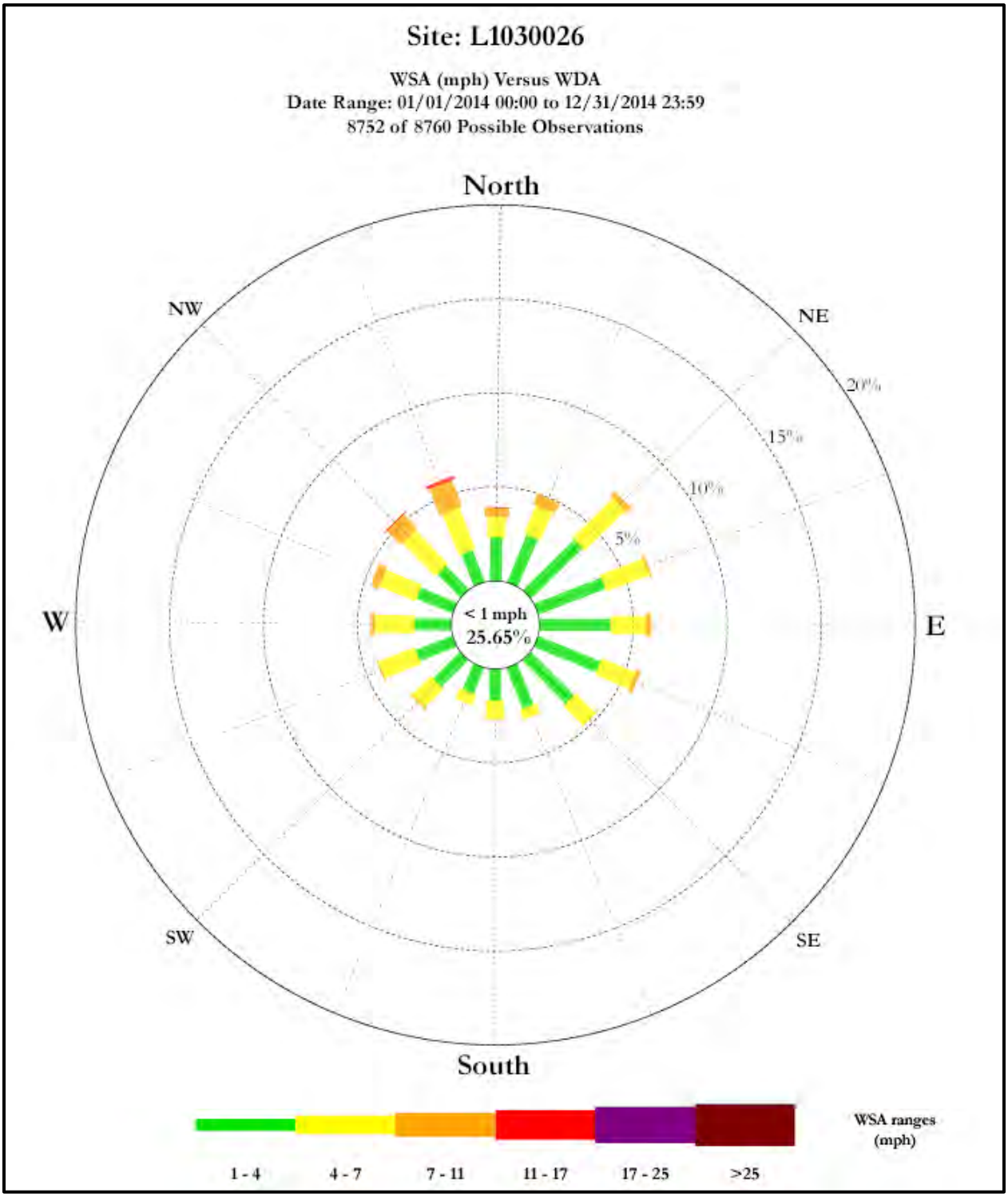
Figure 2.18 Looking Northwest from Sawgrass Lake Park Site

Figure 2.19 The Sawgrass Lake Park Site

Figure 2.20 Aerial for Sawgrass Lake Park Site

Note: This site has no obstructions.

Figure 2.21 Wind Rose for the Largo Near-road Site (AQS Site # 12-103-0027) from Skyview Site (AQS Site # 12-103-0026) due west 5.7 km



3.0 New Sites

Crystal River Preserve Site - AQS Site # 12-017-0006

The Crystal River Preserve site in Citrus County is a new site that was established in response to changes in the SO_2 National Ambient Air Quality Standards (NAAQS). The site became operational in December 2013.

Photos and Wind Rose for the Crystal River Preserve SO_2 Site, AQS Site # 12-017-0006

Figure 3.1 North from Crystal River Preserve Site

Figure 3.2 East from Crystal River Preserve Site

Figure 3.3 South from Crystal River Preserve Site

Figure 3.4 West from Crystal River Preserve Site

Figure 3.5 Crystal River Preserve Site

Figure 3.6 Aerial Image of Crystal River Preserve Site

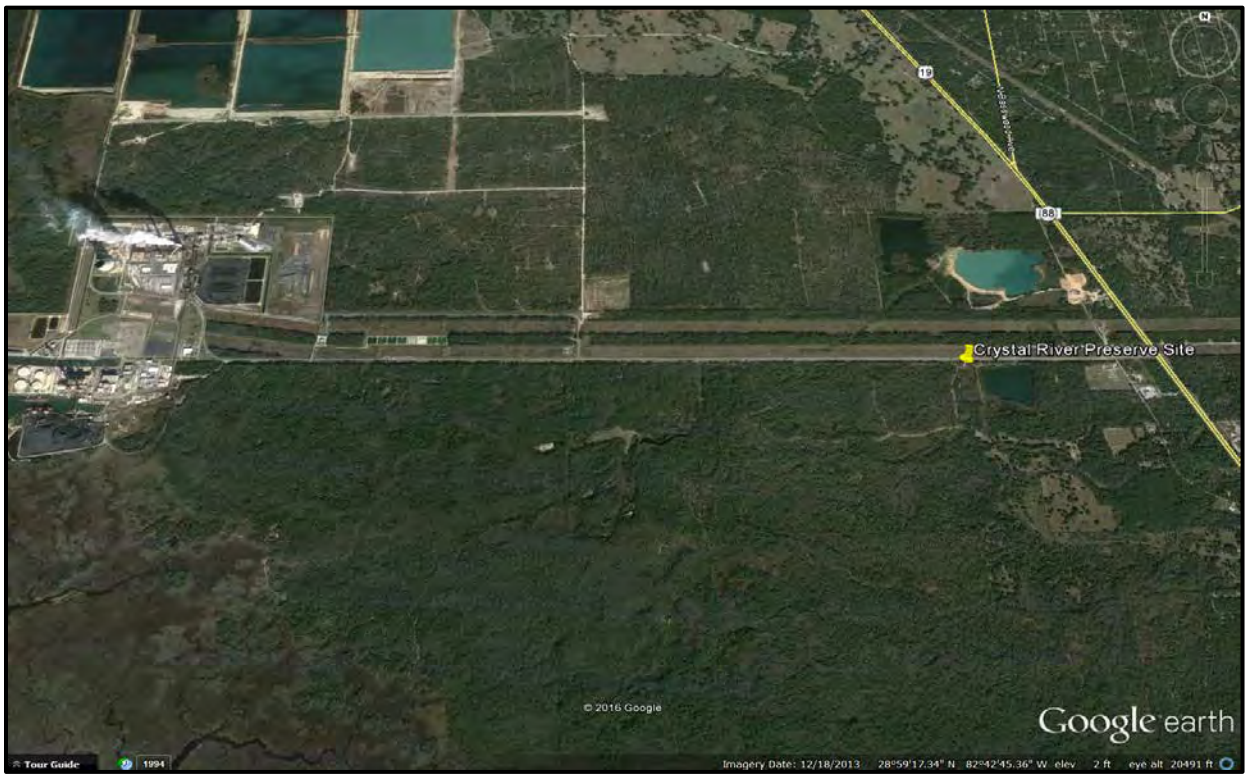
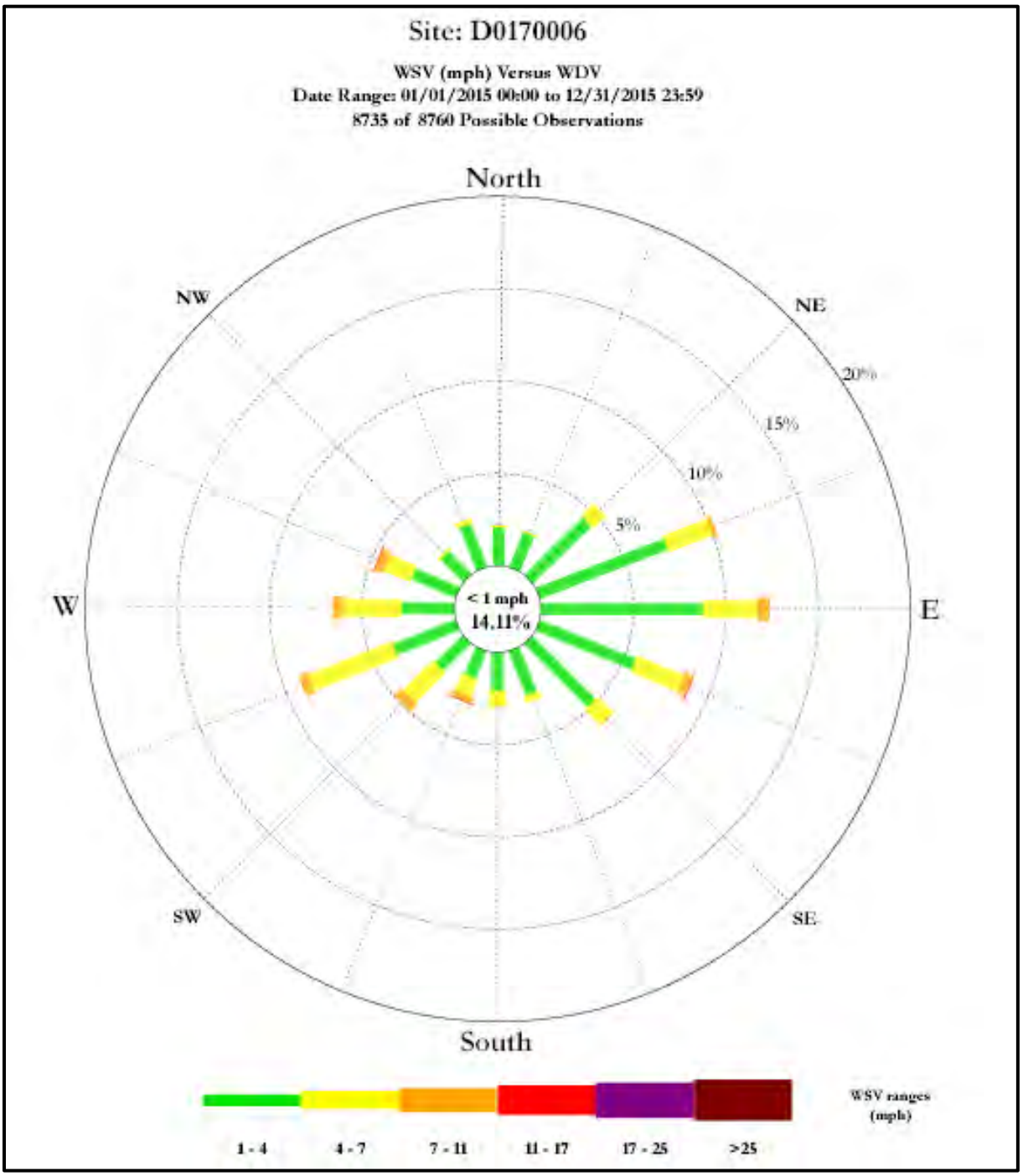


Figure 3.7 Wind Rose for the Homosassa Springs SO_2 Site (AQS Site # 12-017-0006)



Apollo Beach Site - AQS Site # 12-057-0112

The Apollo Beach site in Hillsborough County is a new site that was established in response to changes in the SO_2 National Ambient Air Quality Standards (NAAQS). The site became operational in January 2016.

Photos and Wind Rose for the Apollo Beach SO_2 and $PM_{2.5}$ Site, AQS Site # 12-057-0112

Figure 3.8 North from Apollo Beach Site

Figure 3.9 East from Apollo Beach Site

Figure 3.10 South from Apollo Beach Site

Figure 3.11 West from Apollo Beach Site

Figure 3.12 Apollo Beach Site

Figure 3.13 Aerial View of Apollo Beach Site

Note: There are trees 7 meters south of the site, which are under contract to be removed. After removal, there will be no obstructions at this site.

Figure 3.14 Apollo Beach Site and Source: TECO Big Bend

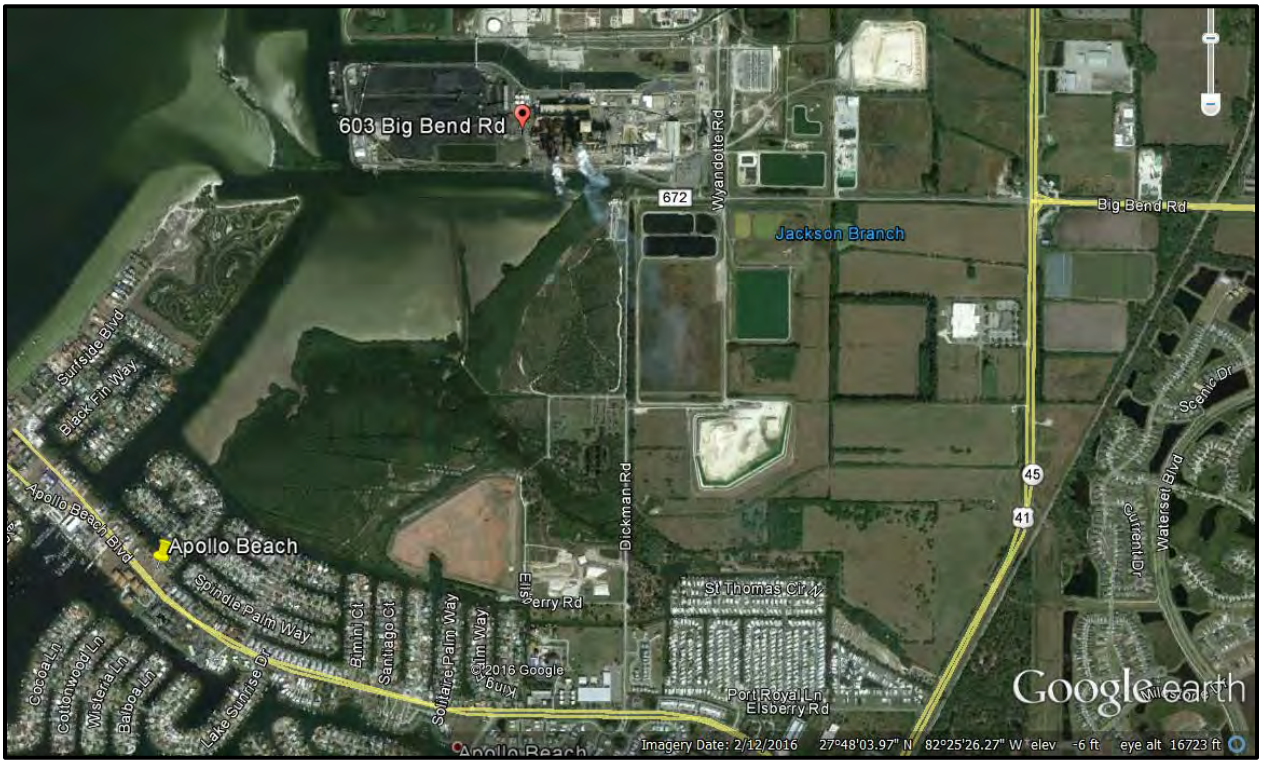
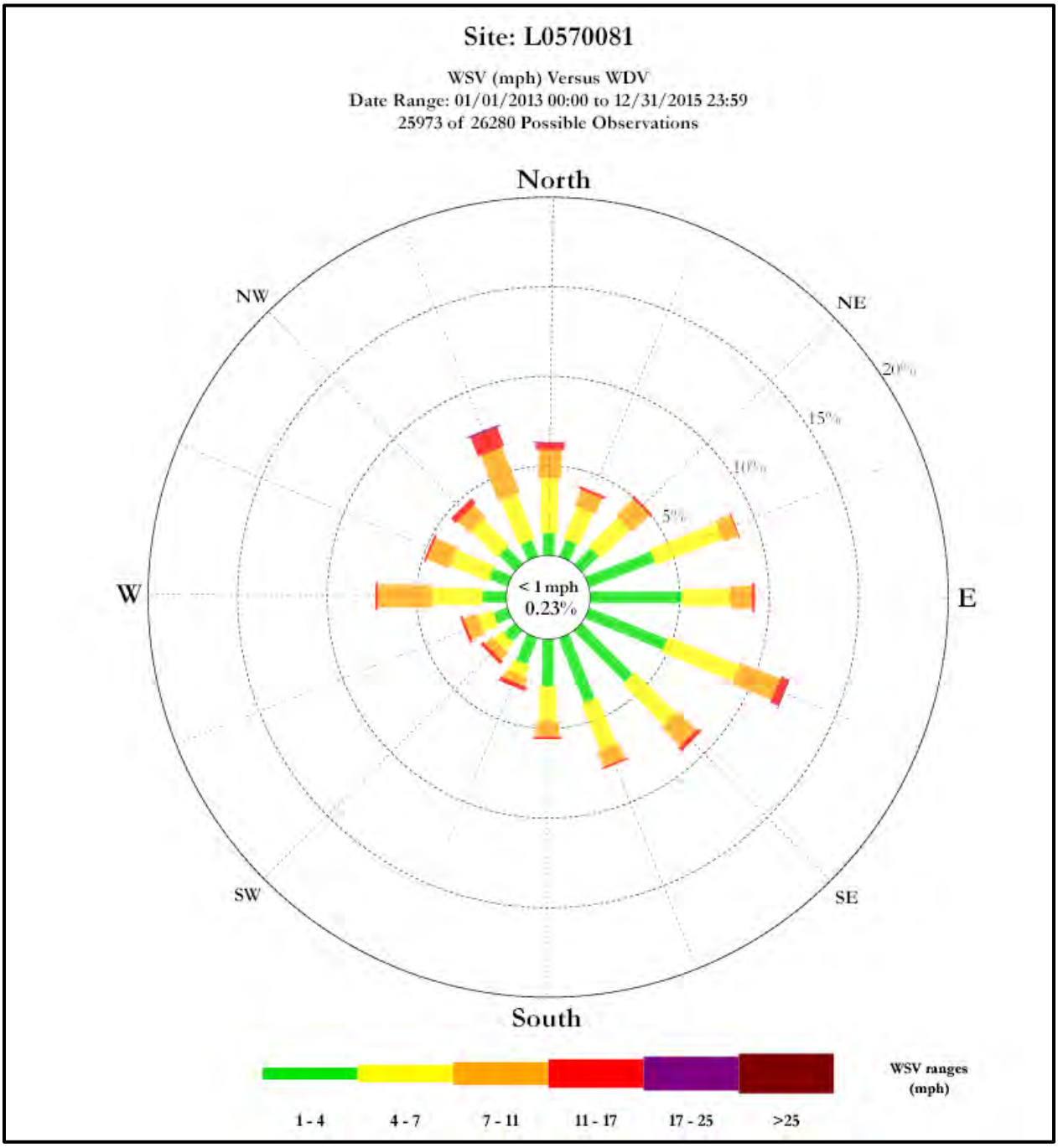


Figure 3.15 Wind Rose from E.G. Simmons Park Site (AQS Site #: 12-057-0081). 6 miles SSW of the Apollo Beach Site



4.0 Site Relocations

Lantana Preserve Site - AQS Site # 12-099-0021

The A.G. Holley site (AQS Site #12-099-0020) was relocated to the Lantana Preserve site, AQS Site # 12-099-0021. The spatial scale for both sites is Neighborhood, which at a minimum represents half of a kilometer. The site became operational in February 2015. The PM_{10} monitor will be relocated to the Delray Beach site (AQS Site # 12-099-2005), since the site does not meet siting criteria for particulate monitoring. DEP requests that the ozone datasets for these sites be combined for data completeness and attainment designations based on the comparability of the concentration data collected at both sites.

Data Comparison for Ozone Concentrations:

Figure 4.1 Daily 1-hr Max Ozone Conc. for Lantana Preserve and A.G. Holley

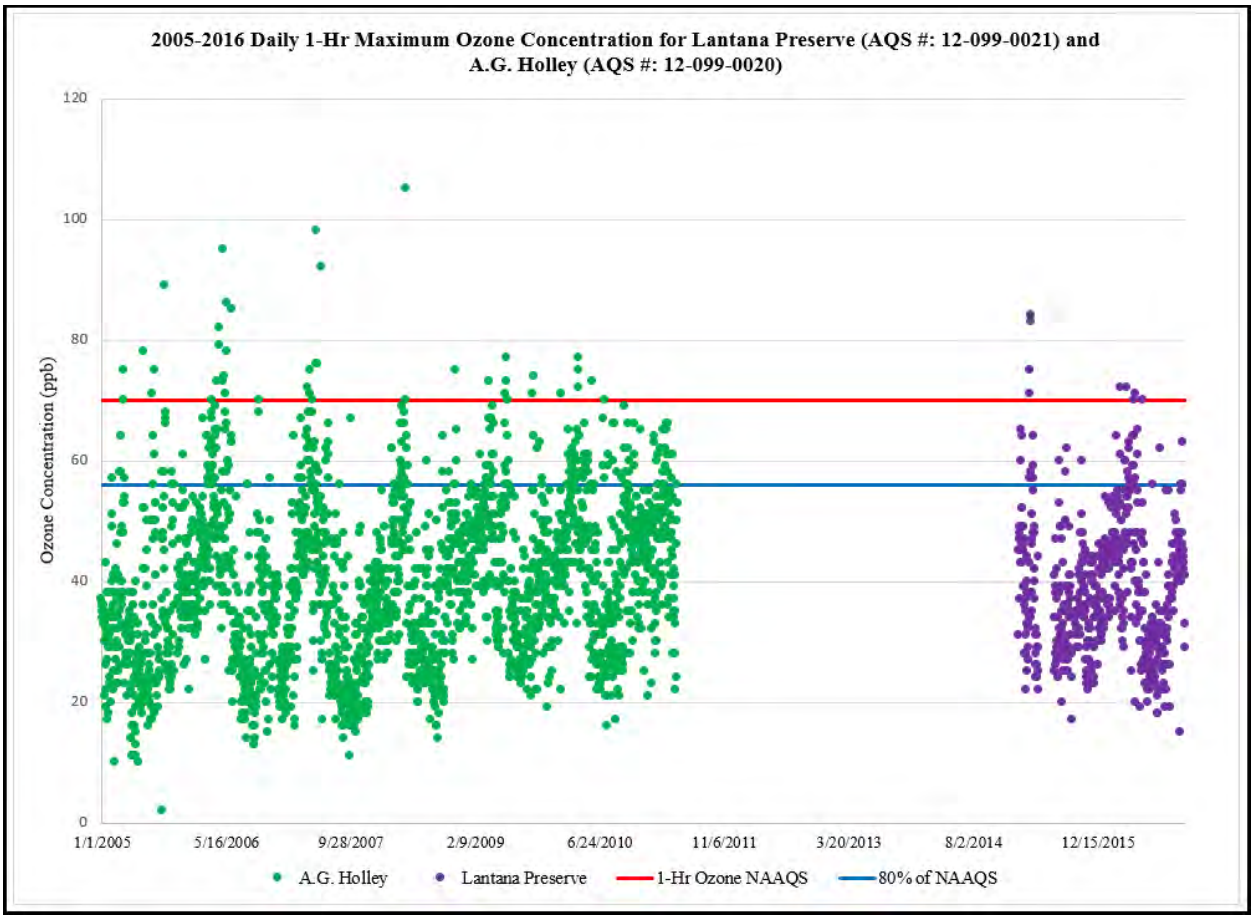


Figure 4.2 Monthly Averages of 1-Hr Max Ozone Conc. for Lantana Preserve and A.G. Holley

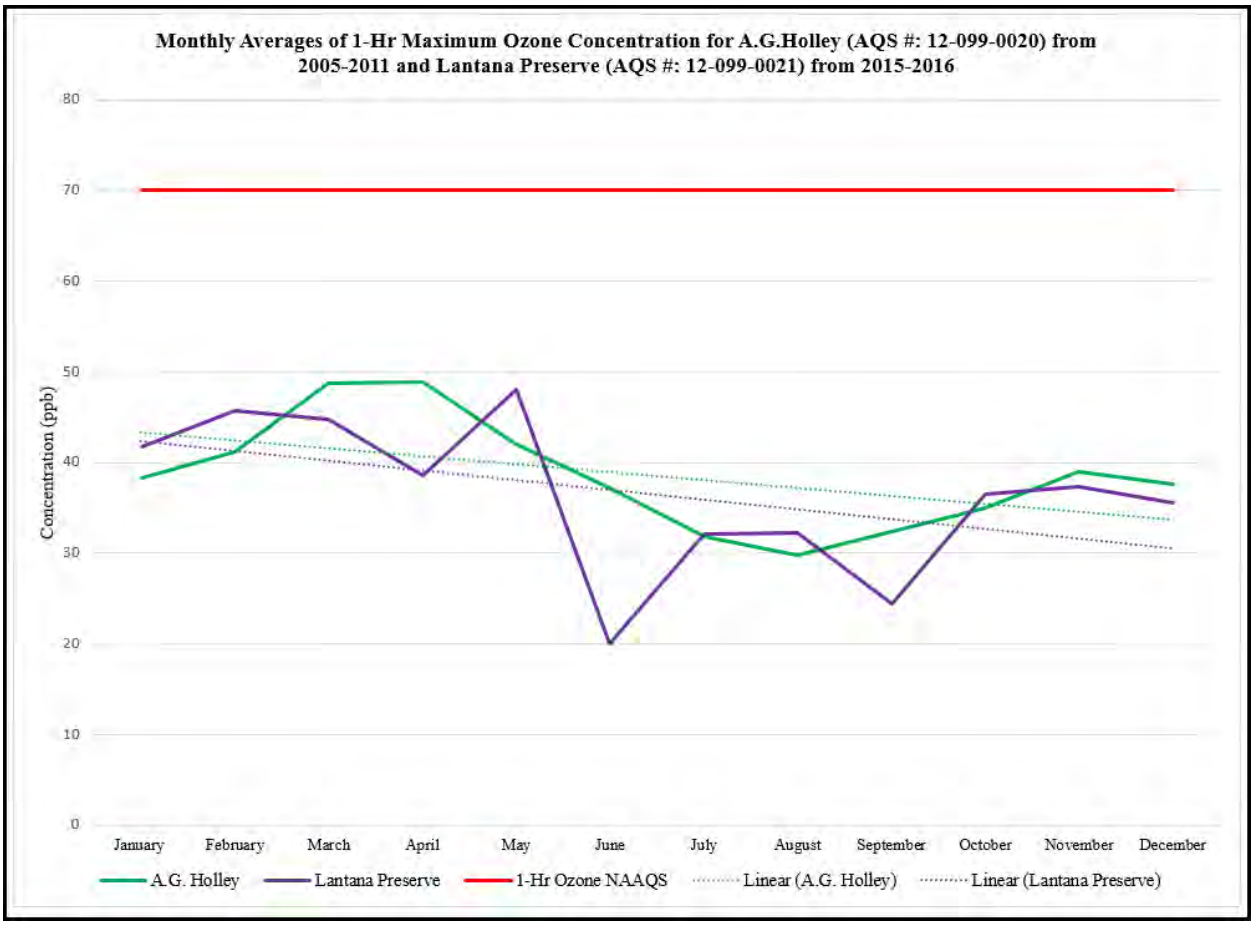


Figure 4.3 Daily 8-hr Max Ozone Conc. for Lantana Preserve and A.G. Holley

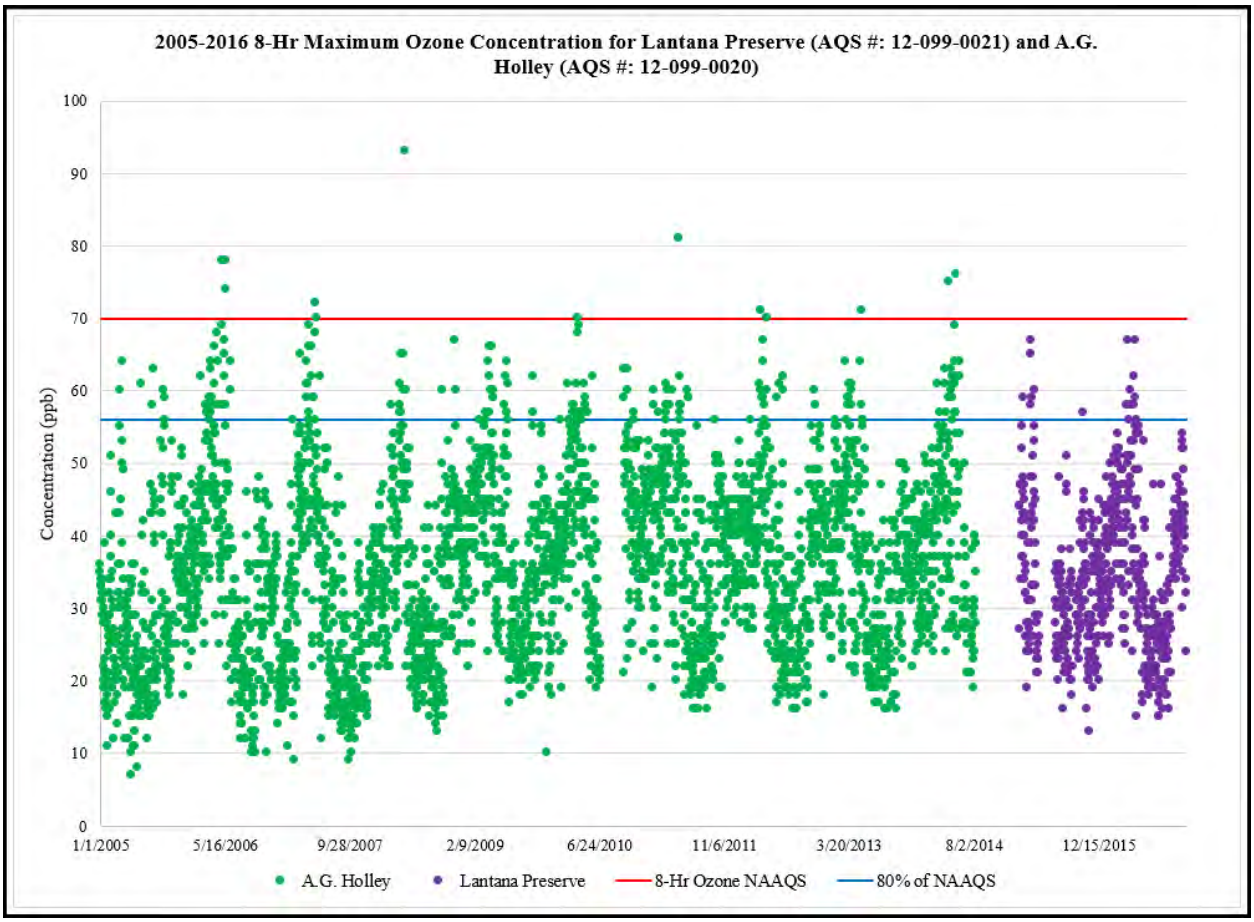
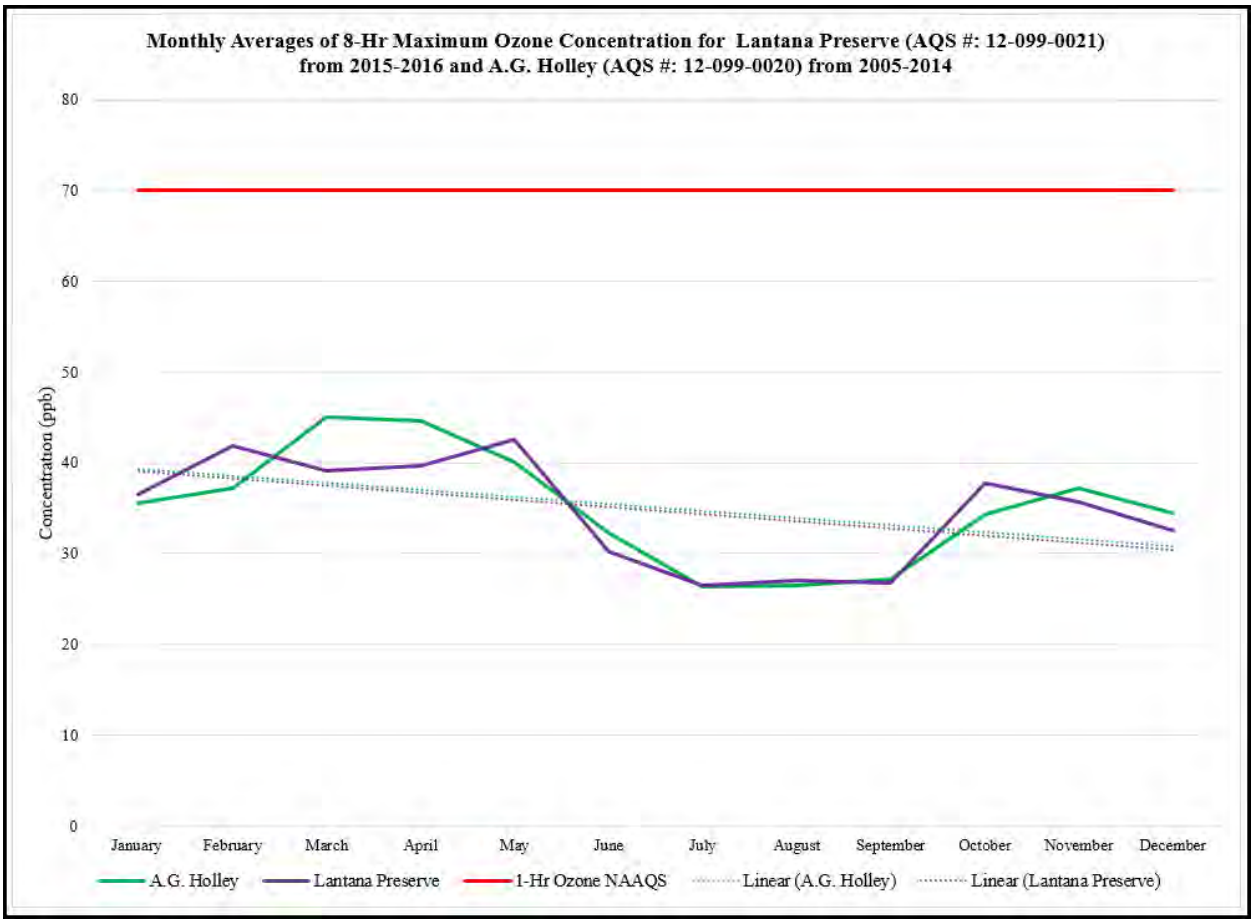


Figure 4.4 Monthly Averages of 8-Hr Max Ozone Conc. for Lantana Preserve and A.G. Holley



Photos and Wind Rose for the Lantana Preserve Site, AQS Site # 12-099-0021

Figure 4.5 Lantana Preserve Site

Figure 4.6 North from Lantana Preserve Site

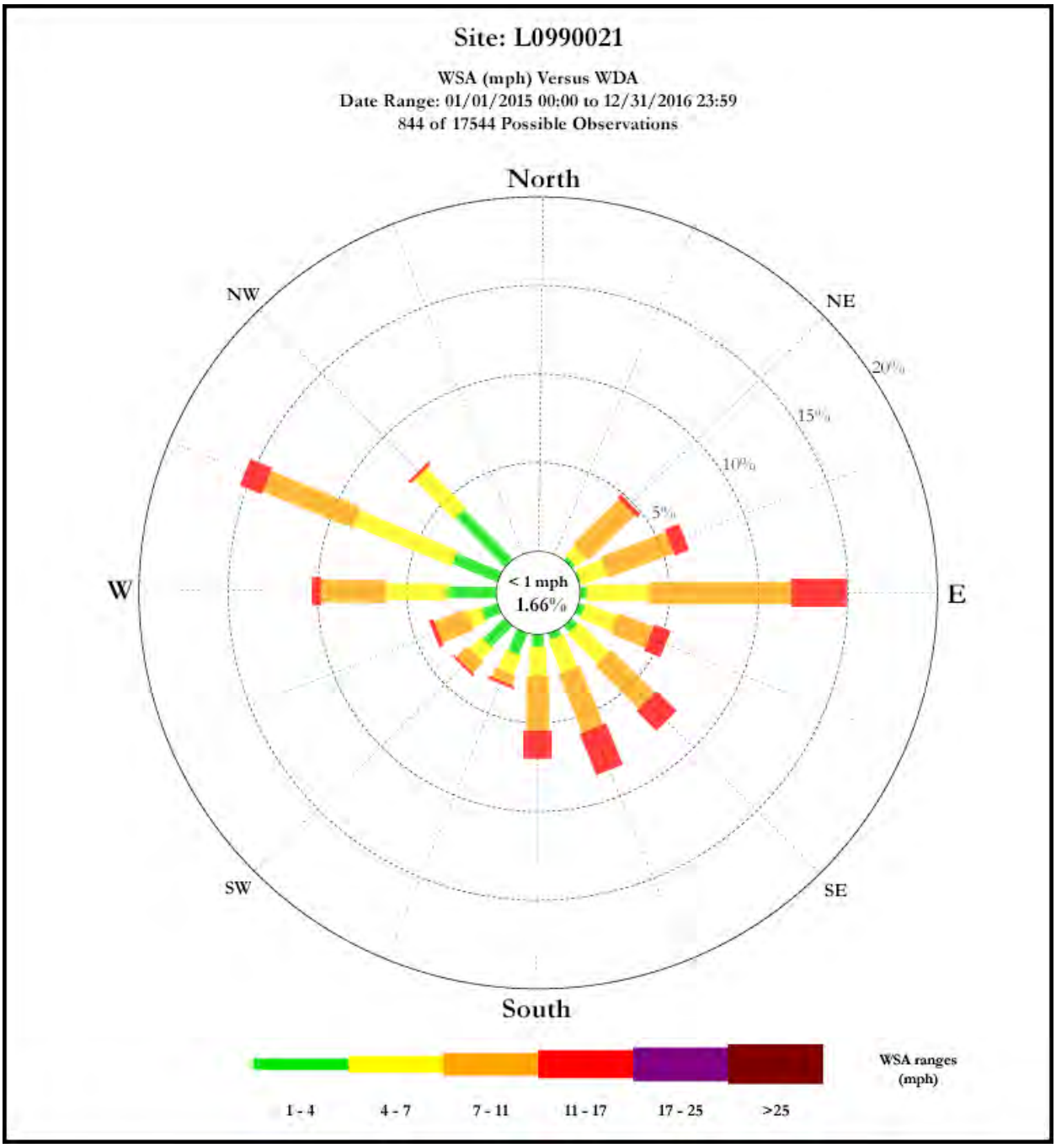
Figure 4.7 South from Lantana Preserve Site

Figure 4.8 East from Lantana Preserve Site

Figure 4.9 West from Lantana Preserve Site

Figure 4.10 A.G. Holley and Lantana Preserve Sites

Figure 4.11 Wind Rose from Lantana Preserve Site (AQS Site 12-099-0021)



Coconut Creek Park - AQS Site # 12-011-5005

The Coconut Creek Park site was relocated to another area of the park and monitoring was suspended on July 24, 2012 while a new platform was constructed at the new location. $PM_{2.5}$ and PM_{10} monitoring resumed in December 2015 and March 2016, respectively. The site continues to monitor the same air mass and retained its AQS Site number.

Photos and Wind Rose for the Coconut Creek Park Site - AQS #12-011-5005

Figure 4.12 North from Coconut Creek Park Site

Figure 4.13 Northeast from Coconut Creek Park Site

Figure 4.14 East from Coconut Creek Park Site

Figure 4.15 Southeast from Coconut Creek Park Site

Figure 4.16 South from Coconut Creek Park Site

Figure 4.17 Southwest from Coconut Creek Park Site

Figure 4.18 West from Coconut Creek Park Site

Figure 4.19 Northwest from Coconut Creek Park Site

Figure 4.20 Coconut Creek Site

Figure 4.21 Aerial Image of Coconut Creek Site (with Former Site Represented by Latitude and Longitude)

Figure 4.22 Waste to Energy Plant at 2600 Wiles Rd and Coconut Creek Site

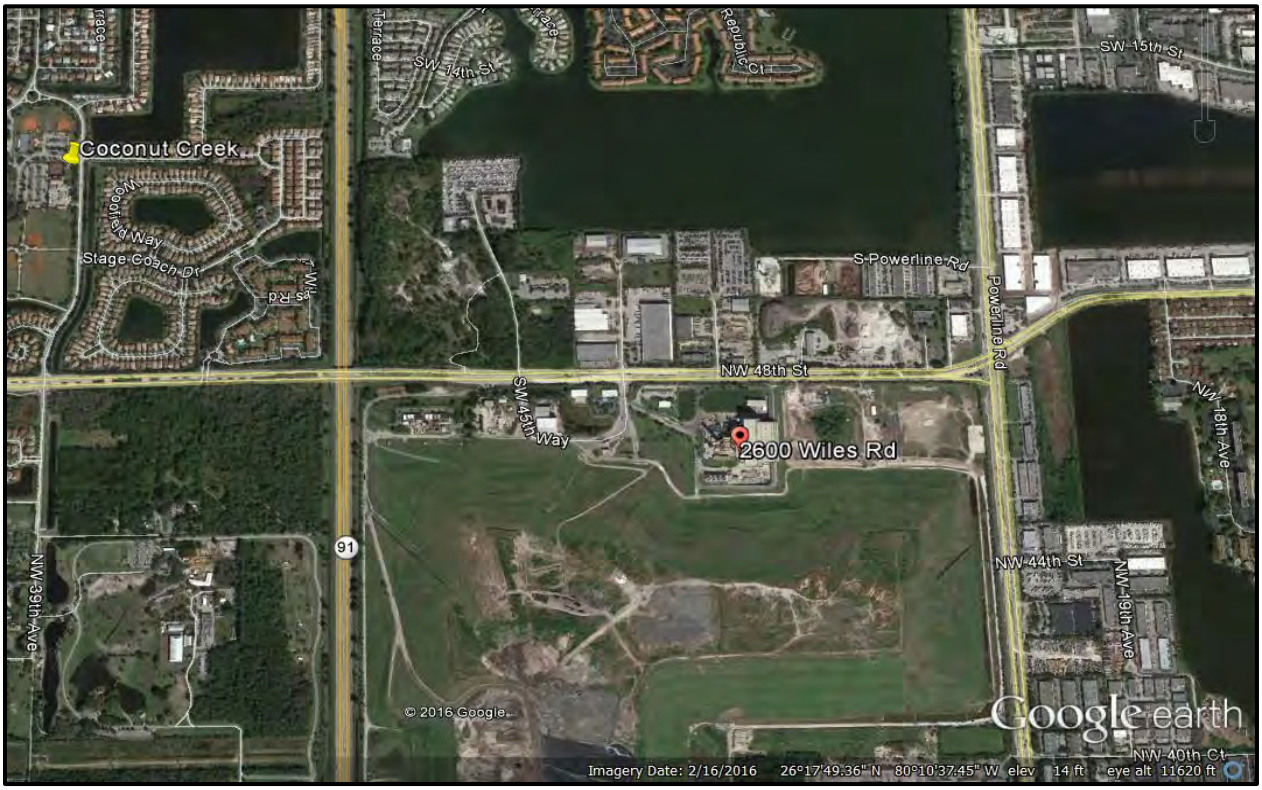
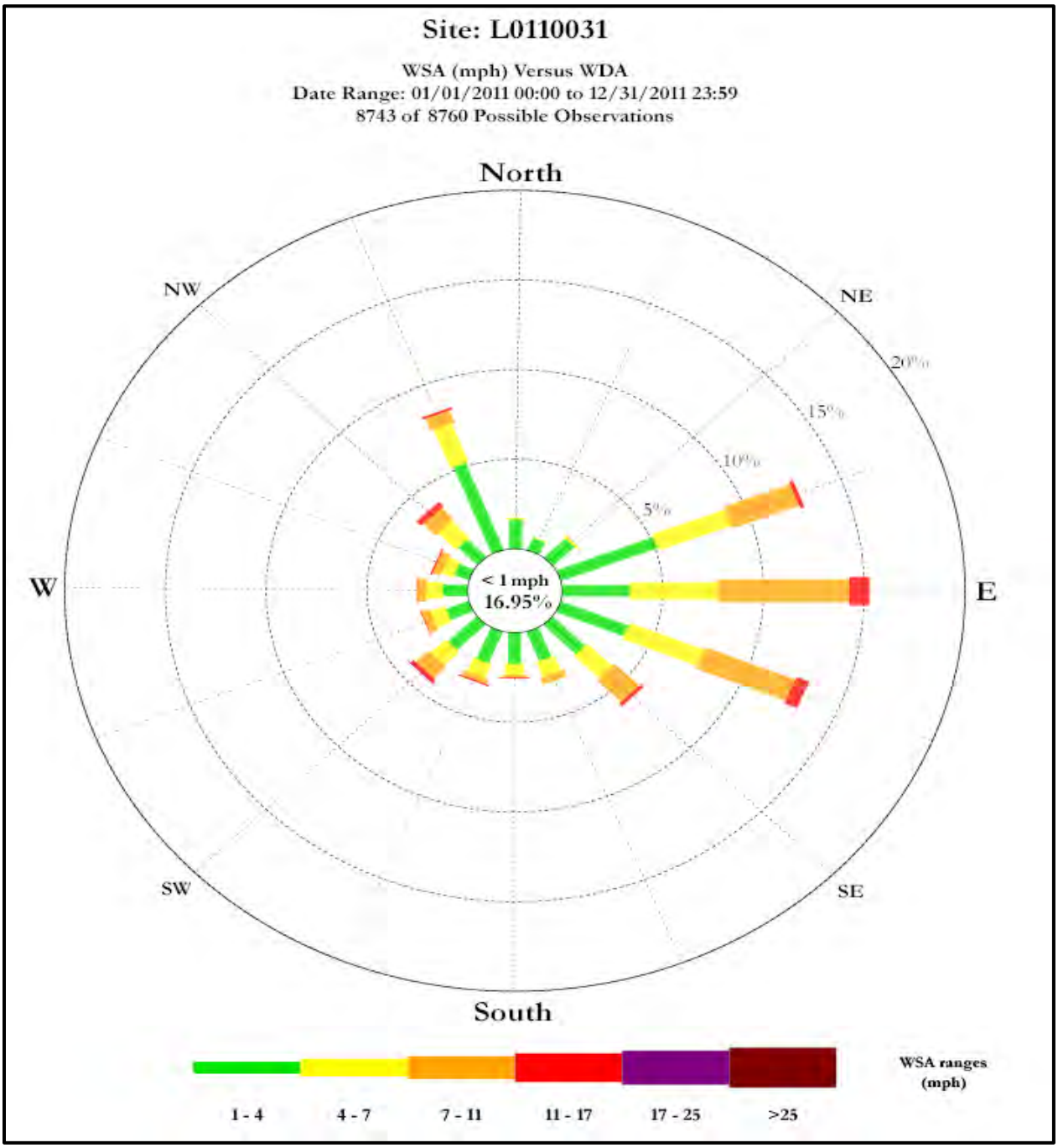


Figure 4.23 Wind Rose for Sawgrass Springs Middle School (AQS Site ID #: 12-011-0031), 11 km west of Coconut Creek Site



Lamstein Lane Site - AQS Site #12-099-0022

Royal Palm Beach Site (AQS Site # 12-099-0009) was removed in October 2015 upon request from the City of Royal Palm Beach. The site will be relocated to Lamstein Lane, AQS Site # 12-099-0022, in July 2017. DEP requests that the datasets for these sites be combined for data completeness.

Photos and Wind Rose for the Lamstein Lane Site - AQS #12-099-0022

Figure 4.24 North from Lamstein Lane Site

Figure 4.25 Northeast from Lamstein Lane Site

Figure 4.26 East from Lamstein Lane Site

Figure 4.27 Southeast from Lamstein Lane Site

Figure 4.28 South from Lamstein Lane Site

Figure 4.29 Southwest from Lamstein Lane Site

Figure 4.30 West from Lamstein Lane Site

Figure 4.31 Northwest from Lamstein Lane Site

Figure 4.32 Aerial Image of Lamstein Lane Site (no obstructions)

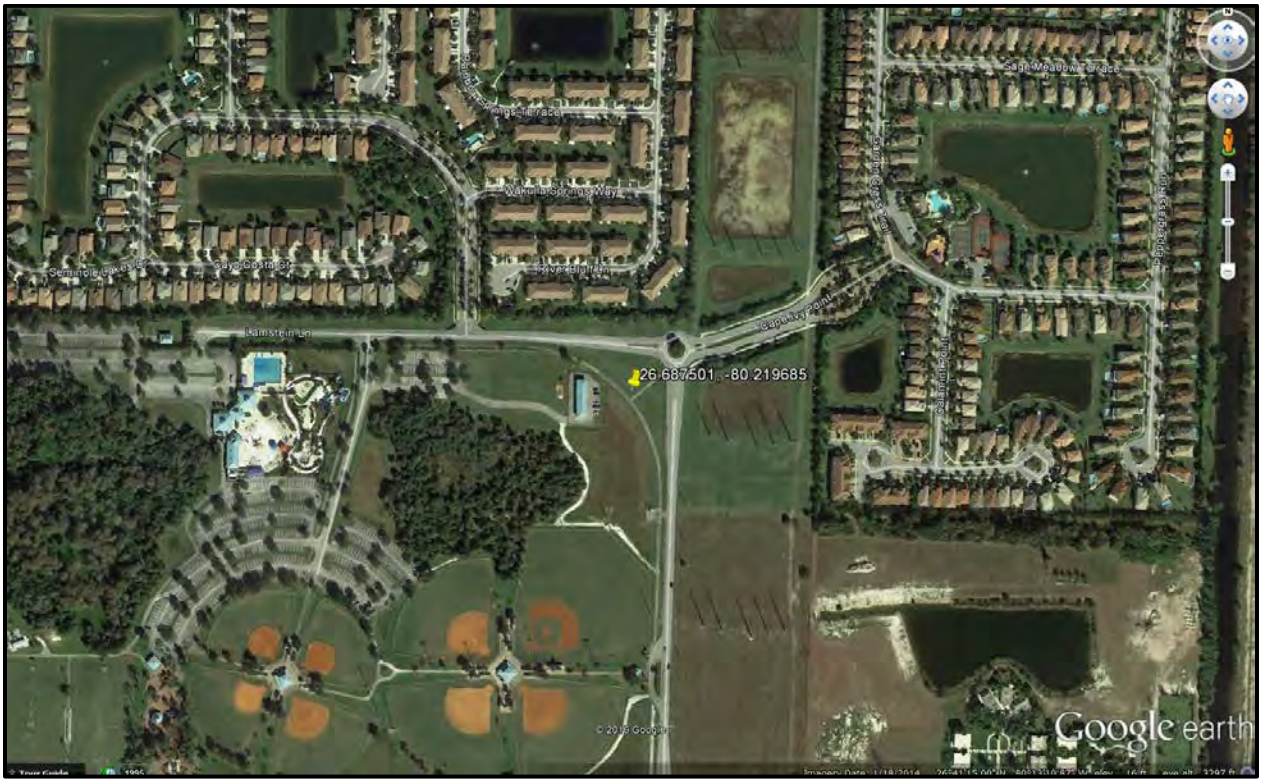


Figure 4.33 Royal Palm Beach Site and Lamstein Lane Relocation (5 km apart)

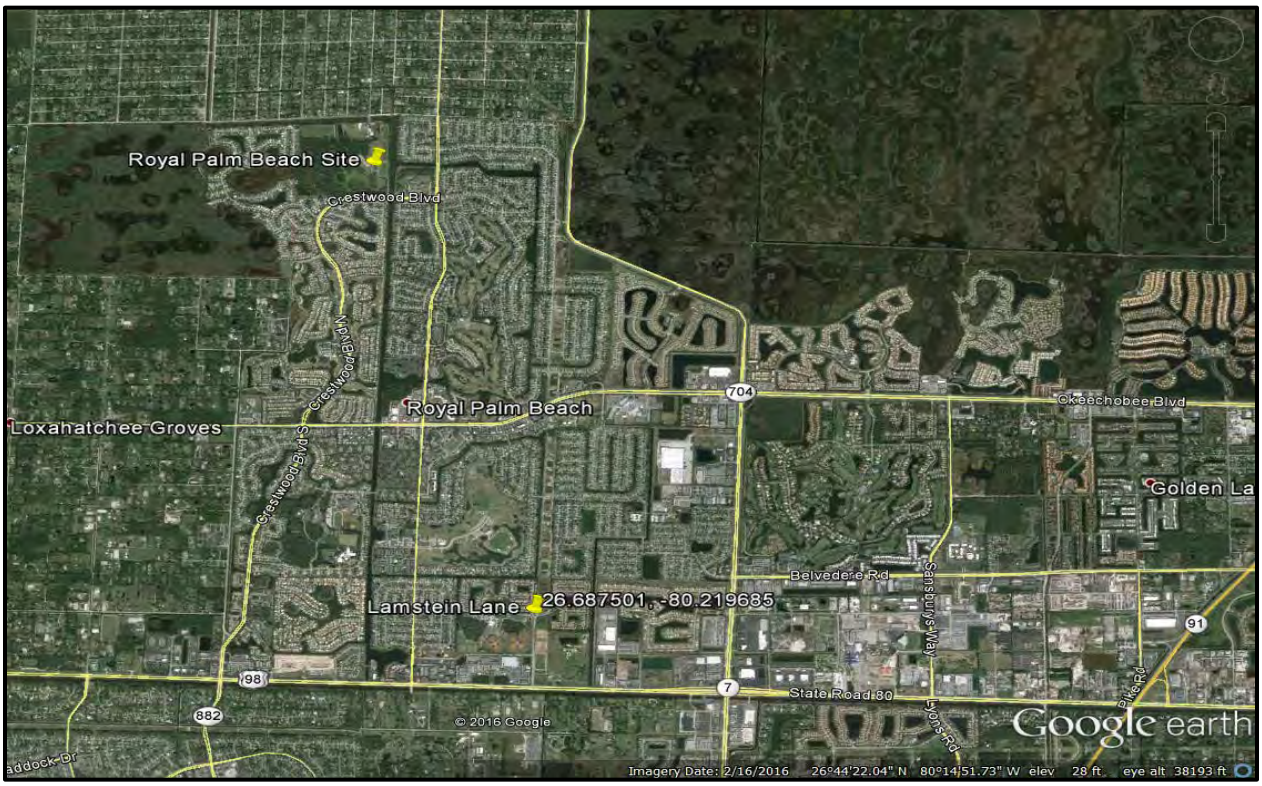
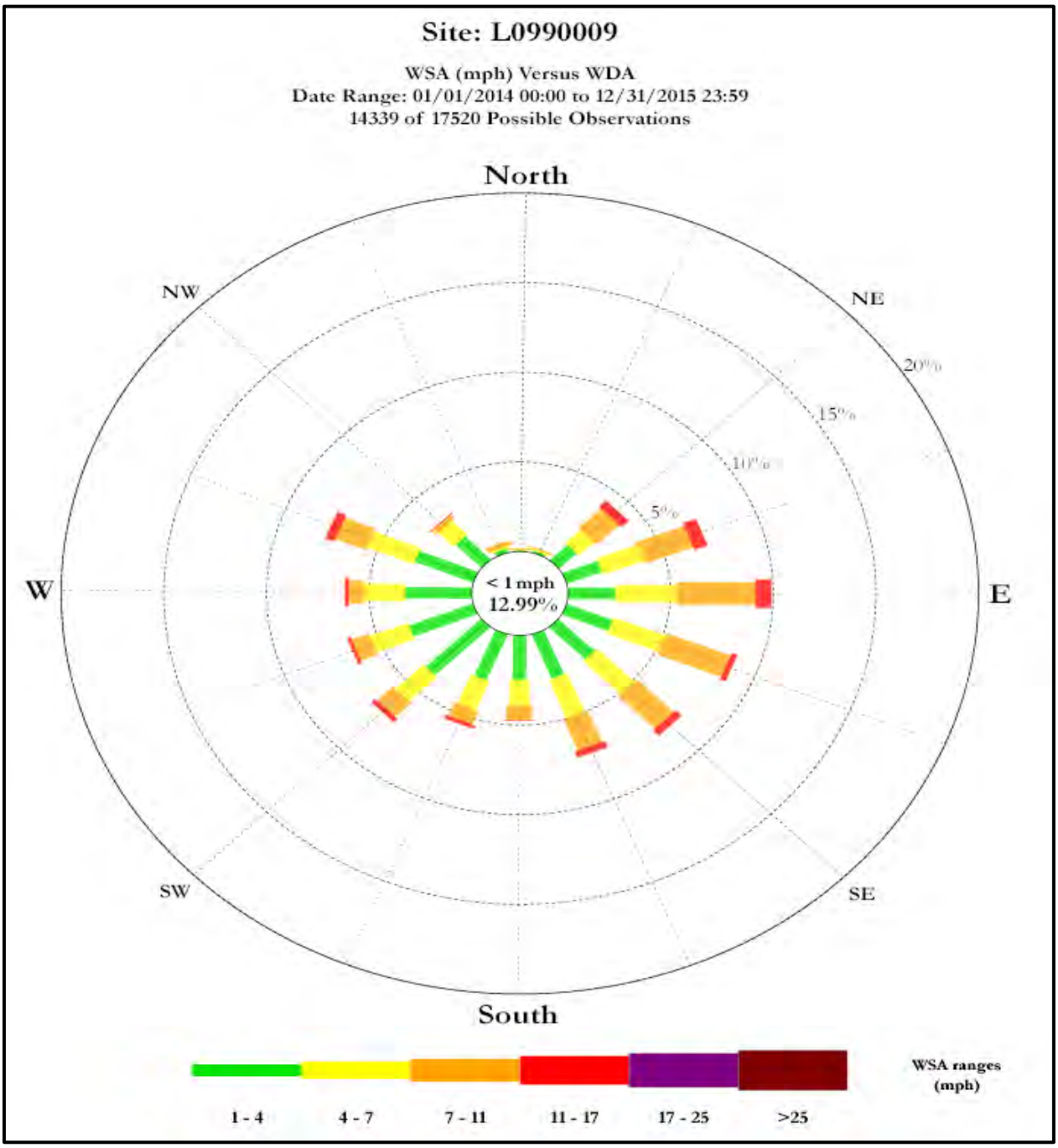


Figure 4.34 Wind Rose from previous Royal Palm Beach Site (AQS # 12-099-0009)



Bonifay - AQS Site #12-059-0004

The Bonifay site was relocated 377 meters south of its original location to comply with the property owners' request. It remains representative of the area's air mass and retained its AQS Site number.

Photos and Wind Rose for the Holmes County: Bonifay Site - AQS #12-059-0004

Figure 4.35 North from Bonifay Site

Figure 4.36 Northeast from Bonifay Site

Figure 4.37 East from Bonifay Site

Figure 4.38 Southeast from Bonifay Site

Figure 4.39 South from Bonifay Site

Figure 4.40 Southwest from Bonifay Site

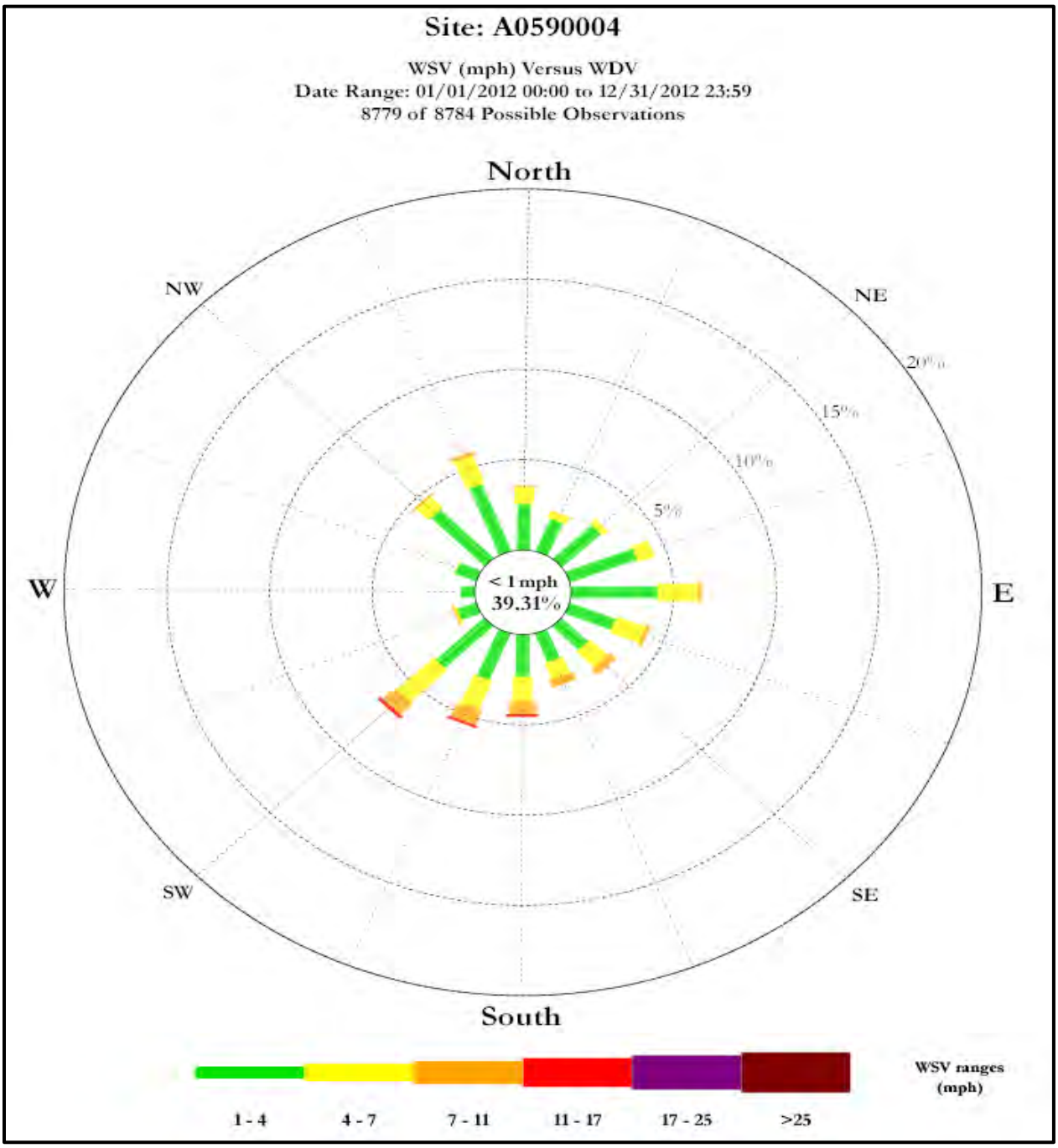
Figure 4.41 West from Bonifay Site

Figure 4.42 Northwest from Bonifay Site

Figure 4.43 Bonifay Site

Figure 4.44 Aerial view of the Bonifay Site

Figure 4.45 Wind Rose from Original Bonifay Location (AQS Site 12-059-0004)



Paynes Prairie Farm - AQS Site #12-001-3012

The Paynes Prairie Site, AQS Site # 12-001-3011, was relocated in December 2016 to the Paynes Prairie Farm to meet siting criteria. It does, however, remain representative of the area's air mass. As the address for the site has changed, the Department has assigned a new AQS Site number.

Photos and Wind Rose for the Alachua County: Paynes Prairie Farm Site - AQS #12-001-3012

Figure 4.46 Paynes Prairie Farm Site

Figure 4.47 North from Paynes Prairie Farm Site

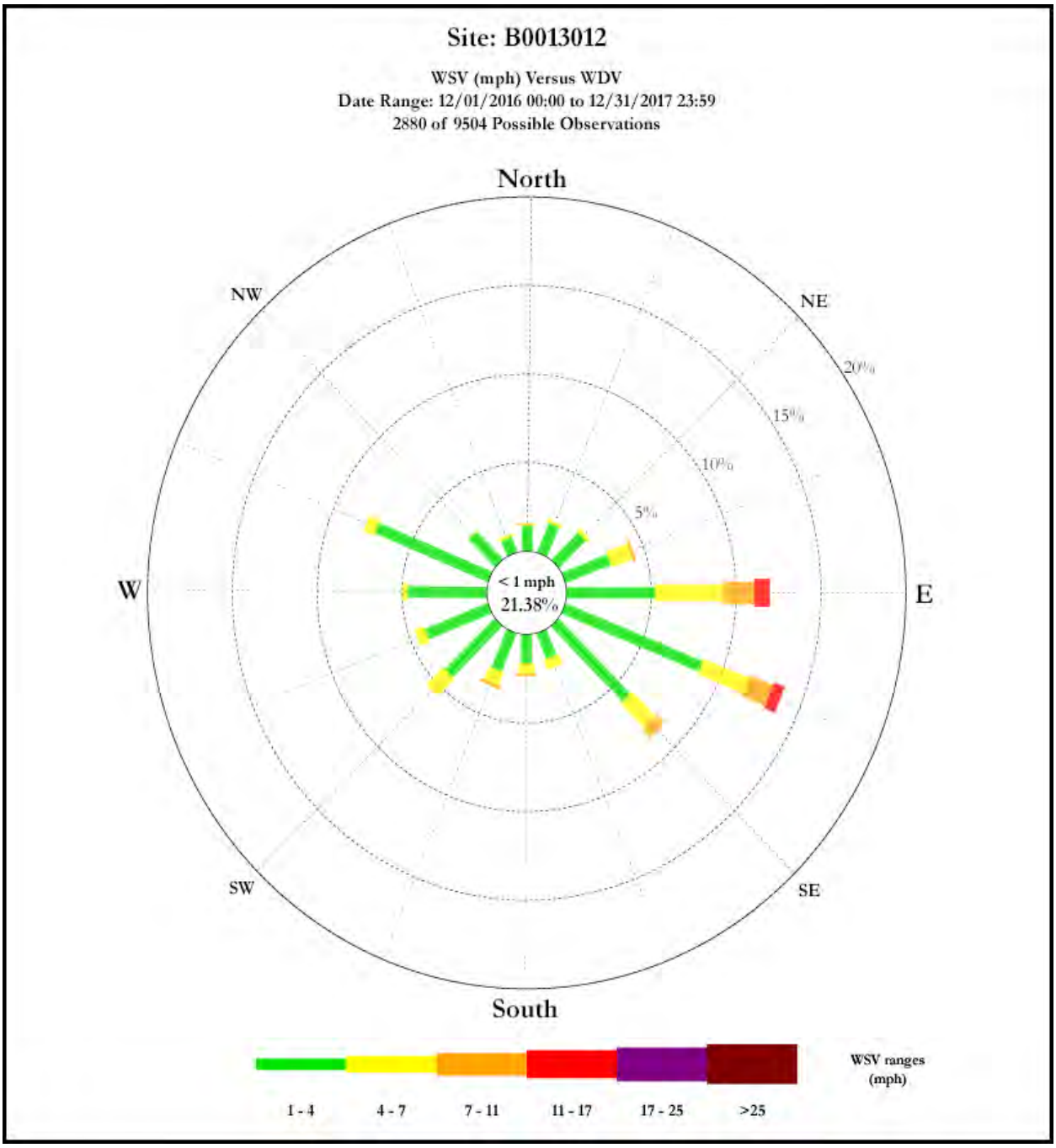
Figure 4.48 South from Paynes Prairie Farm Site

Figure 4.49 East from Paynes Prairie Farm Site

Figure 4.50 West from Paynes Prairie Farm Site

Figure 4.51 Aerial View of Paynes Prairie Farm Site

Figure 4.52 Wind Rose from Paynes Prairie Farm Site (AQS Site 12-001-3012)



Munro Street - AQS Site # 12-057-0113

The Julian B. Lane Park site (AQS Site # 12-057-1111) was relocated 241.4 meters to the west on Munro Street, which allows access to monitor the same segment of I-275. A new site name (Munro Street) and AQS number (12-057-0113) were given after consultation with EPA based on the following factors:

1. The Munro Street site will be 38 meters from the nearest edge of the roadway of I-275, whereas the original site was 19.5 meters to the roadway edge;
2. The new site will have an off-ramp between it and the interstate which may create a step function drop in NO_2 concentrations; and
3. The new AQS number will maintain the supporting information for the concentration record and ensure that the metadata of the original site is not over-written in AQS.

DEP requests that datasets for the two sites be combined for data completeness, since a comparison of the concentrations demonstrate it is appropriate (see Figures 4.51 and 4.52)

Data Comparison for NO_2 Concentrations:

Figure 4.53 Daily 1-hr Max NO_2 Conc. Comparison for Munro Street and Julian B. Lane Park

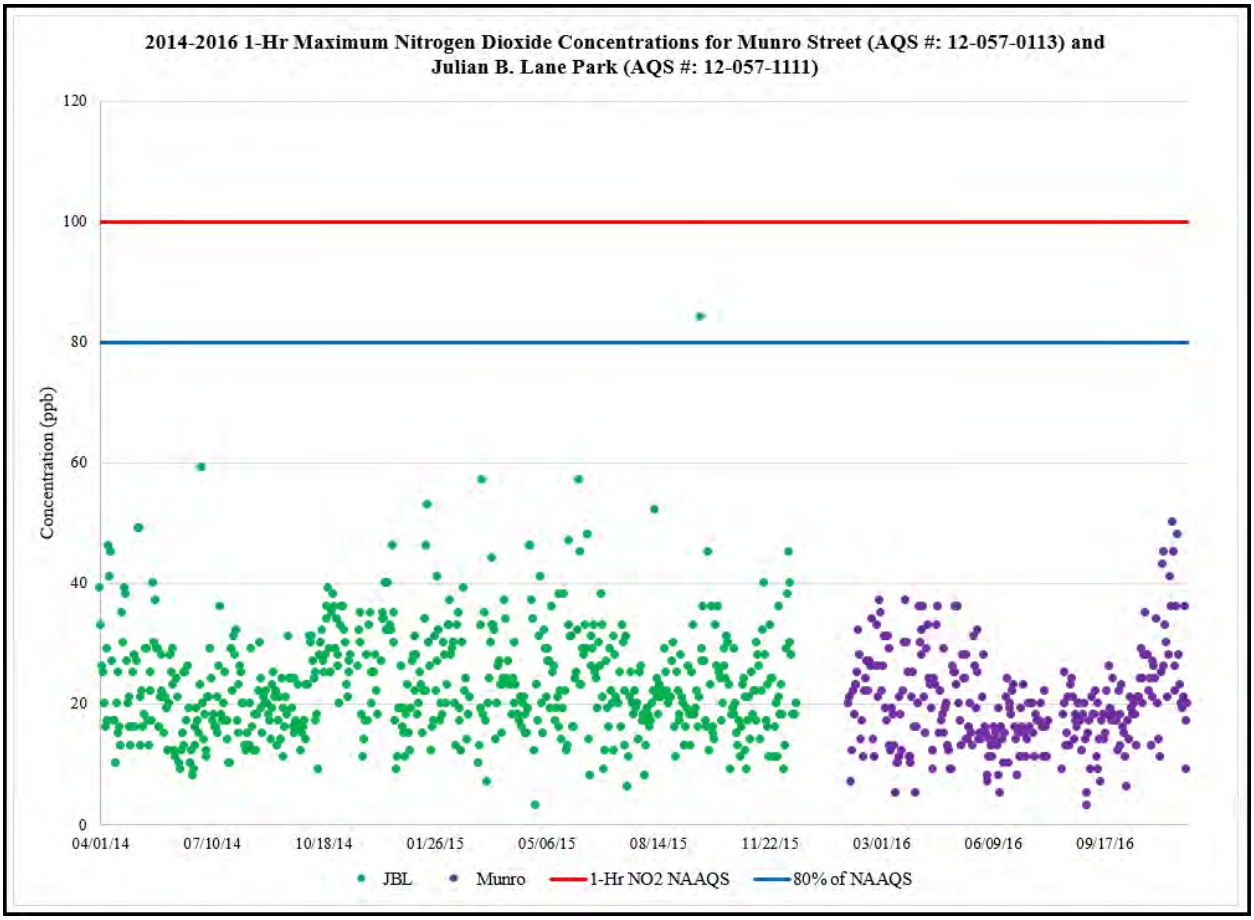
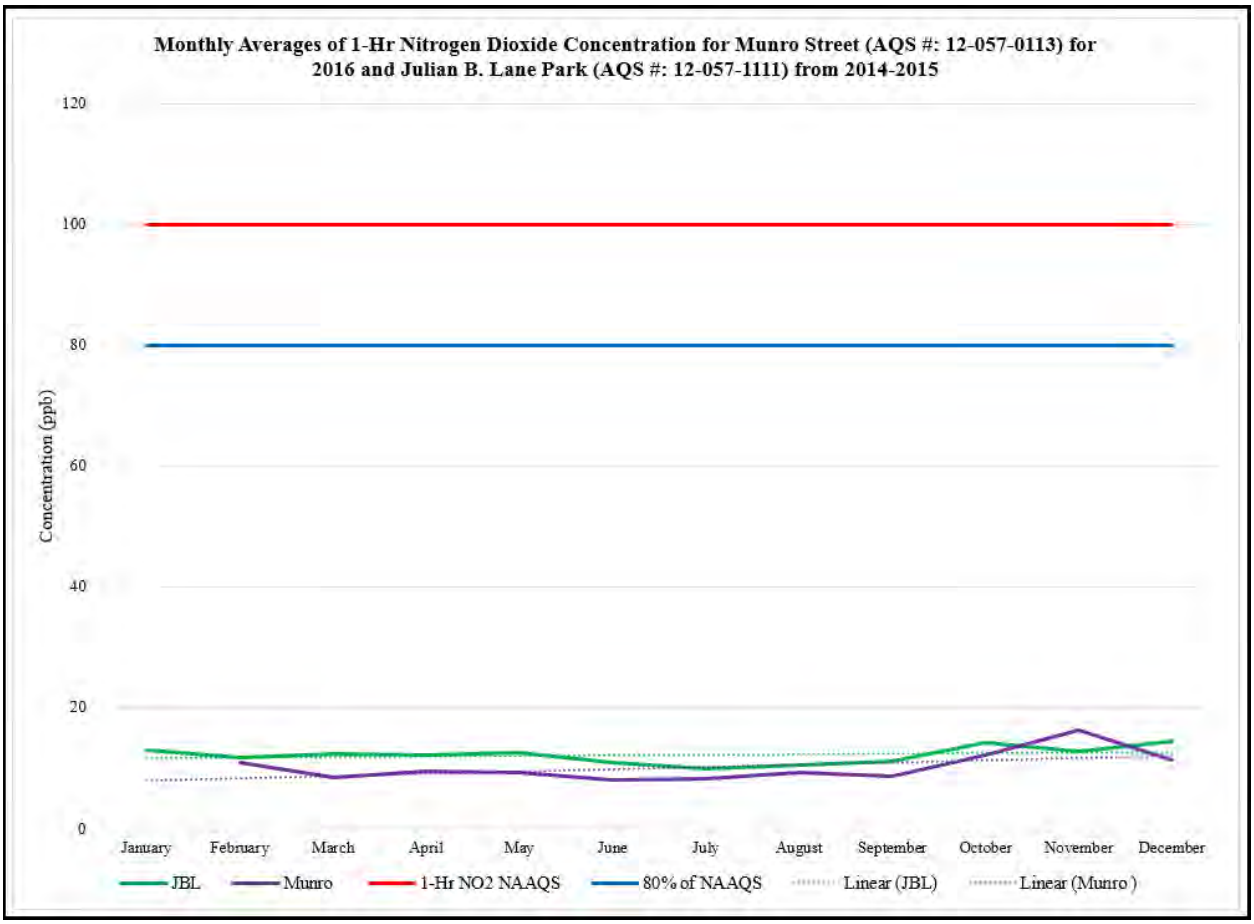


Figure 4.54 Monthly Averages of 1-Hr NO_2 for Munro Street and Julian B. Lane Park



Photos and Wind Rose for the Hillsborough County: Munro Street Site - AQS Site #12-057-0113

Figure 4.55 North from Munro Site

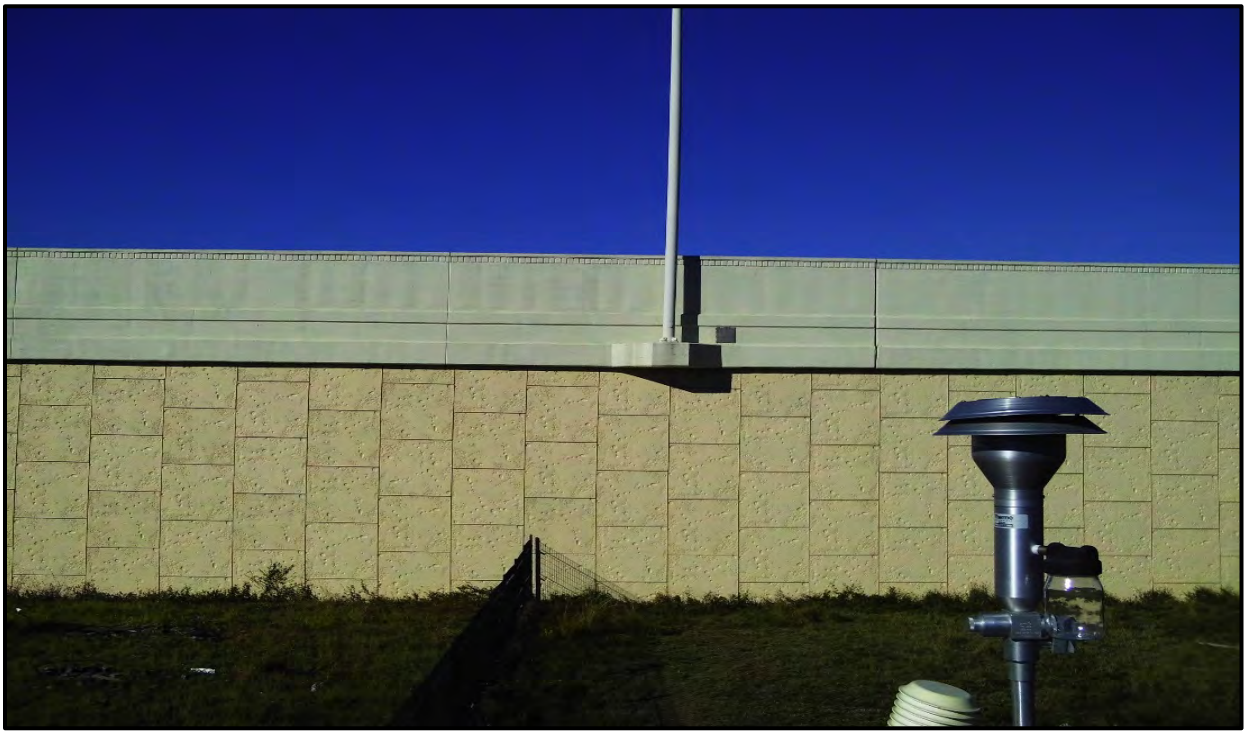


Figure 4.56 Northeast from Munro Site

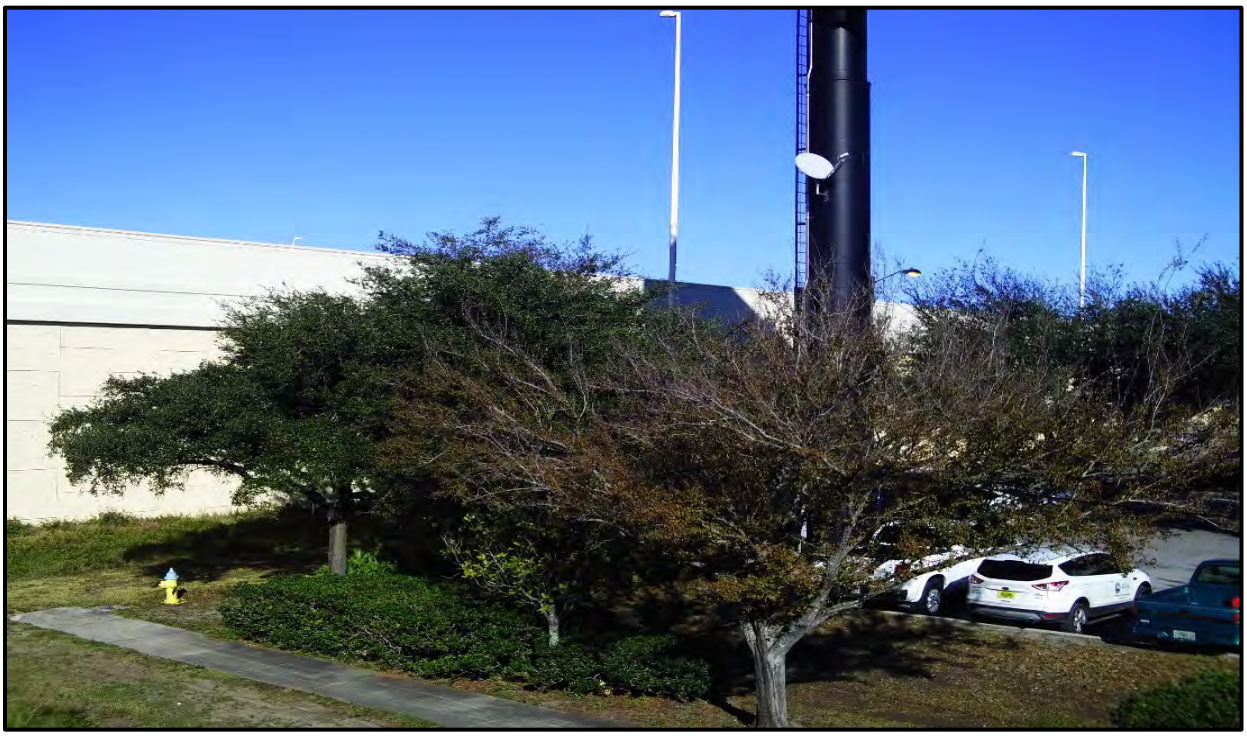


Figure 4.57 East from Munro Site

Figure 4.58 Southeast from Munro Site

Figure 4.59 South from Munro Site

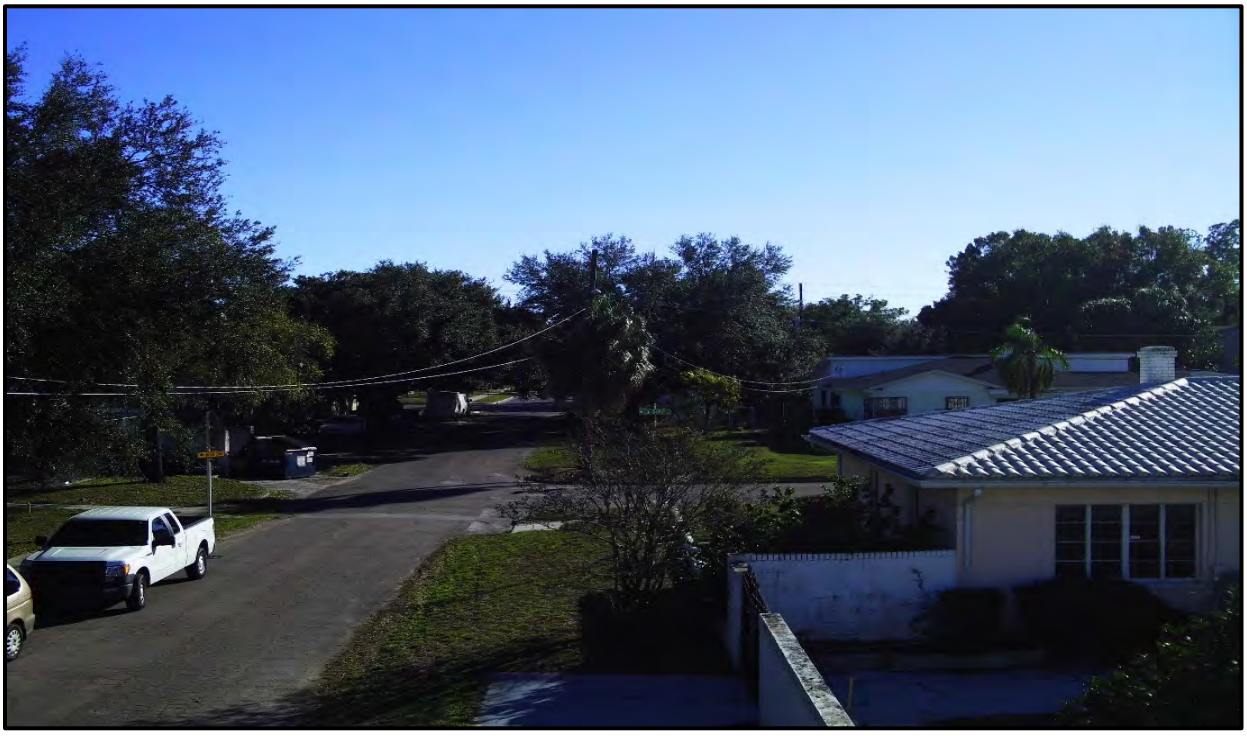


Figure 4.60 Southwest from Munro Site

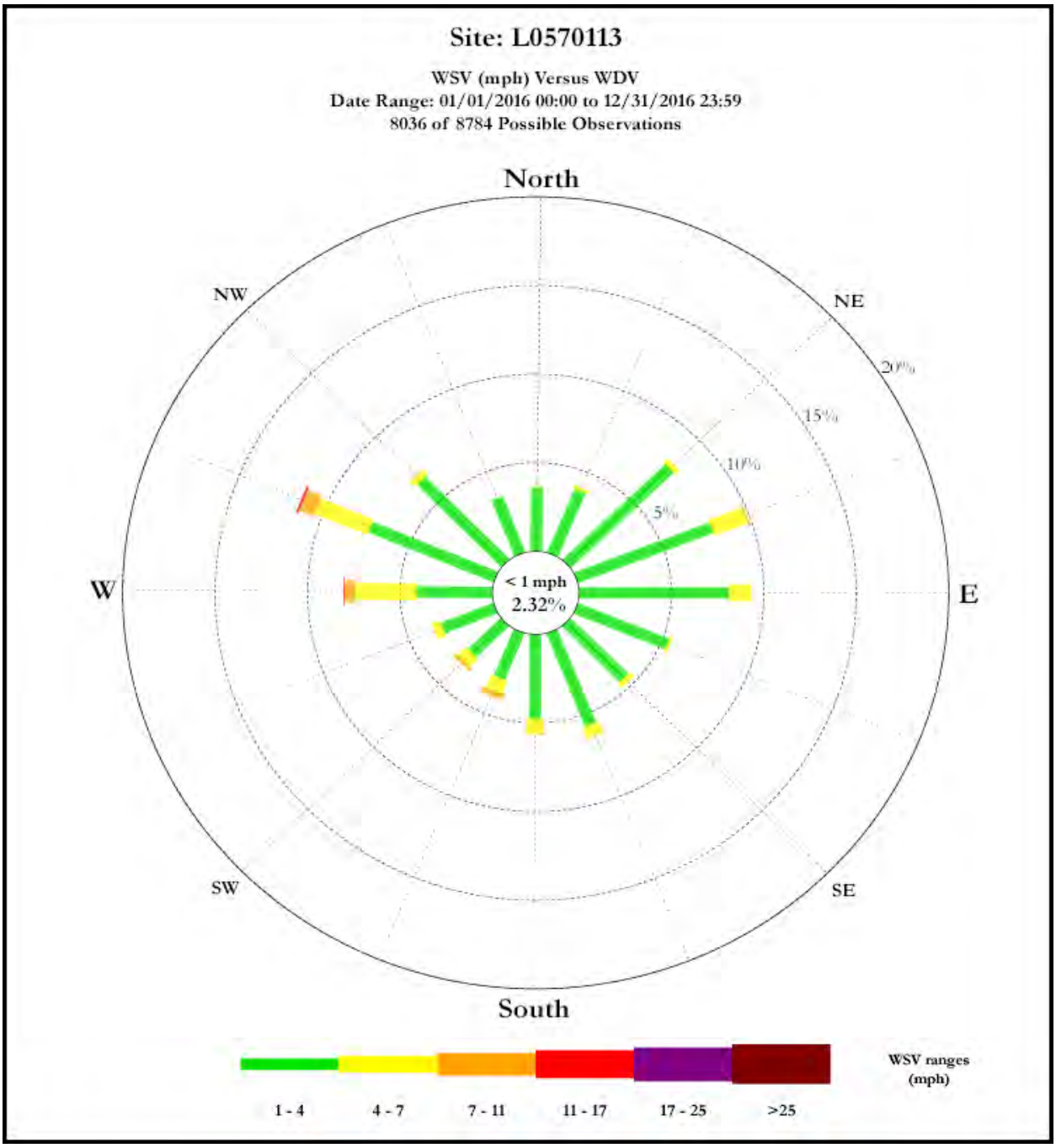
Figure 4.61 West from Munro Site

Figure 4.62 Northwest from Munro Site

Figure 4.63 Aerial of Munro Site

Note: This site has no obstructions.

Figure 4.64 Wind Rose from Munro Street Site (AQS Site 12-057-0113)



Florida Department of Environmental Protection

2016-2017 Annual Air Monitoring Network Plan

APPENDIX B

ANNUAL SITE REVIEW SUMMARY

Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
www.dep.state.fl.us

Annual Site Review Summary

DEP audit staff conduct site reviews to verify that sites meet probe line siting criteria. Identified issues are resolved as quickly as practicable. The date of the most recent site review, notes as to whether there are existing issues, and any comments regarding these issues are provided in Table 1.

Table 1. Annual Site Review Summary

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-001-0023	MILLHOPPER	Manual $PM_{2.5}$ (2)	August 23, 2016	NO	N/A
12-001-3011	PAYNES PRAIRIE	Ozone Continuous $PM_{2.5}$	March 9, 2016	YES	Site relocated on 12/13/2016 due to siting issues and limitations imposed by property owners. The relocated site is Paynes Prairie Farm (AQS# 12-001-3012).
12-001-3012	PAYNES PRAIRIE FARM	Ozone Continuous $PM_{2.5}$	January 4, 2017	NO	This is the relocated Paynes Prairie monitoring site (AQS# 12-001-3011). The site began collecting data on 12/17/2016.
12-003-0002	OLUSTEE	Ozone	November 16, 2016	NO	N/A
12-005-0006	ST. ANDREWS STATE PARK	Ozone Continuous $PM_{2.5}$	November 2, 2016	NO	N/A
12-009-0007	MELBOURNE	Ozone Manual $PM_{2.5}$ Continuous $PM_{2.5}$ Continuous PM_{10}	February 22, 2016	NO	N/A
12-009-4001	COCOA BEACH (FREEDOM 7)	Ozone	April 11, 2016	NO	N/A
12-011-0010	LINCOLN PARK (28)	SO_2 CO Continuous PM_{10}	January 11, 2017	NO	N/A
12-011-0033	VISTA VIEW (SITE #33)	Ozone Continuous $PM_{2.5}$	November 8, 2016	NO	N/A
12-011-0034	BANU (34)	Ozone PM_{10} (2) Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ Trace CO Trace SO_2 NO_y SASS URG Low Volume PM_{10} Summa Toxics	November 9, 2016	NO	N/A
12-011-0035	SUNRISE BOULEVARD (35)	NO_2 CO Continuous $PM_{2.5}$ Ultrafine	January 11, 2017	NO	N/A
12-011-2003	POMPANO HIGHLANDS (1)	Ozone Manual $PM_{2.5}$	November 7, 2016	NO	N/A

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-011-5005	COCONUT CREEK PARK (30)	Manual $PM_{2.5}$	November 7, 2016	NO	N/A
12-011-8002	DR. VON D. MIZELL-EULA JOHNSON STATE PARK (FORMERLY JOHN U LLOYD STATE PARK (25))	Ozone NO_2	January 10, 2017	NO	N/A
12-017-0006	CRYSTAL RIVER PRESERVE STATE PARK	SO_2	November 14, 2016	NO	N/A
12-021-0004	LAUREL OAK ELEMENTARY SCHOOL	Ozone Continuous $PM_{2.5}$	January 10, 2017	NO	N/A
12-023-0002	LAKE CITY - VETERANS DOMICILE	Ozone Continuous $PM_{2.5}$	November 15, 2016	NO	N/A
12-031-0032	KOOKER PARK	SO_2 NO_2 Manual $PM_{2.5}$ Continuous PM_{10}	January 23, 2017	NO	N/A
12-031-0077	SHEFFIELD	Ozone Continuous $PM_{2.5}$ Toxics	May 2, 2016	NO	N/A
12-031-0080	SOUTHSIDE PLAYGROUND	SO_2 CO Toxics	May 2, 2016	NO	N/A
12-031-0081	CEDAR BAY ROAD	SO_2	August 1, 2016	NO	N/A
12-031-0084	ROSSELL & COPELAND	CO Continuous PM_{10} Toxics	October 27, 2016	NO	N/A
12-031-0097	FT. CAROLINE ROAD	SO_2	December 20, 2016	NO	N/A
12-031-0098	MANDARIN	Manual $PM_{2.5}$ Continuous $PM_{2.5}$	January 26, 2017	YES	Trees within 10 meters – being addressed
12-031-0099	SUNNY ACRES PARK	Manual $PM_{2.5}$ (2)	August 1, 2016	NO	N/A
12-031-0100	MAYO CLINIC	Ozone Continuous $PM_{2.5}$ Toxics	August 2, 2016	NO	N/A
12-031-0106	CISCO DRIVE	Ozone	December 19, 2016	NO	N/A
12-031-0107	LEE HIGH SCHOOL	CO	January 24, 2017	YES	Tree within 10 meters – being addressed
12-031-0108	PEPSI PLACE	NO_2 CO Continuous $PM_{2.5}$	January 25, 2017	NO	N/A
12-033-0004	ELLYSON INDUSTRIAL PARK	Ozone SO_2 Manual $PM_{2.5}$ Continuous $PM_{2.5}$	January 31, 2017	YES	Trees above particulate inlets – being addressed
12-033-0018	PENSACOLA NAVAL AIR STATION	Ozone	August 9, 2016	NO	N/A

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-035-0004	FLAGLER	Ozone	October 24, 2016	NO	N/A
12-047-0015	WHITE SPRINGS	SO_2 Continuous $PM_{2.5}$	January 18, 2017	NO	N/A
12-053-0009	D.S. PARROT MIDDLE SCHOOL	Manual $PM_{2.5}$ PM_{10}	July 18, 2016	NO	N/A
12-055-0003	ARCHBOLD	Ozone	January 10, 2017	NO	N/A
12-057-0081	SIMMONS PARK	Ozone SO_2	October 11, 2016	NO	N/A
12-057-0083	GARDINIER	Continuous PM_{10}	April 20, 2016	NO	N/A
12-057-0100	KENLY	Pb	October 11, 2016	NO	N/A
12-057-0109	EAST BAY	SO_2	January 18, 2017	NO	N/A
12-057-0113	MUNRO	Trace NO_2 Trace CO Continuous $PM_{2.5}$	November 16, 2016	NO	N/A
12-057-1035	DAVIS ISLAND	Ozone SO_2 Continuous PM_{10}	July 20, 2016	YES	Trees within 10 meters – being addressed
12-057-1065	GANDY	Ozone NO_2 Continuous $PM_{2.5}$	April 20, 2016	NO	N/A
12-057-1066	GULF COAST LEAD	Pb (2)	April 20, 2016	NO	N/A
12-057-1073	PATENT	Pb	July 21, 2016	NO	N/A
12-057-3002	SYDNEY	Ozone NO_y Trace SO_2 Trace CO Continuous $PM_{2.5}$ Manual $PM_{2.5}$ (2) PM_{10} (2) Low Volume PM_{10} SASS URG Toxics Summa ERG Aromatic Hydrocarbon PM_{10}/Puff	February 1, 2016	NO	N/A
12-059-0004	BONIFAY TRI-COUNTY AIRPORT	Ozone Continuous $PM_{2.5}$	November 1, 2016	NO	N/A
12-069-0002	LOST LAKE ELEMENTARY SCHOOL	Ozone	October 25, 2016	NO	N/A
12-071-0005	FT MYERS WTP (WINKLER PUMP STATION)	Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ Continuous PM_{10}	January 11, 2017	NO	N/A
12-071-2002	CAPE CORAL (ROTARY PARK)	Ozone	July 27, 2016	NO	N/A
12-071-3002	FT. MYERS BEACH (BAY OAKS PARK)	Ozone	July 26, 2016	NO	N/A

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-073-0012	TALLAHASSEE COMMUNITY COLLEGE	Ozone Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ SASS URG RADNET	June 10, 2016	NO	N/A
12-073-0013	MICCOSUKEE GREENWAYS	Ozone	August 18, 2015	NO	Site closed January 31, 2016.
12-081-0028	PORT MANATEE (DEP SO_2)	SO_2	September 20, 2016	NO	N/A
12-081-3002	PORT MANATEE	Ozone	September 20, 2016	NO	N/A
12-081-4012	GT BRAY PARK	Ozone	September 20, 2016	NO	N/A
12-081-4013	39TH STREET	Ozone	September 20, 2016	NO	N/A
12-083-0003	OCALA YMCA	Ozone Continuous $PM_{2.5}$	April 13, 2016	NO	N/A
12-083-0004	MARION COUNTY SHERIFF	Ozone	May 16, 2016	NO	N/A
12-085-0007	STUART	Ozone Continuous $PM_{2.5}$	February 23, 2016	NO	N/A
12-086-0019	PENNSUCO	SO_2	June 20, 2016	NO	N/A
12-086-0027	ROSENSTIEL	Ozone NO_2	July 20, 2016	NO	N/A
12-086-0029	PERDUE	Ozone	June 22, 2016	YES	Trees within 10 meters – being addressed
12-086-0031	CORAL REEF	CO	December 7, 2016	YES	Trees within 10 meters – permanent waiver or site relocation is being considered due to tree-cutting limitations imposed by county ordinance code.
12-086-0033	PALM SPRINGS	Manual $PM_{2.5}$	March 7, 2016	NO	N/A
12-086-0034	KENDALL	CO	March 8, 2016	NO	N/A
12-086-0035	PERIMETER ROAD	NO_2 CO Continuous $PM_{2.5}$	December 7, 2016	NO	N/A
12-086-1016	MIAMI FIRE STATION	Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ PM_{10} (2)	August 15, 2016	NO	N/A
12-086-4002	OLD LAB ANNEX	NO_2 CO	July 19, 2016	NO	N/A
12-086-6001	HOMESTEAD FIRE STATION	Manual $PM_{2.5}$ Continuous $PM_{2.5}$	December 7, 2016	YES	Trees within 10 meters – being addressed.
12-089-0005	FERNANDINA BEACH	SO_2	October 3, 2016	NO	N/A
12-089-0010	YULEE	Continuous $PM_{2.5}$	October 4, 2016	NO	N/A
12-091-0002	FT. WALTON BEACH	Ozone Continuous PM_{10}	August 10, 2016	NO	N/A
12-095-0008	WINEGARD ELEMENTARY SCHOOL	Ozone	March 14, 2016	NO	N/A
12-095-0009	I-4 NEAR ROAD	NO_2 CO Continuous $PM_{2.5}$	October 31, 2016	YES	The siting criteria is not currently being met due to construction. However, a

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
					temporary monitoring waiver was granted from EPA – See Section 5 in this Network Plan for details. Site will temporarily close on 7/1/2017.
12-095-2002	WINTER PARK	Ozone NO_2 SO_2 CO Manual $PM_{2.5}$ (2) PM_{10} (2) Continuous $PM_{2.5}$ Summa Carbonyl	October 31, 2016	NO	N/A
12-097-2002	OSCEOLA COUNTY FIRE STATION - FOUR CORNERS	Ozone	October 25, 2016	YES	Trees within 10 meters of inlet – being addressed
12-099-0008	BELLE GLADE	Continuous $PM_{2.5}$	November 29, 2016	NO	N/A
12-099-0021	LANTANA PRESERVE	Ozone NO_2 Continuous PM_{10}	November 28, 2016	NO	N/A
12-099-0022	LAMSTIEN LANE	Ozone Manual $PM_{2.5}$ (2) Continuous PM_{10}	November 29, 2016	NO	N/A
12-099-2005	DELRAY BEACH HEALTH DEPARTMENT	Manual $PM_{2.5}$	November 28, 2016	NO	N/A
12-101-0005	SAN ANTONIO	Ozone	November 28, 2016	NO	N/A
12-101-2001	HOLIDAY	Ozone	November 29, 2016	NO	N/A
12-103-0004	ST. PETERSBURG COLLEGE (CLEARWATER)	Ozone	January 25, 2017	NO	N/A
12-103-0012	WOODLAWN (PINELLAS)	PM_{10}	January 24, 2017	YES	Trees within 10 meters of inlet – being addressed
12-103-0018	AZALEA PARK	Ozone NO_2 Manual $PM_{2.5}$ (2) PM_{10} Continuous $PM_{2.5}$ Carbonyl VOC	June 15, 2016	NO	N/A
12-103-0023	DERBY LANE	SO_2	October 26, 2016	NO	N/A
12-103-0027	SAWGRASS LAKE	NO_2 CO Aethelometer	July 13, 2016	NO	N/A
12-103-1009	SANDY LANE	Manual $PM_{2.5}$	April 6, 2016	NO	N/A
12-103-2008	GATEWAY	CO	January 24, 2017	NO	N/A
12-103-3004	COUNTY MOTORPOOL ULMERTON	Manual PM_{10} (2)	October 24, 2016	NO	N/A

AQS #	Site Name	Parameter(s)	Site Review Date*	Issues?	Issues/Comments
12-103-5002	EAST LAKE	Ozone Continuous $PM_{2.5}$ PM_{10}	April 5, 2016	NO	N/A
12-103-5003	OAKWOOD	SO_2	April 5, 2016	NO	N/A
12-105-6005	SIKES ELEMENTARY SCHOOL	Ozone SO_2	September 14, 2016	NO	N/A
12-105-6006	BAPTIST CHILDRENS HOME	Ozone Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ Continuous PM_{10}	February 16, 2016	YES	Trees are too close and too tall for all inlets – being addressed
12-107-1008	PALATKA BARGE PORT	SO_2 Continuous PM_{10}	March 8, 2016	NO	N/A
12-111-0013	SAVANNAS	Ozone	February 24, 2016	NO	N/A
12-113-0015	WOODLAWN BEACH MIDDLE SCHOOL	Ozone Continuous $PM_{2.5}$	January 30, 2017	NO	N/A
12-115-0013	BEE RIDGE	Manual $PM_{2.5}$ Continuous $PM_{2.5}$	April 18, 2016	NO	N/A
12-115-1005	LIDO PARK	Ozone	October 11, 2016	NO	N/A
12-115-1006	PAW PARK	Ozone NO_2 Continuous PM_{10}	October 12, 2016	NO	N/A
12-115-2002	JACKSON ROAD	Ozone Continuous $PM_{2.5}$	October 11, 2016	NO	N/A
12-117-1002	SEMINOLE STATE COLLEGE	Ozone Manual $PM_{2.5}$ (2) Continuous PM_{10}	October 24, 2016	NO	N/A
12-127-2001	PORT ORANGE	Ozone	August 22, 2016	YES	Trees within 10 meters – being addressed
12-127-5002	DAYTONA - BLIND SERVICES	Ozone Manual $PM_{2.5}$ (2) Continuous $PM_{2.5}$ Continuous PM_{10}	August 24, 2016	NO	N/A
12-129-0001	ST. MARKS WILDLIFE REFUGE	Ozone NO_y Trace SO_2 Trace CO Continuous $PM_{2.5}$	November 10, 2016	NO	N/A

*Includes site reviews conducted as of February 3, 2017.

Florida Department of Environmental Protection

2016-2017
Annual Air Monitoring
Network Plan

APPENDIX C

AMBIENT AIR MONITORING NETWORK DESCRIPTION

Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
www.dep.state.fl.us

Florida's Ambient Air Monitoring Network Description

METROPOLITAN STATISTICAL AREA: MIAMI - FT LAUDERDALE - MIAMI BEACH (BROWARD, MIAMI-DADE AND PALM BEACH COUNTIES)												
Broward County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-011-0010	Lincoln Park Elementary	600 NW 19th Ave, Ft. Lauderdale, FL 33311; 3331126.131944, -80.166667	SLAMS	CO	1	Continuous	Teledyne T300	HI CONC	NBH	TRENDS MONITORING	CLOSE	SU 1/1/1992; SD EXPECTED 7/1/2017
			SLAMS	SO_2	1	Continuous	Teledyne T100	HI CONC	NBH	SOURCE MONITORING	CLOSE/RELOCATION	SU 5/1/1992; SD EXPECTED 7/1/2017; Relocation to Dr. Von Mizell-Eula Johnson State Park
			SLAMS	PM_{10}	3	Continuous	MET One BAM 1020	HI CONC	NBH	TRENDS MONITORING	CLOSE/RELOCATION	SU 7/1/2014; SD EXPECTED 7/1/2017; Relocation to Pompano Highland Fire House
			NON-REG	Toxics		Every 6th Day		POP EXP	NBH	BASELINE MONITORING	CLOSE	SU 11/21/2009; SD 3/31/2016
12-011-0033	Vista View Park	3211 College Ave, Davie, FL 33330; 26.073056, -80.338889	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	TRENDS MONITORING		SU 7/1/2008
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	POP EXP	NBH	TRENDS MONITORING		SU 1/28/2009
			NON-REG	Toxics		Every 6th Day		POP EXP	NBH	BASELINE MONITORING	CLOSE	SU 1/1/2015; SD 3/31/2016
12-011-0034	Daniela Banu (NCore Site)	5300 S. Pine Island Rd., Davie, FL 33328; 26.0538889, -80.2569444	SLAMS	CO	1	Continuous	Thermo 48C-TLE	POP EXP	NBH	NEEDED BY REGULATION		SU 7/1/2015; Trace Level; MET EXPECTED 7/1/2017
			SLAMS	SO_2	1	Continuous	Thermo 43i-TLE	POP EXP	NBH	NEEDED BY REGULATION		SU 7/1/2015; Trace Level
			SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	NEEDED BY REGULATION		SU 7/1/2015
			SLAMS	PM_{10}	1	Every 6th Day	Tisch	POP EXP	NBH	NEEDED BY REGULATION		SU 1/18/2015;
			SLAMS	PM_{10}	2	Every 6th Day	Tisch	POP EXP	NBH	NEEDED BY REGULATION		SU 1/18/2015, Collocated monitor
			SLAMS	$PM_{2.5}$	1	Daily	Thermo 2025i	POP EXP	NBH	NEEDED BY REGULATION		SU 1/1/2015; Collocated monitor
			SLAMS	$PM_{2.5}$	2	Every 6th Day	Thermo 2025i	POP EXP	NBH	QA COLLOCATION		SU 1/1/2015; Collocated monitor
			SLAMS	$PM_{2.5}$	3	Continuous	Thermo 5014i	POP EXP	NBH	NEEDED BY REGULATION		SU 7/1/2015; FEM
			SLAMS	NO_y	1	Continuous	Thermo 42i-Y	POP EXP	NBH	NEEDED BY REGULATION		SU 7/1/2015; Trace Level
			SLAMS	SPEC. $PM_{2.5}$	5	Every 6th Day	MET ONE SASS	POP EXP	NBH	TRENDS MONITORING		SU 1/1/2015
			SLAMS	PMCoarse	1	Daily	Thermo/R&P 2025	POP EXP	NBH	NEEDED BY REGULATION		SU 1/1/2016
			CSN	EC/OC		Every 3rd Day	URG 3000N	POP EXP	NBH	TRENDS MONITORING		SU 1/1/2015
			NON-REG	Toxics		Every 6th Day		POP EXP	NBH	BASELINE MONITORING		SU 11/1/2015
12-011-0035	Fort Lauderdale Near Road	799 N I-95, Ft. Lauderdale, FL 33311; 26.131256, -80.167847	SLAMS	CO	1	Continuous	Thermo 48i-TLE	POP EXP	URBAN	NEEDED BY REGULATION		SU 8/1/2015; Trace level
			SLAMS	NO_2	1	Continuous	Teledyne T200UP	POP EXP	URBAN	NEEDED BY REGULATION		SU 8/1/2015; Near-road Site
			SLAMS	$PM_{2.5}$	3	Continuous	Thermo 5014i	POP EXP	URBAN	NEEDED BY REGULATION		SU 8/1/2015; FEM
			SLAMS	BC	1	Continuous	Teledyne API 633	POP EXP	URBAN	NEEDED BY REGULATION	ADD	SU 1/20/2017
			SLAMS	UFP	1	Continuous	TSI 3031	POP EXP	URBAN	NEEDED BY REGULATION	ADD	SU 3/15/2017
12-011-2003	Pompano Highland Fire House	1951 NE 48th Street, Pompano Beach, FL 33060; 26.290833, -80.096667	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	RELIED ON FOR SPATIAL COVERAGE		SU 1/1/1989
			SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo/R&P 2025	HI CONC	NBH	INTERPOLATION		SU 7/10/2010
			SPM	PM_{10}	3	Continuous	MET One BAM 1020	HI CONC	NBH	TRENDS MONITORING	ADD/RELOCATION	SU EXPECTED 4/1/2018; Relocation from Lincoln Park

12-011-5005	Coconut Creek	4010 Winston Park Blvd, Coconut Creek, FL 33073; 26.294167, -80.176389	SLAMS	PM_{10}	1	Every 6th Day	Tisch	POP EXP	NBH	SOURCE MONITORING		SU 10/31/1995
			SLAMS	$PM_{2.5}$	1	Daily	Thermo 2025i	POP EXP	NBH	NEEDED BY REGULATION		SU 9/30/2009
			NON-REG	Toxics		Every 6th Day		POP EXP	NBH	BASELINE MONITORING	CLOSE	SU 11/1/2009; SD 3/31/2016
12-011-8002	Dr. Von Mizell-Eula Johnson State Park *(formerly John U. Lloyd Beach State Park)*	7000 N. Ocean Dr., Dania, FL 33004; 26.088056, -80.111389	SLAMS	NO_2	1	Continuous	Thermo 42i	POP EXP	NBH	COMM-WIDE MONITORING		SU 7/8/1990
			SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	NBH	NEEDED BY REGULATION		SU 1/1/1985
			SLAMS	SO_2	1	Continuous	Teledyne T100	HI CONC	NBH	SOURCE MONITORING	ADD/RELOCATION	SU EXPECTED 4/1/2018; Relocation from Lincoln Park
			NON-REG	Toxics		Every 6th Day		POP EXP	NBH	BASELINE MONITORING	CLOSE	SU 11/1/2009; SD 3/31/2016
Miami-Dade County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-086-0019	Pennsuco	14001-14027 N Okeechobee Rd, Hialeah, FL 33018; 25.899167, -80.382778	SLAMS	SO_2	1	Continuous	Thermo 43i	SOURCE	NBH	TRENDS MONITORING		SU 8/18/1987
12-086-0027	Rosenstiel (University of Miami)	4600 Rickenbacker Causeway, Miami, FL 33149; 25.732500, -80.161944	SLAMS	NO_2	1	Continuous	Teledyne T200	POP EXP/ UPWIND BKGD	NBH	VULNERABLE AND SUSCEPTIBLE MONITORING		SU 1/30/1985
			SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP/ UPWIND BKGD	NBH	NEEDED BY REGULATION		SU 3/7/1984
12-086-0029	Perdue	19590 Old Cutler Rd, Cutler Ridge, FL 33157; 25.586944, -80.326111	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	USED FOR AQI		SU 5/1/1985
12-086-0031	Coral Reef	16000 S. Dixie Hwy, Miami, FL 33157; 25.621667, -80.344444	SLAMS	CO	1	Continuous	Teledyne 300E	POP EXP	NBH	TRENDS MONITORING	CLOSE	SU 7/1/1991; SD EXPECTED 7/1/2017
12-086-0033	Palm Springs Fire Station	7700 NW 186th St, Palm Springs, FL 33015; 25.9419444, -80.3263889	SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo 2025i	POP EXP	NBH	MONITORING GROWTH IMPACT		SU 5/4/2005
12-086-0034	Kendall	9015 SW 127th Ave, Miami, FL 33186; 25.683330, -80.399722	SLAMS	CO	1	Continuous	Teledyne 300E	POP EXP	MIDDLE	TRENDS MONITORING	CONVERT TO SPM	SU 4/27/2005
12-086-0035	Perimeter Road	5600 Perimeter Road, Miami, FL 33126; 25.7854722, -80.2842055	SLAMS	NO_2	1	Continuous	Teledyne T200UP	SOURCE	MICRO	NEEDED BY REGULATION	ADD	SU 1/11/2016; Near-road Site
12-086-1016	Miami Fire Station	1200 NW 20th St, Miami, FL 33142; 25.794722, -80.215556	SLAMS	PM_{10}	1	Every 6th Day	ANDERSEN 1200	HI CONC	NBH	NEEDED BY REGULATION		SU 1/1/1985
			SLAMS	PM_{10}	2	Every 6th Day	ANDERSEN 1200	HI CONC	NBH	QA COLLOCATION		SU 7/1/1988; Collocated monitor
			SLAMS	$PM_{2.5}$	1	Daily	Thermo 2025i	HI CONC	NBH	NEEDED BY REGULATION		SU 2/4/1999
			SLAMS	$PM_{2.5}$	2	Every 6th Day	Thermo 2025i	HI CONC	NBH	QA COLLOCATION		SU 2/4/1999; Collocated monitor
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	HI CONC	NBH	NEEDED BY REGULATION		SU 4/3/2002
12-086-4002	Lab Annex	864 NW 3rd St, Miami, FL 33127; 25.798333, -80.210278	SLAMS	CO	1	Continuous	Teledyne 300E	HI CONC	NBH	TRENDS MONITORING		SU 1/1/1976
			SLAMS	NO_2	2	Continuous	Teledyne T200	HI CONC	NBH	ASSIST IN FORCASTING		SU 1/1/1984
12-086-6001	Homestead Fire Station	325 NW 2nd St, Homestead, FL 33030; 25.471944, -80.482778	SLAMS	$PM_{2.5}$	1	Daily	Thermo/R&P 2025	POP EXP	NBH	NEEDED BY REGULATION		SU 1/27/1999
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	POP EXP	NBH	USED FOR AQI		SU 2/10/2004

Palm Beach County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-099-0021	Lantana Preserve	968 N 8th St, Lantana, FL 33462; 26.5938083, -80.0584917	SPM	NO_2	1	Continuous	Teledyne T200	POP EXP	NBH	ASSIST IN FORCASTING		SU 2/2/2015
			SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	URBAN	NEEDED BY REGULATION		SU 2/2/2015
			SLAMS	PM_{10}	3	Continuous	MET One BAM 1020	POP EXP	NBH	NEEDED BY REGULATION		SU 02/03/2015
12-099-0022	Lamstein Lane	Lamstein Ln, Royal Palm Beach, FL 33411; 26.687606, -80.219619	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	NBH	NEEDED BY REGULATION	ADD	SU EXPECTED 7/1/2017; Relocation from 099-0009
			SLAMS	$PM_{2.5}$	1	Continuous	Thermo 5014i	POP EXP	NBH	NEEDED BY REGULATION	ADD	SU EXPECTED 7/1/2017; FEM, Relocation from 099-0009
			SLAMS	$PM_{2.5}$	2	Continuous	Thermo 5014i	POP EXP	NBH	NEEDED BY REGULATION	ADD	SU EXPECTED 7/1/2017; Collocated monitor; FEM; Relocation from 099-0009
12-099-0008	Belle Glade	38754 State Rd 80, Belle Glade, FL 33430; 26.724786, -80.666447	NON-REG	$PM_{2.5}$	3	Continuous	MET One BAM 1020	POP EXP	NBH	USED FOR AQI		SU 5/1/2009; FEM
12-099-2005	Delray Beach	225 S. Congress Ave, Delray Beach, FL 33445; 26.456944, -80.092778	SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo/R&P 2025	POP EXP	NBH	NEEDED BY REGULATION		SU 5/31/2001

METROPOLITAN STATISTICAL AREA: TAMPA - ST PETERSBURG - CLEARWATER (HILLSBOROUGH, PINELLAS, PASCO AND HERNANDO COUNTIES)												
Pasco County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-101-0005	San Antonio	30908 Warder Rd., San Antonio, FL 33576; 28.332225, -82.305643	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	URBAN	URBAN SPRAWL		SU 9/7/2000
12-101-2001	Holiday	3452 Darlington Rd., Holiday, FL 34691; 28.195574, -82.756264	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	URBAN SPRAWL		SU 1/17/1992
Hillsborough County												
12-057-0112	Apollo Beach	6506 Dolphin Cove Dr, Apollo Beach, FL 33572; 27.779712, -82.419835	SPM	SO_2	1	Continuous	Thermo 43i	SOURCE	MICRO	NEEDED BY REGULATION	ADD	SU 1/1/2016
			SPM	$PM_{2.5}$	1	Continuous	TEOM 1405	SOURCE	MICRO	NEEDED BY REGULATION	ADD	SU 1/1/2016
12-057-0113	Munro Street	1497 N. Munro Street, Tampa, FL 33607; 27.955550, -82.467140	SLAMS	CO	1	Continuous	Teledyne T300U	SOURCE	MICRO	NEEDED BY REGULATION		SU 2/1/2016; Relocation from 057-1111
			SLAMS	NO_2	1	Continuous	Teledyne T200UP	SOURCE	MICRO	NEEDED BY REGULATION		SU 2/1/2016; Near-road Site; Relocation from 057-1111
			SLAMS	$PM_{2.5}$	1	Continuous	Thermo 5014i	SOURCE	MICRO	NEEDED BY REGULATION		SU 2/1/2016; FEM; Relocation from 057-1111
			SLAMS	UFP	1	Continuous	Teledyne API 651	SOURCE	MICRO	NEEDED BY REGULATION		SU 2/1/2016
12-057-0081	E.G. Simmons Park	2401 19th Avenue Northwest, Ruskin, FL 33570; 27.740033, -82.465146	SLAMS	SO_2	1	Continuous	Thermo 43C	EXT DOWNWIND	URBAN	FOR EFFECTIVENESS OF NEW REGULATIONS	CLOSE	SU 1/1/1978; Coverage will be maintained by SO_2 monitor at Apollo Beach
			SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	USED FOR AQI		SU 6/14/1978
12-057-0083	Gardinier Park	6501 Riverview Dr., Riverview, FL 33578; 27.864192, -82.384259	SPM	PM_{10}	3	Continuous	TEOM 1405	SOURCE	MIDDLE	SOURCE MONITORING		SU 4/1/1995
12-057-0100	Kenly	2909 N 66th St, Tampa, FL 33619; 27.970328, -82.380050	SPM	Pb	1	Every 6th Day	Hi-Vol	SOURCE	MIDDLE	SOURCE MONITORING		SU 4/1/2010
12-057-0109	East Bay	9851 Highway 41 S., Gibsonton, FL 33534; 27.856692,-82.383482	SLAMS	SO_2	1	Continuous	Thermo 43C	SOURCE	NBH	SOURCE MONITORING		SU 11/13/1996
12-057-1035	Davis Island (Coast Guard Station)	155 Columbia Dr., Tampa, FL 33606; 27.928356, -82.454539	SLAMS	SO_2	1	Continuous	Thermo 43i	POP EXP	NBH	FOR EFFECTIVENESS OF NEW REGULATIONS		SU 1/1/1974
			SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	USED FOR AQI		SU 1/1/1973
			SLAMS	PM_{10}	1	Continuous	TEOM 1405	POP EXP	NBH	NEEDED BY REGULATION/USED FOR AQI		SU 12/1/1985
12-057-1065	USMC Reserve Center	5121 Gandy Blvd, Tampa, FL 33611; 27.892523,-82.538429	SLAMS	NO_2	1	Continuous	Teledyne T200	HI CONC	NBH	COMM-WIDE MONITORING	CLOSE	SU 4/1/1990; SD EXPECTED 7/1/2017
			SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	NEEDED BY REGULATION		SU 9/1/1989
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	HI CONC	NBH	USED FOR AQI		SU 1/1/2004
12-057-1066	Gulf Coast Lead	1700 N. 66th St., Tampa, FL 33629; 27.960578, -82.382315	SLAMS	Pb	1	Every 6th Day	ANDERSEN 2000	SOURCE	MIDDLE	SOURCE MONITORING		SU 1/1/2009
			SLAMS	Pb	2	Every 12th Day	ANDERSEN 2000	SOURCE	MIDDLE	SOURCE MONITORING		SU 1/1/2009
12-057-1073	Patent Scaffolding	6811 E. 14TthAvenue, Tampa, FL 33619; 27.96483,-82.37921	SPM	Pb	1	Every 6th Day	TISCH HI-VOL	SOURCE	MIDDLE	SOURCE MONITORING		SU 1/1/2009

12-057-3002	Sydney (NCore Site)	1167 N. Dover Rd., Dover, FL 33527; 27.965650, -82.230400	SLAMS	CO	2	Continuous	Thermo 48i-TLE	POP EXP	URBAN	NEEDED BY REGULATION		SU 10/1/2005; Trace level; MET
			SLAMS	SO_2	1	Continuous	Thermo 43i-TLE	POP EXP	URBAN	NEEDED BY REGULATION		SU 1/1/2004; Trace Level
			SLAMS	NO_Y	1	Continuous	Thermo 42i-Y	POP EXP	URBAN	NEEDED BY REGULATION		SU 1/1/2004
			SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	URBAN	NEEDED BY REGULATION		SU 1/1/2004
			SLAMS	PM_{10}	1	Every 6th Day	GMW HI VOL	POP EXP	URBAN	NEEDED BY REGULATION		SU 1/1/2004
			SLAMS	PM_{10}	2	Every 12th Day	GMW HI VOL	POP EXP	URBAN	NEEDED BY REGULATION		SU 1/1/2004; Collocated monitor
			SLAMS	Pb-PM_{10}	1	Every 6th Day	Thermo/R&P 2025 PM10	POP EXP	URBAN	NEEDED BY REGULATION	CLOSE	SU 1/1/2012; SD EXPECTED 7/1/2017 - Pending Waiver Approval
			SLAMS	$PM_{2.5}$	1	Daily	Thermo/R&P 2025i	POP EXP	URBAN	NEEDED BY REGULATION		SU 1/1/2004
			SLAMS	$PM_{2.5}$	2	Every 6th Day	Thermo/R&P 2025	POP EXP	URBAN	QA COLLOCATION		SU 1/26/2010; Collocated monitor
			SLAMS	$PM_{2.5}$	3	Continuous	Thermo 5014i	POP EXP	URBAN	USED FOR AQI		SU 2/14/2014; FEM
			SLAMS	PMCoarse	1	Daily	Thermo/R&P 2025i	POP EXP	URBAN	NEEDED BY REGULATION		SU 1/1/2004
			STN	EC/OC		Every 3rd Day	URG 3000N	POP EXP	URBAN	BASELINE MONITORING		SU 1/1/2007
			STN	SPEC. $PM_{2.5}$		Every 3rd Day	METONE SASS	POP EXP	URBAN	TRENDS MONITORING		SU 1/1/2004
			NATTS	Toxics				POP EXP	URBAN	NEEDED BY REGULATION		SU 1/1/2004

Pinellas County

AQS #	SITE NAME	ADDRESS/UTM	TYPE	POLLUTANT	POC	OPERATING SCHEDULE	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	STATEMENT OF PURPOSE	MODIFICATIONS	COMMENTS
12-103-0004	St. Petersburg College	2435 Sharkey Rd., Clearwater, FL 33765; 27.946688, -82.731767	SLAMS	Ozone	1	Continuous	Teledyne 400E	HI CONC	URBAN	NEEDED BY REGULATION		SU 7/1/1978
12-103-0012	Woodlawn	1313 19th St. N., St. Petersburg, FL 33713; 27.784749, -82.659265	SLAMS	PM_{10}	1	Every 6th Day	ANDERSEN 1200	HI CONC	NBH	TRENDS MONITORING		SU 4/1/1992
12-103-0018	Azalea Park	7200-22 Ave N., St. Petersburg, FL 33701; 27.785866, -82.739875	SLAMS	NO_2	1	Continuous	Thermo 42i	HI CONC/ POP EXP	NBH	COMM-WIDE MONITORING	REDESIGNATION	SU 1/1/1978;
			SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	USED FOR AQI		SU 4/6/1978
			SLAMS	PM_{10}	1	Every 6th Day	ANDERSEN 1200	POP EXP	NBH	NEEDED BY REGULATION	CLOSE	SU 4/1/1992
			SLAMS	$PM_{2.5}$	1	Daily	Thermo/R&P 2025	POP EXP	NBH	NEEDED BY REGULATION		SU 1/1/1999
			SLAMS	$PM_{2.5}$	2	Every 12th Day	Thermo/R&P 2025	POP EXP	NBH	QA COLLOCATION	CLOSE	SU 1/1/1999; Collocated monitor; SD EXPECTED 7/1/2017
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	POP EXP	NBH	USED FOR AQI		SU 5/1/2001
			NON-REG	Toxics		Every 6th Day		POP EXP	NBH	BASELINE MONITORING		SU 1/1/2001

12-103-0023	Derby Lane	10100 San Martin Rd., St. Petersburg, FL 33702; 27.863635, -82.623153	SLAMS	SO_2	1	Continuous	Thermo 43C	POP EXP	NBH	TRENDS MONITORING		SU 1/14/1979
12-103-0026	Skyview	8601 60th Street N., Pinellas Park, FL 33702; 27.850041, -82.714590	NATTS	BC	1	Continuous	Teledyne API 633	POP EXP	NBH	BASELINE MONITORING		SU 5/20/2016
			NATTS	Toxics		Every 6th Day		POP EXP	NBH	BASELINE MONITORING		SU 05/20/2016
12-103-0027	Sawgrass Lake Park	6853 25th Street N., St. Petersburg, FL 33702; 27.834409, -82.665251	SLAMS	CO	1	Continuous	Teledyne T300U	SOURCE	MICRO	SUPPORT NEAR-ROAD	ADD	SU 5/20/2016
			SLAMS	NO_2	1	Continuous	Teledyne T500U	SOURCE	MICRO	NEEDED BY REGULATION	ADD	SU 05/20/2016; Near-road Site
			SPM	BC	1	Continuous	Teledyne API 633	SOURCE	MICRO	SUPPORT NEAR-ROAD	ADD	SU 05/20/2016
12-103-1009	Sandy Lane	1360 Sandy Lane; Clearwater, FL 33755; 27.986283, -82.782150	SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo/R&P 2025	POP EXP	NBH	NEEDED BY REGULATION		SU 9/12/2003
12-103-2008	Gateway	13280 34th ST. N., St. Petersburg, FL 33716; 27.892801, -82.680378	SLAMS	CO	1	Continuous	Teledyne T300	HI CONC	MICRO	TRENDS MONITORING		SU 4/1/1993
12-103-3004	County Motorpool	1301 Ulmerton Rd., Largo, FL 33771; 27.895856, -82.774546	SLAMS	PM_{10}	1	Every 6th Day	GWC 1200	HI CONC	MIDDLE	TRENDS MONITORING		SU 7/31/1988
			SLAMS	PM_{10}	2	Every 12th Day	GWC 1200	HI CONC	MIDDLE	TRENDS MONITORING		SU 12/5/1988; Collocated monitor
12-103-5002	John Chesnut Sr. Park - East Lake	2200 East Lake Rd., Palm Harbor, FL 34685; 28.090299, -82.700707	SLAMS	Ozone	1	Continuous	Teledyne 400E	POP EXP	URBAN	USED FOR AQI		SU 1/1/77
			SLAMS	PM_{10}	1	Every 6th Day	ANDERSEN 1200	POP EXP	NBH	TRENDS MONITORING	CLOSE	SU 11/1/1988
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	POP EXP	NBH	USED FOR AQI		SU 9/5/2007
12-103-5003	Oakwood	40671 US 19 N., Tarpon Springs, FL 34689; 28.141667, -82.739722	SLAMS	SO_2	1	Continuous	Thermo 43C	SOURCE	NBH	TRENDS MONITORING		SU 9/18/1998

METROPOLITAN STATISTICAL AREA: JACKSONVILLE (BAKER, CLAY, DUVAL, NASSAU AND ST. JOHNS COUNTIES)												
Baker County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-003-0002	Osceola National Forest - Olustee Ranger Station	Hwy 90, Olustee, Forest Service Office, Sanderson, FL 32087; 30.201111, -82.441111	SPM	Ozone	1	Continuous	Thermo 49i	POP EXP/ GEN BKGD	URBAN	REGIONAL BACKGROUND		SU 1/1/1996
Duval County												
12-031-0032	Kooker Park	2900 Bennett St., Jacksonville, FL 32206; 30.356339, -81.635396	SLAMS	SO_2	1	Continuous	Thermo 43i	HI CONC	NBH	TRENDS MONITORING		SU 1/1/1974
			SLAMS	NO_2	2	Continuous	Thermo 42i	HI CONC	NBH	COMM-WIDE MONITORING		SU 1/6/1975
			SLAMS	PM_{10}	1	Continuous	TEOM 1405	HI CONC	NBH	NEEDED BY REGULATION		SU 2/1/2008
			SPM	$PM_{2.5}$	1	Daily	Thermo/R&P 2025	POP EXP	NBH	COMM RESPONSE		SU 7/15/2009
12-031-0077	Sheffield Elementary	13333 Lanier Rd., Jacksonville, FL 32226; 30.477725, -81.587339	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	NEEDED BY REGULATION		SU 1/1/1979
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	POP EXP	NBH	USED FOR AQI		SU 9/1/2008
12-031-0080	Southside Playground	1605 Minerva Ave., Jacksonville, FL 32207; 30.309119, -81.652341	SLAMS	CO	1	Continuous	Thermo 48i	HI CONC	MIDDLE	TRENDS MONITORING	CONVERT TO SPM	SU 10/18/1979
			SLAMS	SO_2	1	Continuous	Thermo 43i	HI CONC	NBH	SOURCE MONITORING		SU 1/1/1979
12-031-0081	Cedar Bay STP	1080 Cedar Bay Rd., Jacksonville, FL 32218; 30.422448, -81.620951	SLAMS	SO_2	1	Continuous	Thermo 43i	HI CONC	MIDDLE	SOURCE MONITORING		SU 1/1/1978
12-031-0084	Rosselle	2189 Rosselle St, Jacksonville, FL 32204; 30.320507, -81.687620	SLAMS	CO	1	Continuous	Thermo 48i	HI CONC	MIDDLE	TRENDS MONITORING		SU 1/1/1980
			SLAMS	PM_{10}	3	Continuous	TEOM 1405	HI CONC	MIDDLE	NEEDED BY REGULATION		SU 2/11/2008
12-031-0097	Fort Caroline Road	6241 Fort Caroline Rd., Jacksonville, FL 32277; 30.367461, -81.593983	SLAMS	SO_2	1	Continuous	Thermo 43i	POP EXP	NBH	TRENDS MONITORING		SU 9/7/1991
12-031-0098	Mandarin Rd Site	14932 Mandarin Rd., Jacksonville, FL 32223; 30.135797, -81.633981	SLAMS	$PM_{2.5}$	1	Daily	Thermo/R&P 2025	POP EXP	NBH	NEEDED BY REGULATION		SU 6/1/1999
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	POP EXP	NBH	NEEDED BY REGULATION		SU 1/1/2004
12-031-0099	Sunny Acres	9429 Merrill Rd., Jacksonville, FL 32225; 30.354722, -81.547778	SLAMS	$PM_{2.5}$	1	Daily	Thermo/R&P 2025	POP EXP	NBH	NEEDED BY REGULATION		SU 6/1/1999
			SLAMS	$PM_{2.5}$	2	Every 12th Day	Thermo/R&P 2025	POP EXP	NBH	QA COLLOCATION		SU 6/1/1999; Collocated monitor
12-031-0100	Mayo Clinic	13600 William Davis Pkwy, Jacksonville, FL 32224; 30.260278, -81.453611	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	NBH	NEEDED BY REGULATION		SU 9/1/2002
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	POP EXP	URBAN	USED FOR AQI		SU 1/1/2004
12-031-0106	Cisco Drive	4770 Cisco Dr., Jacksonville, FL 32219; 30.378217, -81.840900	SPM	Ozone	1	Continuous	Thermo 49i	REGIONAL TRANSPORT	URBAN	USED FOR AQI		SU 9/28/2009
12-031-0107	Lee High School	1216 Day Ave, Jacksonville, FL 32205; 30.308535, -81.705577	SPM	CO	1	Continuous	Thermo 48i	POP EXP	NBH	TRENDS MONITORING	CLOSE	SU 5/3/2012; SD EXPECTED 7/1/2017
12-031-0108	Pepsi Place	5895 Pepsi Place, Jacksonville, FL 32319; 30.262778, -81.606833	SLAMS	CO	1	Continuous	Thermo 48i	SOURCE	MIDDLE	NEEDED BY REGULATION		SU 1/1/2014
			SLAMS	NO_2	1	Continuous	Thermo 42i	SOURCE	MIDDLE	NEEDED BY REGULATION		SU 1/1/2014; Near-road Site
			SLAMS	$PM_{2.5}$	3	Continuous	Thermo 5014i	HI CONC	MIDDLE	NEEDED BY REGULATION		SU 2/14/2014; FEM

Nassau County												
12-089-0005	FBHWWTP	1007 S 5th St, Fernandina Beach, FL 32304; 30.658552, -81.463168	SLAMS	SO_2	1	Continuous	Thermo 43i	HI CONC	NBH	NEEDED BY REGULATION		SU 1/1/1976
12-089-0010	Yulee	96160 Nassau Place, Yulee, FL 32097; 30.626950, -81.535807	SPM	$PM_{2.5}$	1	Continuous	TEOM 1405	POP EXP	NBH	REGIONAL BACKGROUND		SU 12/21/2012

METROPOLITAN STATISTICAL AREA: ORLANDO - KISSIMMEE (LAKE, ORANGE, OSCEOLA AND SEMINOLE COUNTIES)												
Lake County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-069-0002	Clermont	1901 Johns Lake Rd., Clermont, FL 34711; 28.523889, -81.723333	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	MONITORING EXT COUNTY OF LARGE MET STAT AREA		SU 6/1/2000
Orange County												
12-095-0009	I-4 Near Road	525 S. Division Ave, Orlando, FL 32805; 28.534930, -81.384247	SLAMS	CO	1	Continuous	Thermo 48i	SOURCE	MIDDLE	NEEDED BY REGULATION	TEMPORARY CLOSE	SU 7/1/2016
			SLAMS	NO_2	1	Continuous	Thermo 42i	SOURCE	MIDDLE	NEEDED BY REGULATION	TEMPORARY CLOSE	SU 7/1/2016; Near-road Site
			SLAMS	$PM_{2.5}$	3	Continuous	Thermo 5014i	SOURCE	MIDDLE	NEEDED BY REGULATION	TEMPORARY CLOSE	SU EXPECTED 2/1/2017; FEM
12-095-0008	Winegard Elementary School	7055 Winegard Rd., Orlando, FL 32809; 28.454450, -81.381181	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	NEEDED BY REGULATION		SU 9/1/1988
12-095-2002	Lake Isle Estates - Winter Park	213 S. Denning Ave, Winter Park, FL 32789; 28.596389, -81.362500	SLAMS	CO	1	Continuous	Thermo 48i	POP EXP	NBH	TRENDS MONITORING	CONVERT TO SPM	SU 3/23/1978
			SLAMS	SO_2	1	Continuous	Thermo 43i	HI CONC	NBH	FOR EFFECTIVENESS OF NEW REGULATIONS		SU 1/1/1976
			SLAMS	NO_2	1	Continuous	Thermo 42i	POP EXP	URBAN	COMM-WIDE MONITORING		SU 1/1/1981
			SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	NBH	NEEDED BY REGULATION		SU 1/1/1976
			SLAMS	PM_{10}	1	Continuous	Thermo 5014i	POP EXP	NBH	NEEDED BY REGULATION		SU 01/24/2015
			SLAMS	$PM_{2.5}$	1	Daily	Thermo 2025i	POP EXP	NBH	NEEDED BY REGULATION	CLOSE	SU 1/1/1999; SD 09/30/2016
			SLAMS	$PM_{2.5}$	2	Every 12th Day	Thermo 2025i	POP EXP	NBH	QA COLLOCATION	CLOSE	SU 1/1/1999; Collocated monitor; SD 09/30/2016
			SLAMS	$PM_{2.5}$	3	Continuous	Thermo 5014i	POP EXP	NBH	NEEDED BY REGULATION	ADD	SU 10/1/2016; FEM
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	POP EXP	NBH	USED FOR AQI	CLOSE	SU 6/1/2000; SD 09/21/2016
			NON-REG	Toxics		Every 6th Day		POP EXP	NBH	BASELINE MONITORING	CLOSE	SU 4/1/2003; SD 9/30/2016
Osceola County												
12-097-2002	Osceola Co. Fire Station - Four Corners	8706 W Irlo Bronson Memorial Hwy (SR 192), Kissimmee, FL 34747; 28.347509, -81.636464	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	URBAN SPRAWL		SU 9/1/1993
Seminole County												
12-117-1002	Seminole Community College	284-300 Broadmoor Rd., Lake Mary, FL 32773; 28.746111, -81.310556	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	MONITORING EXT COUNTY OF LARGE MET STAT AREA		SU 1/1/1980
			SLAMS	PM_{10}	3	Continuous	TEOM 1400AB	POP EXP	NBH	NEEDED BY REGULATION		SU 12/22/2000
			SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo/R&P 2025	POP EXP	NBH	MONITORING EXT COUNTY OF LARGE MET STAT AREA		SU 1/7/1999
			SLAMS	$PM_{2.5}$	2	Every 12th Day	Thermo/R&P 2025	POP EXP	URBAN	QA COLLOCATION	CLOSE	SU 1/7/1999; Collocated monitor; SD EXPECTED 7/1/2017

METROPOLITAN STATISTICAL AREA: SARASOTA - BRADENTON - VENICE (MANATEE AND SARASOTA COUNTIES)												
Manatee County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-081-3002	Port Manatee	1801 Piney Point Rd., Palmetto, FL 34221; 27.633089, -82.545930	SLAMS	Ozone	1	Continuous	2B Tech 202	HI CONC	NBH	NEEDED BY REGULATION		SU 4/1/1992; SD 5/31/2008; SU 6/10/2009
12-081-4012	GT Bray Park	5502 33rd Ave Drive W., Bradenton, FL 34209; 27.480873, -82.618709	SPM	Ozone	1	Continuous	2B Tech 202	POP EXP	NBH	USED FOR AQI		SU 2/1/1999; SD 5/31/2008; SU 6/10/2009
12-081-4013	39th Street Park	5511 39th St. East, Bradenton, FL 34203; 27.449763, -82.522041	SPM	Ozone	1	Continuous	2B Tech 202	POP EXP	NBH	USED FOR AQI		SU 1/1999; SD 3/31/2008; SU 1/20/2010
12-081-0028	Port Manatee DEP	1801 Piney Point Rd., Palmetto, FL 34221; 27.633089, -82.545930	SLAMS	SO_2	1	Continuous	Thermo 43i	SOURCE	NBH	NEEDED BY REGULATION		SU 11/5/2013
Sarasota County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-115-0013	Bee Ridge Park	4430 S. Lockwood Ridge Rd., Sarasota, FL 34231; 27.290556, -82.507222	SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo/R&P 2025	POP EXP/ HI CONC	NBH	NEEDED BY REGULATION		SU 1/6/1999
			SLAMS	$PM_{2.5}$	2	Every 12th Day	Thermo/R&P 2025	POP EXP	NBH	QA COLLOCATION	CLOSE	SU 1/3/1999; Collocated monitor; SD EXPECTED 7/1/2017
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	POP EXP	NBH	NEEDED BY REGULATION		SU 5/1/2008
12-115-1005	Lido Park	450 Micinley Dr., Sarasota, FL 34236; 27.307268, -82.570376	SLAMS	Ozone	1	Continuous	Teledyne 400E	HI CONC	URBAN	NEEDED BY REGULATION		SU 9/5/1989
12-115-1006	Paw Park	4570 17th St., Sarasota, FL 34235; 27.350278, -82.479722	SPM	NO_2	1	Continuous	Teledyne T200	POP EXP	NBH	ASSIST IN FORCASTING		SU 5/1/2000
			SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	USED FOR AQI		SU 10/1/1999
			SLAMS	PM_{10}	1	Continuous	TEOM 1400AB	POP EXP	NBH	NEEDED BY REGULATION		SU 9/19/2003; FEM
12-115-2002	Jackson Road	250 S. Jackson Rd., Venice, FL 34292; 27.089194, -82.362583	SPM	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	USED FOR AQI		SU 9/1/2003
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	POP EXP	NBH	TRENDS MONITORING		SU 4/1/2009
METROPOLITAN STATISTICAL AREA: CAPE CORAL - FORT MYERS (LEE COUNTY)												
Lee County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-071-0005	Winkler Pump Station	1403 Princeton St., Ft. Myers, FL 33901; 26.602016, -81.877908	SLAMS	PM_{10}	3	Continuous	TEOM 1400AB	POP EXP	NBH	NEEDED BY REGULATION		SU 2/22/2001
			SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo/R&P 2025	POP EXP/ HI CONC	NBH	NEEDED BY REGULATION		SU 1/1/1999
			SLAMS	$PM_{2.5}$	2	Every 12th Day	Thermo/R&P 2025	POP EXP	NBH	QA COLLOCATION	CLOSE	SU 1/21/1999; Collocated monitor; SD EXPECTED 7/1/2017
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	POP EXP	NBH	NEEDED BY REGULATION		SU 1/14/2009
12-071-2002	Rotary Park	5505 Rose Garden Rd., Cape Coral, FL 33914; 26.548212, -81.981523	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	USED FOR MAPPING		SU 5/7/2001
12-071-3002	Bay Oaks Park	2731 Oak Street, Ft. Myers Beach, FL 33931; 26.449247, -81.939256	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC/ POP EXP	URBAN	NEEDED BY REGULATION		SU 12/1/1995

METROPOLITAN STATISTICAL AREA: LAKELAND (POLK COUNTY)												
Polk County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-105-6005	Sikes Elementary School	2727 Shepard Rd., Lakeland, FL 33811; 27.939746, -82.000084	SLAMS	SO_2	1	Continuous	Thermo 43i	HI CONC	URBAN	NEEDED BY REGULATION		SU 9/16/2013
			SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	NEEDED BY REGULATION		SU 6/18/1992
12-105-6006	Baptist Childrens Home	1015 Sikes Blvd, Lakeland, FL 33815; 28.028889, -81.972222	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	NBH	NEEDED BY REGULATION		SU 6/17/1992
			SLAMS	PM_{10}	3	Continuous	TEOM 1400AB	POP EXP	NBH	NEEDED BY REGULATION		SU 10/23/2007
			SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo/R&P 2025	HI CONC	NBH	NEEDED BY REGULATION		SU 1/1/1999
			SLAMS	$PM_{2.5}$	2	Every 12th Day	Thermo/R&P 2025	POP EXP	NBH	QA COLLOCATION	CLOSE	SU 1/1/1999; Collocated monitor; SD EXPECTED 7/1/2017
			SLAMS	$PM_{2.5}$	3	Continuous	TEOM 1400AB	HI CONC	NBH	NEEDED BY REGULATION	CONVERT TO SPM	SU 8/30/2007

METROPOLITAN STATISTICAL AREA: DELTONA - DAYTONA BEACH - ORMOND BEACH (FLAGLER AND VOLUSIA COUNTIES)												
Flagler County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-035-0004	Flagler	208 Sawgrass Rd, Bunnell, FL 32110; 29.489083, -81.276833	SLAMS	Ozone	1	Continuous	Thermo 49i	MAX SO_2 CONC	NBH	USED FOR AQI/ASSIST IN FORECASTING		SU 8/25/2011
Volusia County												
12-127-2001	Port Orange	5200 Spruce Creek Rd., Port Orange, FL 32119; 29.109151, -80.993666	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	NEEDED BY REGULATION		SU 1/1/1992
12-127-5002	Daytona - Blind Services	1185-A Dunn Ave, Daytona Beach, FL 32114; 29.206667, -81.052500	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	NEEDED BY REGULATION		SU 1/1/1992
			SLAMS	PM_{10}	2	Continuous	TEOM 1400AB	POP EXP	NBH	NEEDED BY REGULATION		SU 6/26/1998
			SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo 2025i	HI CONC	URBAN	NEEDED BY REGULATION		SU 1/4/1999; SD 12/31/2007; SU 4/1/2009
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	HI CONC	NBH	NEEDED BY REGULATION		SU 12/20/2007
METROPOLITAN STATISTICAL AREA: PALM BAY - MELBOURNE - TITUSVILLE (BREVARD COUNTY)												
Brevard County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-009-0007	Melbourne	400 West Florida Avenue, Melbourne, FL 32901; 28.053611, -80.628611	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	NEEDED BY REGULATION		SU 3/1/2000
			SLAMS	PM_{10}	3	Continuous	TEOM 1400AB	POP EXP	NBH	NEEDED BY REGULATION		SU 5/11/2012
			SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo/R&P 2025	HI CONC	NBH	NEEDED BY REGULATION		SU 3/1/2000
			SLAMS	$PM_{2.5}$	3	Continuous	TEOM 1400AB	POP EXP	NBH	NEEDED BY REGULATION	CONVERT TO SPM	SU 10/25/2007
12-009-4001	Cocoa Beach	400 S. 4th St., Cocoa Beach, FL 32931; 28.310841, -80.615330	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	NBH	NEEDED BY REGULATION		SU 9/18/1988
METROPOLITAN STATISTICAL AREA: PENSACOLA - FERRY PASS - BRENT (ESCAMBIA AND SANTA ROSA COUNTIES)												
Escambia County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-033-0004	Ellyson Industrial Park	Ellyson Industrial Park at Copter Rd., Pensacola, FL 32514; 30.525367, -87.203550	SLAMS	SO_2	1	Continuous	Thermo 43i	POP EXP	NBH	FOR EFFECTIVENESS OF NEW REGULATIONS		SU 1/1/1976
			SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	NEEDED BY REGULATION		SU 1/1/1975
			SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo 2025i	HI CONC	NBH	TRANSPORT		SU 1/1/1999
			SLAMS	$PM_{2.5}$	2	Every 12th Day	Thermo 2025i	HI CONC	NBH	QA COLLOCATION		SU 1/3/1999; Collocated monitor
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	HI CONC	NBH	NEEDED BY REGULATION		SU 2/1998
12-033-0018	Pensacola NAS	21 Cunningham St., Pensacola, FL 32508; 30.368050, -87.270967	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	NBH	NEEDED BY REGULATION		SU 10/21/1980
Santa Rosa County												
12-113-0015	Woodlawn Beach Middle School	1500 Woodlawn Way, Gulf Breeze, FL 32563; 30.394133, -87.008033	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	USE FOR AQI		SU 3/9/2005
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	POP EXP	NBH	USE FOR AQI		SU 2/19/2008

METROPOLITAN STATISTICAL AREA: PORT ST. LUCIE - FT PIERCE (MARTIN AND ST LUCIE COUNTY)												
Martin County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-085-0007	Stuart	950 SE Monterey Rd., Stuart, FL 34994; 27.172458, -80.240689	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	NEEDED BY REGULATION		SU 6/11/2010
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	POP EXP	NBH	USED FOR AQI		SU 6/11/2010
St. Lucie County												
12-111-0013	Savannas	1420 E Midway Rd., Ft. Pierce, FL 34981; 27.389079, -80.311033	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	USED FOR AQI		SU 2/24/2011
METROPOLITAN AREA: TALLAHASSEE (LEON, JEFFERSON AND WAKULLA COUNTIES)												
Leon County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-073-0012	Tallahassee Community College	110 Century Park Circle W., Tallahassee, FL 32304; 30.439722, -84.346389	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	NBH	NEEDED BY REGULATION		SU 6/13/1998; MET
			SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo/R&P 2025	POP EXP	NBH	NEEDED BY REGULATION		SU 1/1/1999
			SLAMS	$PM_{2.5}$	2	Every 12th Day	Thermo 2025i	POP EXP	NBH	QA COLLOCATION		SU 10/1/2004, Collocated monitor
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	POP EXP	NBH	NEEDED BY REGULATION		SU 7/14/2003
			STN	EC/OC		Every 6th Day	URG 3000N	POP EXP	URBAN	BASELINE MONITORING		SU 10/4/2009
			STN	SPEC. $PM_{2.5}$		Every 6th Day	METONE SASS	POP EXP	URBAN	TRENDS MONITORING		SU 10/4/2009
12-073-0013	Miccosukee Greenway	5600 Miccosukee Rd., Tallahassee, FL 32308; 30.484444, -84.199444	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	NBH	USED FOR AQI	CLOSE	SU 9/15/2000; SD 2/12/2016
Wakulla County												
12-129-0001	St. Marks Wildlife Refuge (NCore Site)	County Rd. 59, St. Marks, FL 32355; 30.092500, -84.161111	SLAMS	CO	1	Continuous	Teledyne T300U	BKGD	URBAN	RURAL NCORE		SU 4/27/2015; Trace Level; MET
			SLAMS	SO_2	3	Continuous	Teledyne T100U	BKGD	URBAN	RURAL NCORE		SU 1/1/2015; Trace Level
			SLAMS	NOy	1	Continuous	Teledyne T200U	BKGD	URBAN	RURAL NCORE		SU 1/1/2015
			SLAMS	Ozone	1	Continuous	Thermo 49i	REGIONAL TRANSPORT	URBAN	NEEDED BY REGULATION		SU 4/13/2001
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	BKGD	URBAN	RURAL NCORE		SU 1/1/2015

METROPOLITAN STATISTICAL AREA: NAPLES - MARCO ISLAND (COLLIER COUNTY)												
Collier County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-021-0004	Laurel Oak Elementary	7800 Immokalee Rd., Naples, FL 34119; 26.270083, -81.710959	SPM	Ozone	1	Continuous	Thermo 49i	POP EXP	URBAN	MONITORING GROWTH IMPACT		SU 9/26/2001
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	POP EXP	URBAN	MONITORING GROWTH IMPACT		SU 3/2/2005
METROPOLITAN STATISTICAL AREA: OCALA (MARION COUNTY)												
Marion County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-083-0003	Ocala - YMCA	3200 SE 17th St., Ocala, FL 34471; 29.170533, -82.100646	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC/ UPWIND BKGD	NBH	MONITORING GROWTH IMPACT		SU 5/27/1998
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	POP EXP	NBH	USED FOR AQI		SU 11/27/2007
12-083-0004	Marion County Sheriff	692 NW 30th Ave, Ocala, FL 34475; 29.192754, -82.173149	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	NEEDED BY REGULATION		SU 11/8/2000
METROPOLITAN STATISTICAL AREA: GAINESVILLE (ALACHUA AND GILCHRIST COUNTY)												
Alachua County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-001-0023	Millhopper	5400 NW 43rd St., Gainesville, FL 32653; 29.706111, -82.387778	SLAMS	$PM_{2.5}$	1	Every 3rd Day	Thermo/R&P 2025	POP EXP	NBH	TRENDS MONITORING		SU 1/1/1999
			SLAMS	$PM_{2.5}$	2	Every 12th Day	Thermo/R&P 2025	POP EXP	NBH	COLLOCATED		SU 1/6/1999; Collocated monitor
12-001-3011	Paynes Prairie	918 SE 119th Ave., Micanopy, FL 32667; 29.339698, -82.159648	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	NEEDED BY REGULATION	CLOSE/RELOCATION	SU 8/27/1997; SD 12/13/2016
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	HI CONC/ POP EXP	NBH	USED FOR AQI	CLOSE/RELOCATION	SU 7/3/2009; SD 12/13/2016
12-001-3012	Paynes Prairie Farm	9300 CR 234, Micanopy, FL 32667; 29.56615, -82.266066	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	URBAN	NEEDED BY REGULATION	ADD/RELOCATION	SU 12/17/2016; Formerly located at 001-3011
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1400AB	HI CONC/ POP EXP	NBH	USED FOR AQI	ADD/RELOCATION	SU 12/17/2016; Formerly located at 001-3011

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

Okaloosa County

AQS #	SITE NAME	ADDRESS/UTM	TYPE	POLLUTANT	POC	OPERATING SCHEDULE	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	STATEMENT OF PURPOSE	MODIFICATIONS	COMMENTS
12-091-0002	Fort Walton Beach	720 Lovejoy Rd., Ft. Walton Beach, FL 32548; 30.426533, -86.666217	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	URBAN	NEEDED BY REGULATION		SU 12/4/2008
			SLAMS	PM_{10}	3	Continuous	TEOM 1405	POP EXP	URBAN	USED FOR AQI		SU 1/30/2013

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

Bay County

AQS #	SITE NAME	ADDRESS/UTM	TYPE	POLLUTANT	POC	OPERATING SCHEDULE	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	STATEMENT OF PURPOSE	MODIFICATIONS	COMMENTS
12-005-0006	St. Andrews State Park	4607 State Park Lane, Panama City, FL 32408; 30.130433, -85.731517	SLAMS	Ozone	1	Continuous	Thermo 49i	HI CONC	NBH	NEEDED BY REGULATION		SU 7/13/2000
			SPM	$PM_{2.5}$	1	Continuous	TEOM 1405	POP EXP	NBH	USED FOR AQI		SU 2/27/2009

METROPOLITAN STATISTICAL AREA - SEBRING (HIGHLANDS COUNTY)

Highlands County

AQS #	SITE NAME	ADDRESS/UTM	TYPE	POLLUTANT	POC	OPERATING SCHEDULE	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	STATEMENT OF PURPOSE	MODIFICATIONS	COMMENTS
12-055-0003	Archbold Biological Station	123 Main Dr., Venus, FL 33960; 27.189215, -81.340350	SPM	Ozone	1	Continuous	Thermo 49i	HI CONC/ GEN BKGD	REGIONAL	REGIONAL BACKGROUND		SU 6/14/2001

MICROPOLITAN STATISTICAL AREA: PALATKA (PUTNAM COUNTY)

Putnam County

AQS #	SITE NAME	ADDRESS/UTM	TYPE	POLLUTANT	POC	OPERATING SCHEDULE	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	STATEMENT OF PURPOSE	MODIFICATIONS	COMMENTS
12-107-1008	Palatka Barge Port	188 Comfort Rd., Palatka, FL 32177; 29.687748, -81.656509	SLAMS	SO_2	1	Continuous	Thermo 43i	SOURCE	NBH	SOURCE MONITORING		SU 8/15/1991
			SLAMS	PM_{10}	3	Continuous	TEOM 1400AB	POP EXP/ SOURCE	NBH	SOURCE MONITORING		SU 12/13/2002

MICROPOLITAN STATISTICAL AREA: LAKE CITY (COLUMBIA COUNTY)

Columbia County

AQS #	SITE NAME	ADDRESS/UTM	TYPE	POLLUTANT	POC	OPERATING SCHEDULE	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	STATEMENT OF PURPOSE	MODIFICATIONS	COMMENTS
12-023-0002	Lake City - Veterans Domicile	751 SE Sycamore Terrace, Lake City, FL 32025; 30.178056, -82.619167	SLAMS	Ozone	1	Continuous	Thermo 49i	POP EXP	NBH	MONITOR IMPACT OF HIGH TRAFFIC		SU 11/1/2000
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	POP EXP	NBH	RURAL MONITORING		SU 5/17/2007

MICROPOLITAN STATISTICAL AREA: HOMOSASSA SPRINGS (CITRUS COUNTY)

Citrus County

AQS #	SITE NAME	ADDRESS/UTM	TYPE	POLLUTANT	POC	OPERATING SCHEDULE	SAMPLER	MONITORING OBJECTIVE	SPATIAL SCALE	STATEMENT OF PURPOSE	MODIFICATIONS	COMMENTS
12-017-0006	Crystal River Preserve	13450 W. Power Line Rd., Crystal River, FL 34428; 28.958644, -82.642965	SLAMS	SO_2	1	Continuous	Thermo 43i	SOURCE	NBH	NEEDED BY REGULATION		SU 12/13/2013
			SPM	$PM_{2.5}$	1	Continuous	TEOM 1405	POP EXP	NBH	RURAL MONITORING		SU 12/7/2015

NOT IN A METROPOLITAN STATISTICAL AREA												
Holmes County												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-059-0004	Bonifay Tri-County Airport	1976 Tri County Airport Rd., Bonifay, FL 32425; 30.848611, -85.603889	SPM	Ozone	1	Continuous	Thermo 49i	POP EXP	REGIONAL	REGIONAL BACKGROUND		SU 9/1/1996
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	POP EXP	NBH	REGIONAL BACKGROUND		SU 6/14/2007
Hamilton County												
12-047-0015	White Springs	15843 78th St., White Springs, FL 32096; 30.411339, -82.783484	SLAMS	SO_2	1	Continuous	Thermo 43i	SOURCE	MIDDLE	SOURCE MONITORING		SU 9/18/1982
			SPM	$PM_{2.5}$	3	Continuous	TEOM 1405	SOURCE	NBH	RURAL MONITORING		SU 5/17/2007
IMPROVE NETWORK												
AQS #	**SITE NAME**	**ADDRESS/UTM**	**TYPE**	**POLLUTANT**	**POC**	**OPERATING SCHEDULE**	**SAMPLER**	**MONITORING OBJECTIVE**	**SPATIAL SCALE**	**STATEMENT OF PURPOSE**	**MODIFICATIONS**	**COMMENTS**
12-129-0001	St. Marks Wildlife Refuge	County Rd. 59, St. Marks, FL 32355; 30.092500, -84.161111	SPM	$PM_{2.5}$		Every 3rd Day	IMPROVE	BKGD	URBAN	NEEDED BY REGULATION		SU 2000
12-017-9000	Chassahowitzka National Wildlife Refuge	S Timber Pines Ave., Homosassa, FL 34448; 28.7486, -82.5551	SPM	$PM_{2.5}$		Every 3rd Day	IMPROVE	TRANSPORT	URBAN	NEEDED BY REGULATION		SU 1993
12-086-0030	Everglades National Park	Everglades National Park, FL	SPM	$PM_{2.5}$		Every 3rd Day	IMPROVE	BKGD	URBAN	NEEDED BY REGULATION		SU 1988

List of Abbreviations:

AQI	Air Quality Index
BKGD	Background
CO	Carbon Monoxide
CSN	Chemical Speciation Network
EC/OC	Elemental Carbon/Organic Carbon
FRM	Federal Reference Method
GEN BKGD	General Background
HI CONC	High Concentration
MET	Implies that wind speed and wind direction instruments are on site
NAMS	National Air Monitoring Stations
NBH	Neighborhood
NCORE	National Core
NO_2	Nitrogen Dioxide
NON-REG	Non-regulatory Monitoring
POP EXP	Population Exposure
$PM_{2.5}$	Particulate matter with aerodynamic diameter of 2.5 micro meter
PM_{10}	Particulate matter with aerodynamic diameter of 10 micro meter
SLAMS	State and Local Air Monitoring Stations
SO_2	Sulfur Dioxide
SPM	Special Purpose Monitors
SPEC. $PM_{2.5}$	Supplemental $PM_{2.5}$ Speciation
SD	Shut Down
SU	Set Up
STN	Speciation Trends Network
UFP	Ultra Fine Particle
VOC	Volatile Organic Compound

Florida Department of Environmental Protection

2016-2017
Annual Air Monitoring
Network Plan

APPENDIX D

AMBIENT AIR MONITORING INVENTORY LISTS

Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
www.dep.state.fl.us

Broward County									
Site	**AQS Site #**	**Make**	**Model**	**Parameter**	**Serial Number**	**Broward County Asset Tag**	**FDEP Asset Tag**	**External Agency**	**Condition**
1	12-011-2003	ESC	8832	Data Logger	2372				Good
1	12-011-2003	Hampshire Controls	140	Electronic Temperature Sensor	111215017				Good
1	12-011-2003	Thermo	49i-PS	O3 Calibrator	1113748258	310341			Good
1	12-011-2003	Thermo	2025	PM2.5 Manual Sampler	22735	310232			Good
1	12-011-2003	Thermo	2025	PM2.5 Manual Sampler	22704				Not Used
1	12-011-2003	Thermo	49i	O3 Analyzer	CM07340004	296245			Good
1	12-011-2003	RM Young	MWM-AQ-05305	Wind Speed/Wind Direction	71201				Good
25	12-011-8002	ESC	8832	Data Logger	A4205K	311500			Good
25	12-011-8002	Hampshire Controls	140	Electronic Temperature Sensor	110213730				Good
25	12-011-8002	Thermo	111	Zero Air Generator	111-669174-354	258827			Good
25	12-011-8002	Thermo	146i	Multigas Calibrator	1107747755	310233			Good
25	12-011-8002	Thermo	42i	NO2/NO/NOx	CM08260030	301627			Good
25	12-011-8002	Thermo	49i	O3 Analyzer	CM08320015			U. of Mich. A555472	Good
25	12-011-8002	Thermo	49i-PS	O3 Calibrator	1150770008				Good
28	12-011-0010	ESC	8832	Data Logger	A4296K				Good

28	12-011-0010	Hampshire Controls	140	Electronic Temperature Sensor	111215012				Good
28	12-011-0010	Met One	BAM-1020	PM10 Continuous Monitor	P16733				Good
28	12-011-0010	Teledyne	T100	SO2 Analyzer	114				Good
28	12-011-0010	Teledyne	T300	CO Analyzer	720				Good
28	12-011-0010	Thermo	111	Zero Air Generator	0619317388				Good
28	12-011-0010	Thermo	146i	Multigas Calibrator	1107747756	310234			Good
30	12-011-5005	Thermo	2025i	PM2.5 Manual Sampler	20760				Good
30	12-011-5005	Tisch	TE-6070V	PM10 Manual Sampler	P7794 / 1782			SAR 40049993	Good
33	12-011-5005	ESC	8832	Data Logger	A3855K				Good
33	12-011-5005	R&P	TEOM 1400A	PM2.5 Continous Monitor	140AB267250705				Good
33	12-011-5005	Thermo	49i	O3 Analyzer	CM07340001				Good
33	12-011-5005	Thermo	49i-PS	O3 Calibrator	0727625034				Good
33	12-011-5005	Hampshire Controls	140	Electronic Temperature Sensor	111215016				Good
33	12-011-5005	RM Young	MWM-AQ-05305	Wind Speed/Wind Direction	146400				Good
33	12-011-5005	RM Young	41382VC	Wind Speed/Wind Direction	2047				Good
34: NCORE	12-011-0034	ESC	8832	Data Logger	A3856K	308796			Good
34: NCORE	12-011-0034	Hampshire Controls	140	Electronic Temperature Sensor	1029080				Good
34: NCORE	12-011-0034	Met One	SuperSASS	PM2.5 Speciation Montior	N9188				Good

34: NCORE	12-011-0034	Teledyne	701H	Zero Air Generator	536	310908			Good
34: NCORE	12-011-0034	Teledyne	T700U	Multigas Calibrator	85				Good
34: NCORE	12-011-0034	Thermo	2025i	PM2.5 Manual Sampler	020262				Good
34: NCORE	12-011-0034	Thermo	2025i	PM2.5 Manual Sampler	020450				Good
34: NCORE	12-011-0034	Thermo	2025i	Low Flow PM10 Manual Sampler	202451				Good
34: NCORE	12-011-0034	Thermo	42iY	NO/NO2/NOy Analyzer	1160570008				NEW
34: NCORE	12-011-0034	Thermo	43i-TLE	SO2 Trace Analyzer	1428862875				Good
34: NCORE	12-011-0034	Thermo	48C-TLE	CO Trace Analyzer	05150711728	285684			Good
34: NCORE	12-011-0034	Thermo	49i	O3 Analyzer	1113748257	310340			Good
34: NCORE	12-011-0034	Thermo	49i-PS	O3 Calibrator	0824931779	310341			Good
34: NCORE	12-011-0034	Thermo	111	Zero Air Generator	0619317387	291694			Good
34: NCORE	12-011-0034	Thermo	5014i	PM10 Continuous Monitor	CM16361010				Good
34: NCORE	12-011-0034	URG	3000N	Black Carbon Sampler	B0580				Good
34: NCORE	12-011-0034	Tisch	TE-6070V	PM10 - Manual Sampler	P8273 /2231				Good
34: NCORE	12-011-0034	Tisch	TE-6070V	PM10 - Manual Sampler	P7795 / 1783				Good
34: NCORE	12-011-0034	RM Young	81000	Ultrasonic Anemometer	3485				Good
35: Near Road	12-011-0035	ESC	8832	Data Logger	A4462K				Good
35: Near Road	12-011-0035	Hampshire Controls	140	Electronic Temperature Sensor	111215015				Good

35: Near Road	12-011-0035	Teledyne	633	Aethalometer	AE33-S01-00115				Good
35: Near Road	12-011-0035	Teledyne	701H	Zero Air Generator	569	311164			Good
35: Near Road	12-011-0035	Thermo	42i	NO2/NO/NOx	1163620012				Good
35: Near Road	12-011-0035	Teledyne	T200UP	NO2 Photolytic Analyzer	60				Good
35: Near Road	12-011-0035	Teledyne	T700U	Multigas Calibrator	57	310200			Good
35: Near Road	12-011-0035	Thermo	48i-TLE	CO Trace Analyzer	120475128				Good
35: Near Road	12-011-0035	Thermo	5014i	PM10 Continuous Monitor	CM14481011				Good
35: Near Road	12-011-0035	TSI	UFP 3031	Ultrafine Particle Counter	3301202404				Good
35: Near Road	12-011-0035	RM Young	81000	Ultrasonic Anemometer	1759			ARA (?)	Good
35: Near Road	12-011-0035	Vaisala	WXT536 6H1B1A4D2B1B	Weather Transmitter					Good
General Use		Cramer	636	Time	47	42928			Good
General Use		BGI	TetraCal	Flow Meter	000366				Good
General Use		BGI	TetraCal	Flow Meter	000784				Good
General Use		Engler	901	Time	701	42928			Good

General Use		Engler	901	Time	702	42928			Good
General Use		Dwyer	PM10 Ver/Cal	Volumetric Flow	2549	43089			Good
General Use		Dwyer	PM10 Audit	Volumetric Flow	2743	43089			Good
General Use		Tisch	TE-5012	Time	3389	42820			Good
General Use		Tisch	TE-5012	Time	3390	42781			Good
General Use		Tisch	TE-5012	Time	3391	42747			Good
General Use		Tisch	TE-5012	Time	3392	42820			Good
General Use		Tisch	TE-5012	Time	3393	42820			Good
General Use		Tisch	TE-5012	Time	3394	42820			Good
General Use		BGI	PM10	PM10 Orifice	3663			DER 14886	Good
General Use		ThermoFisher	NONE	NIST Temp	8161	AS NEEDED			Good
General Use		Alicat	Wisper - 100 sccm	Flow	105848	42990			Good
General Use		Omnitron	100	Temperature	490911	42908			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	1029005	43007			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	1029006	43011			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	1029080	43011			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	1088817	43011			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	1088834	43011			Good
General Use		Fluke	1551AEX	Temperature	1754003	42903			Good

General Use		Fluke	1551A	Temperature	2840059	43084			Good
General Use		Fluke	1551A	Temperature	2840067	42962			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	20014107	43007			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	20043756	43011			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	20044177	43007			Good
General Use		Fluke	233	Voltage	28330012	43373			Good
General Use		Fluke	233	Voltage	28330014	43084			Good
General Use		Fluke	233	Voltage	30670013	42977			Good
General Use		Fluke	77 / 80TK	Volt / Temp	42580048	42908			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	99068386	43011			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	99068386	43011			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	99068386	43011			Good
General Use		FisherScientific	Traceable	Max /Min Temperature	99068386	43011			Good
General Use		Control Company	Traceable	Max /Min Temperature	150129105	43011			Good
General Use		Control Company	Traceable	Max /Min Temperature	150129110	43007			Good
General Use		BIOS	DC LITE HiFlow	Flow	100934 (rev 1.08)	42833			Good
General Use		BIOS	DC LITE Hi-Flow	Flow Device	107935 (rev 1.11)	42867			Good
General Use		BIOS	DC LITE Hi-Flow	Flow	107936 (rev 1.11)	42867			Good
General Use		BIOS	Definer 220	Flow	115009 (rev C)	42976			Good

General Use		BIOS	Definer 220-L	Flow	115200 (rev C)	42836			Good
General Use		Fluke	115	Voltage	32910376WS	43084			Good
General Use		Fluke	115	Voltage	32910378WS	43084			Good
General Use		Fluke	115	Voltage	32910379WS	43085			Good
General Use		Cramer	636	Time	47A	42928			Good
General Use		BIOS	DC Lite Med-Hi	Flow	5922 (rev 1.08)	42833			Good
General Use		Fluke	77-III / 80TK	Voltage / Temp	77450476 / 17300011	43119			Good
General Use		Princo	NONE	Atm. Pressure	B-37548	43111			Good
General Use		Dwyer	Series 475 Mark III	Pressure	EM-06	43372			Good
General Use		Dwyer	Series 475 Mark III	Pressure	EM-08	43008			Good
General Use		Chinook	M - Streamline Pro	Flow Meter	M030509/T040616				Good
General Use		Chinook	M - Streamline Pro	Flow Meter	M080306/T080306	302771			Good
General Use		Met One	9099	SASS Temp Calibrator	M1951				Good
General Use		Dwyer	Series 475 Mark III	Pressure	MN-475-1A	42749			Good
General Use		Dwyer	Series 475 Mark III	Pressure	MN-475-1B	43113			Good
General Use		Dwyer	Series 475 Mark III	Pressure	MN-475-2A	42749			Good
General Use		Dwyer	Series 475 Mark III	Pressure	MN-475-2B	43089			Good
General Use		Dwyer	Series 475 Mark III	Pressure	MN-475-2D	43113			Good
General Use		Dwyer	Series 475 Mark III	Pressure	MN-475-3A	43007			Good

PM10 LAB		FisherScientific	14-649-84	Max /Min Temperature/RH	160213666				Good
PM10 LAB		FisherScientific	14-649-84	Max /Min Temperature/RH	160213676				Good
PM10 LAB		FisherScientific	14-649-84	Max /Min Temperature/RH	160213677				Good
PM10 LAB		Mettler Toledo	NONE	1g Mass Standard	B620493062				Good
PM10 LAB		Mettler Toledo	NONE	5g Mass Standard	B622549604				Good
PM10 LAB		Mettler Toledo	NONE	2g Mass Standard	B619436473				Good
PM10 LAB		Denver Instruments / Troemner	NONE	1 - 100 g Mass Standards	99-127818	42850			Good
PM10 LAB		Sartorius	A120S	Gravimetric	36120038	43021			Good
DAVIE LAB		Hampshire Controls	140	Electronic Temperature Sensor	111215014				Good
DAVIE LAB		ESC	8832	Data Logger	A4206K				Good
DAVIE LAB		ESC	8832	Data Logger	A4773K				Good
DAVIE LAB		ESC	8832	Data Logger	A1289				Good
DAVIE LAB		ESC	8832	Data Logger	A0603				Good
DAVIE LAB		Thermo	48i-TLE	CO Analyzer	824931783			Univ. of Michigan A55466	Fair
DAVIE LAB		Thermo	49i-PS	O3 Calibrator	0727625035	296246			Good
DAVIE LAB		R&P	TEOM 1400A	PM2.5 Continous Monitor	140AB241850207	274026			Fair
DAVIE LAB		Thermo	5014i	PM10 Continuous Monitor	CM14191003				Good
DAVIE LAB		Teledyne	T100	SO2 Analyzer	795		142312		Fair

DAVIE LAB		Thermo	49i	O3 Analyzer	CM09080044				TBD
1U		API	401	O3 Calibrator	97	239705			Fair
1U		API	401	O3 Calibrator	98	239706			Fair
1U		API	401	O3 Calibrator	96	239706			Fair
1U		Thermo	42C	NO2/NO/Noy	42CY-70622-366	251595			Fair
1U		Cerex	UV Sentry	Open Path Air Monitor	HR2B1742	291469			Fair
1U		Thermo	111	Zero Air Generator	111-66973-354	258828			Fair
1U		Thermo	146C	Multigas Calibrator	146C-78984-390	278947			Fair
1U		Thermo	146C	Multigas Calibrator	146C-78985-390	278948			Fair
1U		Thermo	146C	Multigas Calibrator	146C-78986-390	278949			Fair
1U		Thermo	43C	SO2 Analyzer	TE-43C-74811-377	273147			Fair
1U		Thermo	48C	CO Analyzer	32680149				Fair
1U		Thermo	48C	CO Analyzer	48C-0515711729				Fair
1U		Thermo	49C	O3 Analyzer	49CPS-7569-379				Fair
1U		Thermo	49C-PS	O3 Calibrator	49CPS-75269-379	273158			Fair
1U		Thermo	43C	SO2 Trace Analyzer	518112306	290406			Fair
1U		Thermo	49C	O3 Analyzer	49C-55284-303	239715	100153		Fair
1U		Thermo	49C	O3 Analyzer	49C-55284-303	239715	100153		Fair
8	12-011-1002	Met One	SASS	PM2.5 Speciation Monitor	Y5150				Not Used
Air Toxics		Agilent	5973	Mass Spectrometer	US10461778	278136			Good
Air Toxics		Agilent	00HP	Ion Gauge	US6017346				Good
Air Toxics		Agilent	5975C	Mass Spectrometer	US12513A13				Good
Air Toxics		Agilent	6890N	Gas Chromatograph	US10148058	278136			Good

Air Toxics		Agilent	7890A	Gas Chromatograph	CN12511029				Good
Air Toxics		Agilent	Micro E	Ion Gauge	G311B5440				Good
Air Toxics		Amtek	IPI Jofra	Vacuum/Pressure Gauge	9281096				Good
Air Toxics		Ashcroft	0-2500 mm Hg	Absolute Pressure Gauge	E294528				Good
Air Toxics		Edwards	E2M1.5	Vacuum Pump	46311013				Good
Air Toxics		Entech	3100A	Can Cleaning System	143	278138			Good
Air Toxics		Entech	7100A	Preconcentrator	238	278137			Good
Air Toxics		Entech	TM1000P	Sample Programmer	202				Good
Air Toxics		Entech	TM1000P	Sample Programmer	203				Good
Air Toxics		GilAir3	Sensidyne 010	Air Sampler	20120701006				Good
Air Toxics		GilAir3	Sensidyne 010	Air Sampler	20120701007				Good
Air Toxics		Markes	TD100	Thermal Desorber	GB00K10309				Good
Air Toxics		Tisch	TE-VFC+	Air Sampler	N/A				Good
Air Toxics		Vacuubrand	ME1	Vacuum Pump	35680102				Good
Air Toxics		Tisch	1-TE -6001	PM10 Manual Sampler	1782				Good
Air Toxics		AP Buck	Mini Buck	Flow Meter	A1210				Fair

City of Jacksonville					
AQS Site #	**Equipment**	**Acquisition Date**	**Serial #**	**Condition**	**Status**
12-031-0081	TE 43i	2006	0616717186	Good	Active
12-031-0081	ENV 6100	2010	4776	Good	Active
12-031-0081	ESC 8832	2004	A0538	Good	Active
12-031-0106	TE 49i	2015	1430863374	Good	Active
12-031-0106	TE 49i-PS	2015	1430863375	Good	Active
12-031-0106	ESC-8832	2004	A0547	Good	Active
12-031-0106	TE Model 111	2009	0907935555	Good	Active
12-031-0097	TE 43i	2015	1436363426	Good	Active
12-031-0097	ENV 6100	2008	4306	Good	Active
12-031-0097	ESC-8832	2004	A0542	Good	Active
12-031-0032	TE 42i	2010	0817630890	Good	Active
12-031-0032	ENV 6100	2008	5736	Good	Active
12-031-0032	ESC-8832	2004	A1943	Good	Active
12-031-0032	TE 43i	2012	1225154501	Good	Active
12-031-0032	TE 2025i	2014	20683	Good	Active
12-031-0032	TEOM 1405	2016	23583	Good	Active
12-031-0107	TE 48i	2015	1160600006	Good	Active
12-031-0107	ENV 6100	2009	4491	Good	Active
12-031-0107	ESC-8832	2004	A0539	Good	Active
12-031-0098	TE 2025i	2014	20691	Good	Active
12-031-0098	TEOM 1400AB	1905	24505	Good	Active
12-031-0098	ESC-8832	2004	A0543	Good	Active
12-031-0100	TE 49i	2009	CM09040077	Good	Active
12-031-0100	TE 49i-PS	2012	1225154500	Good	Active
12-031-0100	ESC-8832	2004	A1942	Good	Active
12-031-0100	TEOM 1405	2016	23602	Good	Active
12-031-0108	TE 42i	2014	1327059041	Good	Active
12-031-0108	ENV 6100	2014	6508	Good	Active

12-031-0108	ESC-8832	2014	A4688K	Good	Active
12-031-0108	TE 48i	2014	1308857434	Good	Active
12-031-0108	Teledyne 701H	2014	753	Good	Active
12-031-0108	TE 5014i	2014	CM13351001	Good	Active
12-031-0084	TE 48i	2014	1436363425	Good	Active
12-031-0084	ENV 6100	2007	3886	Good	Active
12-031-0084	ESC-8832	2004	A3936K	Good	Active
12-031-0084	TEOM 1405	2015	23082	Good	Active
12-031-0077	TE 49i	2009	CM09040078	Good	Active
12-031-0077	TE 49i-PS	2009	0908935367	Good	Active
12-031-0077	ESC-8832	2004	A0541	Good	Active
12-031-0077	TEOM 1405	2016	23582	Good	Active
12-031-0080	TE 43i	2005	0520811801	Good	Active
12-031-0080	ENV 6100	2007	3887	Good	Active
12-031-0080	ESC-8832	2004	A3937K	Good	Active
12-031-0080	TE 48C	Unknown	67479-356	Good	Active
12-031-0099	TE 2025i	2014	20689	Good	Active
12-031-0099	TE 2025i	2015	W20793	Good	Active
Shop	Thermo 43i	Unknown	600914730	Good	Active
Shop	Thermo 42i	Unknown	1015241586*	Fair	Inactive
Shop	Thermo 48i	Unknown	611616470	Good	Repair
Shop	Thermo 48i	Unknown	1216753230	Good	Repair
Shop	Thermo 49i	Unknown	611616471	Good	Active
Shop	Thermo 49iPS	Unknown	908935366	Good	Active
Shop	ESC 6100	Unknown	6509	Good	Active
Shop	ESC 6100	Feb-17	7584	Good	Active
Shop	ESC 6100	Feb-17	7585	Good	Active
Shop	ESC 6100	Feb-17	7586	Good	Active
Shop	Thermo 48C	Unknown	67186356*	Poor	Inactive

Shop	Thermo 49C-PS	Unknown	423707723*	Poor	Inactive
Shop	Thermo 43C	Unknown	431007303*	Poor	Inactive
Shop	Thermo 48C	Unknown	67941359*	Poor	Inactive
Shop	Thermo 48C	Unknown	68125359*	Poor	Inactive
Shop	Thermo 48C	Unknown	67480356*	Poor	Inactive
Shop	Thermo 49C	Unknown	423707710*	Poor	Inactive
Shop	Thermo 43C	Unknown	75636380*	Poor	Inactive
Shop	Thermo 49C	Unknown	423707712*	Poor	Inactive
Shop	Thermo 49C-PS	Unknown	423707709*	Poor	Inactive

Florida DEP								
Property No.	**Description**	**Location**	**Acquisition Date**	**Age**	**Initial Cost**	**Serial Number**	**Condition**	**Status**
93877	Bios DC2	(Central District Office)	40553	6	0	B403		Active
100359	Thermo Environmental Instruments, Inc 146C	(A137A)	35782	19	9272.1	146C-60152-326		In Storage
100505	Aluma Tower	E0712002	35753	19	1617.35	n/a		Active
100506	Aluma Tower	G0730012	35753	19	1617.36	n/a		Active
100507	Aluma Tower	C0830003	35753	19	1617.35	AT71198-102-3		Active
103172	Thermo Environmental Instruments, Inc 43C	(A137A)	36264	18	8406	43C-63409-339		In Storage
104332	Wells Cargo	B0890005	36474	17	7660	1WC200J12X3042742		Active
104333	Wells Cargo EW2011	B0470015	36474	17	7660	1WC200J14X3042743		Active
104334	Wells Cargo	C0090007	36236	18	7660	1WC200J16X3042744		Active
105200	Chinook Engineering FTS	(Duval County)	36508	17	1095	57-004506-00001		Active
105654	R&P Partisol 2025	(AC-15 Shelf C)	36304	18	11981.8	2025A210659904		Marked for Surplus
105740	Environics 6103	(Standards Lab Room B105)	37560	14	11310.3	2910		Active
105948	Sony Mavica	(OAM QA Room B105)	36474	17	903.95	123035		Active
106222	Thermo Environmental Instruments, Inc 42C	(Palm Beach County)	36508	17	8489	3860-636		Active
106558	ESC 8816	(AC-16 Shelf A)	36532	17	4025	3316		In Storage
106583	Met One Instruments 50.5	(Trailer Dep 06095)	36606	17	1350	Y1712		Marked for Surplus
106605	Bios DC-2M	(Standards Lab Room B105)	37468	15	3147.25	B 1241		Active
106606	Bios DC-2	(Standards Lab Room B105 Cab A)	37489	14	3147.25	B 1242		Active
106634	Aluma Tower	C0090007	36553	17	1590	AT91204-L1-4		Active

106635	Aluma Tower Met Tower	B0470015	36553	17	1590	n/a		Active
106636	Aluma Tower	B0890005	36553	17	1590	n/a		Active
106637	Aluma Tower	A0910002	36553	17	1590	n/a		Active
106638	Aluma Tower	C0830004	36553	17	1590	AT91204-L1-1		Active
106639	Aluma Tower	C0690002	36553	17	1590	AT91204-4-8		Active
106640	Aluma Tower	B0230002	36553	17	1590	n/a		Active
106641	Aluma Tower	(MRAS Shop D101)	36553	17	1590	n/a		Active
106642	Aluma Tower	A0050006	36553	17	1590	AT91204-L1-#9		Active
106643	Aluma Tower T-135	A1130015	36553	17	1590	n/a		Active
106644	Aluma Tower	D1010005	36553	17	1590	AT9120405-6		Active
106668	R&P Partisol 2025	(Trailer Dep 3658)	36538	17	11124.34	2025A21191		Marked for Surplus
106669	R&P Partisol 2025	(MRAS Shop D101)	36538	17	11124.34	2025A211289906		Active
106670	R&P 1400AB	(AC-17)	36538	17	11124.34	140AB227839911		Marked for Surplus
106671	R&P 1400AB	(AC-17 Shelf F)	36538	17	11124.34	140AB227829911		Marked for Surplus
106672	R&P 1400AB	C0090007	36538	17	18961.69	140AB227819911		Active
106673	R&P 1400AB	(AC-17)	36538	17	18961.69	140AB227849911		Marked for Surplus
106674	R&P 1400AB	(Orange County)	36538	17	18961.69	140AB227859911		Active
106801	Bios DC-2	(Standards Lab Room B105)	36535	17	3261	B936		Active
107234	Opsis AR-500	(Weigh Lab Room B107)	36654	17	163950	AR500-E-665		Active
107471	Chinook Engineering Streamline FTS	(Standards Lab Room B105 Cab A)	36678	17	1120	MRAS-4		Active
108018	Hastings	(Standards Lab Room B105)	37536	14	3125	1392900001		Active
108019	Hastings	(Standards Lab Room B105)	37536	14	3125	1392900002		Active
108020	Hastings	(OAM QA Room B105)	37536	14	3125	1392900003		Active
108180	Dasibi 5008	(OAM QA Room B105)	36767	16	12580	873		Active

108298	Opsis 500	(Standards Lab Room B105)	36739	17	19150	OC500-1-029		Active
108299	Aadco	(OAM QA Room B416)	36717	17	5799.89	2673		Active
108760	Dasibi 5008	(OAM QA Room B105)	36808	16	13388.75	860		Active
108916-109177	BGI Incorporated TriCal	(Standards Lab Room B105)	37602	14	2028	65		Active
108995	BGI Incorporated TriCal	(First Coast)	37601	14	2028	66		Active
108997	BGI Incorporated TriCal	B0011003	37601	14	2028	67		Active
109126	BGI Incorporated TriCal	(MRAS Shop D101A)	37601	14	2028	68		Active
109177	BGI Incorporated TriCal	(MRAS Shop D101A)	37601	14	2028	69		Active
109194	Tektronix TDS3032	(MRAS Shop D101D)	36921	16	3821.41	B020425		Marked for Surplus
109195	Dasibi 5008	(OAM QA Room B105)	36955	16	13388.75	910		Active
109218	R&P 1400AB	E0210004	36970	16	16975	140AB234100012		Active
109219	R&P 1400AB	C1275002	36970	16	16975	140AB233270011		Active
109220	R&P 1400AB	(AC-17)	36970	16	16975	140AB233280011		Marked for Surplus
109222	R&P 1400AB	(AC-17)	36952	16	16975	140AB233290011		Marked for Surplus
109620	Environics Portable Mass Flow System	(Standards Lab Room B105)	37015	16	7495	FEPA001		Active
109621	Environics Portable Mass Flow System	(Standards Lab Room B105)	37015	16	7495	FEPA002		Active
109622	Environics Portable Mass Flow System	(Standards Lab Room B105)	37015	16	7495	FEPA003		Active
109727	EKTO	(Trailer DNR 2096)	36970	16	4795	3200-13A		In Storage
110129	Wells Cargo WC200E	B0890010	37670	14	10277	1WC200E1733049495		Active
110269	Quick Marquee	(AC-14)	36994	16	2803	5221434		Marked for Surplus
110688	Aluma Tower	(MRAS Shop Parking Lot)	37130	15	1660	n/a		Marked for Surplus
110689	Aluma Tower	E0550003	37130	15	1660	n/a		Active

110690	Aluma Tower	D0170006	37130	15	1660	n/a		Active
110692	Aluma Tower	(MRAS Shop Parking Lot)	36759	16	1660	n/a		In Storage
110945	R&P 1400AB	(AC-17)	37019	16	16975	140AB235500103		Marked for Surplus
110946	R&P 1400AB	D1056006	37019	16	16975	140AB235430103		Active
111216	Met One Instruments 50.5	(Trailer Dep 06095)	37179	15	1350	A5872		Marked for Surplus
111218	Met One Instruments 50.5	(MRAS Shop D101)	37179	15	1350	A5875		Active
111336	Adam 5000	(Weigh Lab Room B107)	37232	15	1300	IAA0104612		Marked for Surplus
111365	Fisher Scientific	(Weigh Lab Room B107)	37173	15	1198.13	108N0198		Active
111465	Weller WRS-3000	(MRAS Shop D101B)	37208	15	1494	n/a		Active
111487	R&P 1400AB	C1275002	37208	15	16995	140AB238020110		Active
111524	Dasibi 5008	(OAM QA Bruce Ferrier)	37210	15	12580	939		Active
111717	Opsis 150MM Cell	(OAM QA Room B105)	37386	15	3600	n/a		Active
111718	Opsis 110 mm Cell	(OAM QA Room B105)	37386	15	2600	n/a		Active
111719	Opsis	(Hillsborough County)	37386	15	12950	n/a		Active
111720	Opsis OC500	(OAM QA Room B105)	37386	15	12950	n/a		Active
111721	Opsis Optical Bench	(MRAS Shop D101)	37386	15	21870	n/a		Active
112109	R&P 1400AB	C0090007	37294	15	17460	140AB239110201		Active
112110	Wells Cargo	A0590004	37273	15	10812	1WC200J2223047926		Active
113711	Hastings	(OAM QA Room B105)	37426	15	3294.85	1244400001		Marked for Surplus
113829	Hastings Mass Flow Controller	(Standards Lab Room B105)	37463	15	1629	AW02313002		Active
113830	Hastings Mass Flow Controller	(OAM QA Room B105)	37463	15	1629	AW02313003		Active
113831	Hastings Mass Flow Controller	(OAM QA Room B105)	37509	14	1629	AW02313004		Active

113832	Hastings Mass Flow Controller	(OAM QA Room B105)	37509	14	1629	AW02313001		Active
114161	R&P 1400A	(AC-17 Shelf D)	37615	14	16995	140AB242620208		Marked for Surplus
114162	R&P 1400A	E0710005	37980	13	16995	140AB242930209		Active
114696	Met One Instruments 083D-1-35	(MRAS Shop D101)	37637	14	1142.5	B5989		Active
114706	Environics 6103	(OAM QA Room B105)	37671	14	11310.3	3046		Active
114707	Environics 6103	(Standards Lab Room B105)	37671	14	11310.3	3062		Active
115149	Lightning Master Corporation	B0890010	37973	13	2334	n/a		Active
115150	Lightning Master Corporation	C0972002	37973	13	2334	n/a		Active
115151	Lightning Master Corporation	C0690002	37631	14	2334	202103112		Active
115152	Lightning Master Corporation	F1110013	37631	14	2334	n/a		Active
115153	Lightning Master Corporation	B1071008	37973	13	2334	202103111		Active
115154	Lightning Master Corporation	B0013011	37608	14	2334	202103452		Active
115155	Lightning Master Corporation	(MRAS Shop D101B)	37608	14	2334	202103451		Active
115156	Lightning Master Corporation	E0713002	37608	14	2334.1	n/a		Active
115157	Lightning Master Corporation	(MRAS Parking Lot)	37627	14	2334	n/a		Active
115158	Lightning Master Corporation	G0730012	37608	14	2334	304005441		Active
115159	Lightning Master Corporation	A0330004	37677	14	8587.55	n/a		Active
115507	R&P 1400AB	A0330004	37754	14	17460	140AB245470304		Active
115508	R&P 1400A	D1056006	37754	14	17460	140AB245490304		Active
116105	Hastings	(OAM QA Room B105)	37732	14	1310	16156		Active
116106	Hastings	(OAM QA Room B105)	37732	14	1310	16157		Active

117061	Adam 5000E	(Weigh Lab Room B107)	37768	14	1652.75	1154		Marked for Surplus
117062	Adam 5000E	(Weigh Lab Room B107)	37768	14	1652.75	1155		Marked for Surplus
117063	Adam 5000E	(Weigh Lab Room B107)	37768	14	1652.75	1156		Marked for Surplus
117235	Lightning Master Corporation	B0030002	37819	14	2421.56	n/a		Active
117236	Lightning Master Corporation	D1010005	37764	14	2421.67	n/a		Active
117237	Lightning Master Corporation	E0210004	37819	14	2421.56	n/a		Active
117238	Environics	(OAM QA Room B105)	37777	14	1310	16527		Active
117239	Environics	(OAM QA Room B105)	37777	14	1310	16528		Active
117393	Calibration Bath	(Standards Lab Room B105)	37782	14	9972.9	803050081		Active
117858	Foil Kit	(OAM QA Mary Clark)	37819	14	1185	613		Active
117859	Foil Kit	(OAM QA Bruce Ferrier)	37819	14	1185	614		Active
117860	Foil Kit	(Standards Lab Room B105 Cab D)	37819	14	1185	631		Active
117862	Foil Kit	(OAM QA Room B105)	37797	14	1185	AT03243003		Active
117863	MASS FLOW CONTROLLER	(OAM QA Room B105)	37720	14	1592.96	AT03133039		Active
117940	NovaLynx 355-AI0900-04103003	A0330004	42544	1	0	976370-T2		Active
118079	Bios ML 800	(Standards Lab Room B105)	37904	13	33075	n/a		Active
119262	ESC 8832	(Weigh Lab Room B107)	38211	12	6270	A0451		Marked for Surplus
119263	ESC 8832	C1275002	38041	13	6270	A0457		Active
119264	ESC 8832	(MRAS Shop D101)	38211	12	6270	A0458		Marked for Surplus

119265	ESC 8832	(Weigh Lab Room B107)	38037	13	7220	A0463		Marked for Surplus
119266	ESC 8832	D0170006	38037	13	7220	A0464		Active
119267	ESC 8832	(MRAS Shop D101C)	38211	12	6270	A0465		Active
119269	ESC 8832	D1056005	38211	12	6270	A0467		Active
119270	ESC 8832	C0830003	38041	13	6270	A0473		Active
119271	ESC 8832	(MRAS Shop D101)	38047	13	6270	A0487		Active
119272	ESC 8832	(Weigh Lab Room B107)	38047	13	6270	A0488		Marked for Surplus
119273	ESC 8832	(Weigh Lab Room B107)	38047	13	6270	A0489		Marked for Surplus
119274	ESC 8832	C0094001	38047	13	6270	A0490		Active
119275	ESC 8832	D0810028	38047	13	6270	A0491		Active
119276	ESC 8832	(MRAS Shop D101)	38211	12	6270	A0492		In Maintenance
119277	ESC 8832	(Weigh Lab Room B107)	38047	13	6270	A0493		Marked for Surplus
119278	ESC 8832	(MRAS Shop D101)	38047	13	6270	A0494		Active
119279	ESC 8832	F1110013	38047	13	6270	A0495		Active
119280	ESC 8832	C0972002	38047	13	6270	A0496		Active
119281	ESC 8832	(Weigh Lab Room B107)	38047	13	6270	A0497		Marked for Surplus
119283	ESC 8832	E0710005	38211	12	6220	A0589		Active
119284	ESC 8832	E0210004	38120	13	6270	A0590		Active
119285	ESC 8832	A1130015	38120	13	6270	A0591		Active
119286	ESC 8832	E0713002	38120	13	6270	A0592		Active
119287	ESC 8832	D1012001	38211	12	6270	A0593		Active
119288	ESC 8832	D1010005	38120	13	6270	A0594		Active
119289	ESC 8832	C0090007	38120	13	6270	A0595		Active
119290	ESC 8832	A0590004	38120	13	6270	A0596		Active
119291	ESC 8832	C0690002	38120	13	6270	A0597		Active

119292	ESC 8832	(Weigh Lab Room B107)	38120	13	6270	A0598		Marked for Surplus
119293	ESC 8832	C0830004	38211	12	6270	A0599		Active
119294	ESC 8832	D1056006	38120	13	6270	A0600		Active
119295	ESC 8832	B0013011	38120	13	6270	A0601		Active
119296	ESC 8832	E0712002	38120	13	6270	A0602		Active
119297	ESC 8832	(Broward County)	38120	13	7220	A0603		Active
119753	MASS FLOW CONTROLLER	(OAM QA Room B105)	38071	13	1592.42	AT04093008		Active
119754	Aadco	(AC-14)	38075	13	6297	2820		Active
120171	Chinook Engineering FTS	(Standards Lab Room B105 Cab I)	38098	13	1835	HL1		Active
120172	Chinook Engineering FTS	(Standards Lab Room B105 Cab I)	38098	13	1835	HL2		Active
121000	Lightning Master Corporation	G1290001	38257	12	2810	304005441		Active
121305	Environics 6103	(Standards Lab Room B105)	38231	12	12948.5	3285		Active
121345	Lightning Master Corporation	A0910002	38184	13	2810.79	n/a		Active
121346	Lightning Master Corporation	D1056006	38184	13	2810.8	n/a		Active
121347	Lightning Master Corporation	B0890005	38184	13	2810.8	101100942		Active
121348	Lightning Master Corporation	D1012001	38184	13	2810.8	n/a		Active
121816	R&P 1400AB	(AC-17)	38301	12	17460	140AB253220409		Marked for Surplus
121817	R&P 1400AB	B0013011	38301	12	17460	140AB253230409		Active
121818	R&P 1400AB	E0710005	38301	12	17460	140AB253240409		Active
121819	R&P 1400A	F0850007	38301	12	17460	140AB253250409		Active
121882	Chinook Engineering FTS	(Sun Coast)	38288	12	1835	MRAS-1		Active
121883	Chinook Engineering FTS	(MRAS Shop D101A)	38288	12	1835	MRAS-2		Active
122188	NovaLynx 355-A10900	(Sun Coast)	38222	12	1404.69	995472-U1		Active

122462	Opsis	(Weigh Lab Room B107)	38497	12	12070	604		Active
123902	Opsis	(Weigh Lab Room B107)	38497	12	4216	n/a		Active
124178	Wells Cargo TW122	(MRAS Shop Parking Lot)	38488	12	9534.25	1WC200E2353053636		Active
124417	Met One Instruments 083D-1-35	(MRAS Shop D101B)	38534	12	1515.45	D7561		Active
124758	Fluke 715/87V	(Nature Coast)	38512	12	1081	8881056		Active
124759	Fluke 715/87V	(MRAS Shop D101)	38512	12	1081	8881048		Active
124760	Fluke 715/87V	(MRAS Shop D101)	38512	12	1081	8881046		Active
124761	Fluke 715/87V	(MRAS Shop D101A)	38512	12	1081	8881038		Active
124762	Fluke 715/87V	(South District Office)	38547	12	1081	8881043		Active
124763	Fluke 715/87V	(Southwest District Office)	38547	12	1081	8767140		Active
124764	Fluke 715		42600	0	0	8767074		Awaiting Maintenance
124764	Fluke 715/87V	A0330004	38547	12	1081	8767074		Active
124765	Fluke 715/87V	(Northeast District Office)	38547	12	1081	8767090		Active
124766	Fluke 43B	(MRAS Shop D101)	38512	12	1977.45	DM8860166		Active
125012	R&P 2025	(Orange County)	38534	12	11890	2025B 217930506		Active
126972	AALBORG GFM-17	(Standards Lab Room B105)	38775	11	1192.25	154938-1		Active
126973	AALBORG GFM-17	(LabA Cab1 Drawer3)	38779	11	1154.25	154938-2		Active
127268	Thermo Environmental Instruments, Inc 48CTLE	(AC-17 Shelf B)	38797	11	11355	0536 114345		In Storage
127352	Aadco Zero Air Generator	(Standards Lab Room B105)	38817	11	4205	2878		Active
127392	Fluke 8505A Multimeter	(Standards Lab Room B105)	38817	11	15532	908852245		Active

127441	Aluma Tower	A0330018	38810	11	2235	n/a		Active
127442	Aluma Tower T-135-35	F0850007	38838	11	2235	n/a		Active
127465	Mykrolis FC-260V	(MRAS Shop D101A)	38804	11	1337	AA06103066		Active
127530	Fluke 715/87V	(Central District Office)	38840	11	1295.05	9015198		Active
127531	Fluke 715/87V	F0850007	38840	11	1295.05	9005307		Active
127612	ESC 8832	(Broward County)	38828	11	6200	A1289		Active
127613	ESC 8832	A0050006	38828	11	6200	A1288		Active
127614	ESC 8832	E0550003	38831	11	6200	A1287		Active
127615	ESC 8832	(MRAS Shop D101B)	38828	11	6790	A1286		Active
128028	BK Precision 865	(MRAS Shop D101D)	38862	11	1090	113-01362		Active
128367	Bios ML 800	(Standards Lab Room B105)	38904	11	15155	108053		Active
128690	Hastings MASS FLOW CONTROLLER	(LabA Cab1 Drawer4)	38911	11	1375	3315400002		Active
128691	Hastings MASS FLOW CONTROLLER	(LabA Cab1 Drawer4)	38911	11	1375	3315400081		Active
128692	Hastings MASS FLOW CONTROLLER	(LabA Cab1 Drawer4)	38911	11	1375	3315400003		Active
132187	R&P 1400AB	C0830003	39217	10	24964	140AB266790704		Active
132280	eLutions iRX	(AC-17 Shelf C)	39216	10	1116.25	809001693		Marked for Surplus
132281	Thermo Environmental Instruments, Inc 49iPS	G1290001	39227	10	9361	714922084		Active
132282	Thermo Environmental Instruments, Inc 49i	C1171002	39227	10	7313	714922083		Active
132487	R&P 1400AB	(MRAS Shop D101)	39210	10	19224	140AB267260705		Active

132884	Thermo Environmental Instruments, Inc 42i	(AC-15)	39261	10	11305	CM07230014		In Storage
133513	Chinook Engineering Streamline Pro	(MRAS Shop D101A)	39322	9	3548	M070802		CMR Loan
134155	R&P 1400AB	(AC-17)	39406	9	17479	140AB268550709		Marked for Surplus
134321	ESC 8832	A0910002	39450	9	6020	A2187		Active
134322	ESC 8832	B1071008	39450	9	6020	A2188		Active
134323	ESC 8832	A0330018	39450	9	6020	A2326K		Active
134548	R&P 1400AB	(AC-17)	39493	9	18845	140AB270280801		Active
135127	Fluke 715/87V	(Naval Aviation Coast)	39546	9	1300.78	9612035		Active
135128	Fluke 715/87V	(MRAS Shop D101D)	39546	9	1300.78	9612049		Active
135129	Fluke 715/87V	E0210004	39546	9	1300.78	9612059		Active
135229	eLutions iRX	(AC-15 Shelf C)	39546	9	1116.25	809001626		Marked for Surplus
135231	eLutions iRX	(AC-15 Shelf C)	39546	9	1116.25	809001677		Marked for Surplus
135238	Aluma Tower T-135-35	A0910002	39560	9	2367.5	AT-82070-T-4-1		Active
135239	Aluma Tower T-135-35	(MRAS Shop Parking Lot)	39560	9	2367.5	AT-82070-T-4-2		In Storage
135538	Wells Cargo EW2011	B0350004	39596	9	14597	1WC200J2383058622		Active
135562	Wells Cargo EW2011	F0850007	39596	9	14597	1WC200J2583058623		Active
136476	NovaLynx 355-A10900	(First Coast)	42139	2	1404.69	914761-J4		Active
136477	NovaLynx 355-A10900		42139	2	1404.69	914762-J3		Active
136478	NovaLynx 355-A10900	(Sun Coast)	42139	2	1404.69	914762-J4		Active
137051	Thermo Environmental Instruments, Inc 49I-A1NAA	A0910002	39638	9	7533.5	820431148		Active
137052	Thermo Environmental Instruments, Inc 49IPS-ANAA	(A137A)	39638	9	10165	820430996		In Storage

137565	Thermo Environmental Instruments, Inc 1405	B0470015	39696	8	17554	1405A126411212		In Storage
138290	ESC 8832	C1272001	39855	8	6836.66	A3101K		Active
138291	ESC 8832	(MRAS Shop D101)	39855	8	6836.67	A3102K		Active
138292	ESC 8832	B0350004	39883	8	6836.67	A3103K		Active
138593	Chinook Engineering Streamline Pro	(MRAS Shop D101A)	39878	8	3917	M081202		Active
138594	Chinook Engineering Streamline Pro	(MRAS Shop D101A)	39878	8	3917	M081204		Active
138595	Chinook Engineering Streamline Pro	(MRAS Shop D101A)	39878	8	3917	M080510		Active
138597	Met One Instruments 50.5	(Trailer Dep 06095)	39923	8	2365	H11154		Marked for Surplus
139025	Thermo Environmental Instruments, Inc 49i-PS-ANAA	A0050006	39937	8	10202.76	913235776		Active
139174	Thermo Environmental Instruments, Inc 49i-A1NAA	A1130015	39945	8	7569.45	CM09130039		Active
139697	Thermo Environmental Instruments, Inc 2025-AM	E0710005	39993	8	15161.19	2025B225330905		Active
139698	Thermo Environmental Instruments, Inc 2025-AM	C0090007	39993	8	15161.19	2025B225320905		Active
139699	Thermo Environmental Instruments, Inc 1405-AVF	A0590004	39993	8	17705.76	1405A204650904		Active
139700	Thermo Environmental Instruments, Inc 1405-AVF	(MRAS Shop D101D)	39993	8	17705.77	1405A204780905		In Maintenance

139701	Wells Cargo EW2011	E0713002	39973	8	16922.25	1WC200J2693059622		Active
139702	Wells Cargo EW2011	D0170006	39973	8	16922.25	1WC200J2893059623		Active
140120	Teledyne API 700E	B1071008	40101	7	16958.96	703-S		Active
140296	Thermo Environmental Instruments, Inc 2025B	E0710005	40137	7	12575.8	2025B225830910		Active
140297	Thermo Environmental Instruments, Inc 2025B	B0010023	40137	7	12575.8	2025B225910911		Active
140298	Thermo Environmental Instruments, Inc 2025B	C1171002	40137	7	12575.81	2025B225920912		Active
140299	Thermo Environmental Instruments, Inc 2025B	G0730012	40137	7	12575.81	2025B225930912		In Storage
140300	Thermo Environmental Instruments, Inc 2025B	B0010023	40137	7	12575.8	2025B225940912		Active
140301	Thermo Environmental Instruments, Inc 49I-A1NAA	D1012001	40164	7	7936.32	CM09500013		Active
140302	Thermo Environmental Instruments, Inc 49I-A1NAA	G0730012	40164	7	7936.32	CM09500014		Active
140303	Thermo Environmental Instruments, Inc 49I-A1NAA	A0050006	40164	7	7936.32	CM09500015		Active
140304	Thermo Environmental Instruments, Inc 49I-A1NAA	A0590004	40164	7	7936.32	CM09500016		Active

140305	Thermo Environmental Instruments, Inc 49I-A1NAA	(MRAS Shop D101)	40164	7	7936.33	CM09500017		Active
140306	Thermo Environmental Instruments, Inc 49IPS-ANAA	A1130015	40164	7	9808	935239567		Active
140307	Thermo Environmental Instruments, Inc 49IPS-ANAA	(AC-15)	40212	7	9808	935239568		Awaiting Parts
140308	Thermo Environmental Instruments, Inc 49IPS-ANAA	G0730012	40164	7	9808	935239569		Active
140309	Thermo Environmental Instruments, Inc 49IPS-ANAA	D1012001	40164	7	9808	935239570		Active
140310	Thermo Environmental Instruments, Inc 49IPS-ANAA	(AC-16 Shelf A)	40164	7	9808.01	935239571		Awaiting Maintenance
140617	Teledyne API 700E	A0330004	40345	7	15103	898-S		Active
140618	Teledyne API 700E	(AC-17 Shelf C)	40345	7	15103	896-S		Awaiting Parts
140619	Teledyne API 700E	(MRAS Shop D101D)	40345	7	15103	897-S		Active
140620	Teledyne API 700E	(A137A)	40345	7	15103	895-S		Active
140621	Teledyne API 700E	(A137A)	40345	7	15103	899-S		Active
140622	Teledyne API 700E	(MRAS Shop D101D)	40345	7	15103	900-S		Active
140661	ESC 8832	(MRAS Shop D101)	40351	7	9017.5	A3730K		Active
140662	ESC 8832	(MRAS Shop D101)	40351	7	9017.5	A3731K		Active
140930	Vaisala WXT520	B0890005	40359	7	1767.75	F2620012		Active

141098	Bios Definer Model 220 - M	(MRAS Shop D101)	40443	6	1890	120467		Active
141108	Bios Definer Model 220 - M	(A137A)	40443	6	1890	120469		Active
141109	Bios Definer Model 220 - M	E0210004	40443	6	1890	120460		Active
141110	Bios Definer Model 220 - M	(Northwest District Office)	40443	6	1890	120461		Active
141111	Bios Definer Model 220 - M	(South District Office)	40443	6	1890	120827		Active
141112	Bios Definer Model 220 - M	(Standards Lab Room B105 Cab A)	40443	6	1890	120463		Active
141113	Bios Definer Model 220 - M	(Northwest District Office)	40443	6	1890	120466		Active
141114	Bios Definer Model 220 - M	(Southwest District Office)	40443	6	1890	120470		Active
141118	Bios Definer Model 220 - M	(First Coast)	40443	6	1890	120826		Active
141119	Bios Definer Model 220 - M	(Nature Coast)	40499	6	1890	120464		Active
141120	Bios Definer Model 220 - M	(Central District Office)	40499	6	1890	120462		Active
141121	Bios Definer Model 220 - M	(Nature Coast)	40499	6	1890	120468		Active
141122	Bios Definer Model 220 - M	(Central District Office)	40499	6	1890	120465		Active
141123	Bios Definer Model 220 - M	(MRAS Shop D101A)	40499	6	1890	120459		Active
141124	Bios Definer Model 220 - H	(MRAS Shop D101A)	40499	6	1890	120535		Marked for Surplus
141125	Bios Definer Model 220 - H	(MRAS Shop D101)	40499	6	1890	120540		Active
141126	Bios Definer Model 220 - H	E0210004	40499	6	1890	120544		Active
141130	Bios Definer Model 220 - H	(Northwest District Office)	40499	6	1890	120537		Active
141131	Bios Definer Model 220 - H	(South District Office)	40499	6	1890.99	120787		Active

141132	Bios Definer Model 220 - H	(Standards Lab Room B105 Cab A)	40499	6	1890.99	120788		Active
141133	Bios Definer Model 220 - H	(Northwest District Office)	40499	6	1890.99	120640		Active
141134	Bios Definer Model 220 - H	(Southwest District Office)	40499	6	1890.99	120541		Active
141135	Bios Definer Model 220 - H	(Southeast District Office)	40499	6	1890.99	120539		Active
141136	Bios Definer Model 220 - H	(Standards Lab Room B105)	40499	6	1890.99	120534		In Maintenance
141137	Bios Definer Model 220 - H	(Central District Office)	40499	6	1890.99	120536		In Maintenance
141138	Bios Definer Model 220 - H	(First Coast)	40499	6	1890.99	120786		Active
141139	Bios Definer Model 220 - H	(First Coast)	40499	6	1890.99	120538		Active
141140	Bios Definer Model 220 - H	(MRAS Shop D101A)	40499	6	1890.99	120542		Active
141343	Dell Optiplex 780	F1110013	40518	6	621.9			Active
141344	Dell Optiplex 780	(AC-14 Shelf F)	40518	6	621.9	H8Y74P1		In Storage
141345	Dell Optiplex 780	A0590004	40518	6	621.9	HW955P1		Active
141346	Dell Optiplex 780	A0330018	40518	6	621.9	GP955P1		Active
141347	Dell Optiplex 780	(MRAS Shop D101)	40518	6	621.9	1S955P1		Active
141348	Dell Optiplex 780	C0690002	40518	6	621.9	FP955P1		Active
141349	Dell Optiplex 780	D1056005	40518	6	621.9	2X955P1		Active
141350	Dell Optiplex 780	C0972002	40518	6	621.9	8YQ74P1		Active
141351	Dell Optiplex 780	E0712002	40518	6	621.9	J8Y74P1		Active
141352	Dell Optiplex 780	D1012001	40518	6	621.9	8X955P1		Active
141353	Dell Optiplex 780	D0810028	40518	6	621.9	C9Y74P1		Active
141354	Dell Optiplex 780	E0710005	40518	6	621.9	9YQ74P1		Active
141355	Dell Optiplex 780	(MRAS Shop D101)	40518	6	621.9	CQ955P1		Active
141356	Dell Optiplex 780	(MRAS Shop D101)	40518	6	621.9	1Q955P1		Active

141357	Dell Optiplex 780	B0013011	40518	6	621.9	JP955P1		Active
141358	Dell Optiplex 780	F0850007	40518	6	621.9	4YQ74P1		Active
141359	Dell Optiplex 780	A0050006	40518	6	621.9	3BYS3P1		Active
141360	Dell Optiplex 780	E0713002	40518	6	621.9	G6X74P1		Active
141361	Dell Optiplex 780	B1071008	40518	6	621.9			Active
141362	Dell Optiplex 780	E0550003	40518	6	621.9			Active
141363	Dell Optiplex 780	C1272001	40518	6	621.9	7Q955P1		Active
141364	Dell Optiplex 780	(A137H)	40518	6	621.9	29Y74P1		Active
141365	Dell Optiplex 780	D1010005	40518	6	621.9	5BYS3P1		Active
141366	Dell Optiplex 780	(MRAS Shop D101)	40518	6	621.9	FQ955P1		Marked for Surplus
141367	Dell Optiplex 780	(A137H)	40518	6	621.9	J7Y74P1		Active
141368	Dell Optiplex 780	D0170006	40518	6	621.9	19Y74P1		Active
141369	Dell Optiplex 780	A0330004	40518	6	621.9	BR955P1		Active
141370	Dell Optiplex 780	C1275002	40518	6	621.9	H7Y74P1		Active
141371	Dell Optiplex 780	C0090007	40518	6	621.9	D5X74P1		Active
141372	Dell Optiplex 780	(AC-14 Shelf E)	40518	6	621.9	2ZQ74P1		In Storage
141373	Dell Optiplex 780	A1130015	40518	6	621.9	BQ955P1		Active
141374	Dell Optiplex 780	C0094001	40518	6	621.9			Active
141375	Dell Optiplex 780	(AC-14)	40518	6	621.9	JX974P1		Active
141376	Dell Optiplex 780	(MRAS Shop D101)	40518	6	621.9	D9Y74P1		Active
141377	Dell Optiplex 780	B0350004	40518	6	621.9	6XQ74P1		Active
141378	Dell Optiplex 780	A0910002	40518	6	621.9	B5X74P1		Active
141379	Dell Optiplex 780	E0210004	40518	6	621.9	CP955P1		Active
141380	Dell Optiplex 780	D1056006	40518	6	621.9	7XQ74P1		Active
141381	Dell Optiplex 780	(A137A)	40518	6	621.9	1ZQ74P1		Active
141382	Dell Optiplex 780	(AC-16)	40518	6	621.9	GR955P1		Active
141383	Dell Optiplex 780	C0830003	40518	6	621.9	F9Y74P1		Active
141384	Dell Optiplex 780	C0830004	40518	6	621.9	H9Y74P1		Active
141385	Dell Optiplex 780	(MRAS Shop D101)	40518	6	621.9	88Y74P1		Active

141386	Dell Optiplex 780	B0470015	40518	6	621.9	16X74P1		Active
142160	Teledyne API T400	L0860019	40564	6	7819.25	83		Active
142161	Teledyne API T400	L1030004	40564	6	7819.25	84		Active
142162	Teledyne API T400	L1030004	40564	6	7819.25	85		Active
142163	Teledyne API T400	L0860019	40564	6	7819.25	86		Active
142164	Teledyne API T400	(AC-14 Shelf F)	40564	6	7819.25	87		In Storage
142165	Teledyne API M701 Opt 86E	(A137A)	40553	6	4057.13	3412		Active
142166	Teledyne API M701 Opt 86E	B1071008	40553	6	4057.13	3413		Active
142167	Teledyne API M701 Opt 86E	A1130015	40553	6	4057.13	3414		Active
142168	Teledyne API M701 Opt 86E	D0810028	40553	6	4057.13	3415		Active
142169	Teledyne API M701 Opt 86E	(A137A)	40553	6	4057.13	3416		Active
142170	Teledyne API M701 Opt 86E	D0170006	40553	6	4057.13	3418		Active
142171	Teledyne API M701 Opt 86E	(A137A)	40553	6	4057.13	3419		Active
142172	Teledyne API M701 Opt 86E	D1056005	40553	6	4057.13	3420		Active
142173	Teledyne API M701 Opt 86E	(MRAS Shop D101)	40553	6	4057.13	3421		Active
142174	Teledyne API M701 Opt 86E	B0890005	40553	6	4057.13	3422		Active
142175	Teledyne API M701 Opt 86E	(AC-17)	40553	6	4057.13	3423		Cannibalized
142176	Teledyne API M701 Opt 86E	(MRAS Shop D101A)	40554	6	4057.13	3424		In Storage
142178	Vaisala WXT520	A0330004	40569	6	2370	G0350001		Active
142179	Vaisala WXT520	B0030002	40574	6	2370	G0350002		Active
142180	Vaisala WXT520	A0590004	40574	6	2370	G0350003		In Storage
142181	Vaisala WXT520	C0830003	40574	6	2370	G0350004		Active
142182	Vaisala WXT520	A1130015	40574	6	2370	G0350005		Active
142183	Vaisala WXT520	B0350004	40574	6	2370	G0350006		Active

142184	Vaisala WXT520	A0330018	40574	6	2370	G0350007		Active
142185	Vaisala WXT520	B0470015	40574	6	2370	G0350008		Active
142186	Vaisala WXT520	(MRAS Shop D101)	40574	6	2370	G0350009		Active
142187	Vaisala WXT520	B1071008	40574	6	2370	G0350010		Active
142188	Vaisala WXT520	(MRAS Shop D101)	40574	6	2370	G0350011		Active
142189	Vaisala WXT520	F1110013	40574	6	2370	G0350012		Active
142190	Vaisala WXT520	(MRAS Shop D101)	40574	6	2370	G0350013		Active
142191	Vaisala WXT520	A0050006	40574	6	2370	G0350014		Active
142192	Vaisala WXT520	(MRAS Shop D101)	40574	6	2370	G0350015		Active
142203	Teledyne API T703	(AC-14 Shelf F)	40578	6	9757.51	57		In Storage
142204	Teledyne API T703	L1030004	40578	6	9757.51	58		Active
142205	Teledyne API T703	(AC-14 Shelf F)	40578	6	9757.51	59		Marked for Surplus
142206	Teledyne API T703	L0860019	40578	6	9757.51	60		Active
142207	Teledyne API T703	L1030004	40578	6	9757.51	61		Active
142256	Thermo Environmental Instruments, Inc 2025B	C1275002	40625	6	13611.45	2025B227811103		Active
142257	Thermo Environmental Instruments, Inc 2025B	(Trailer Dep 3658)	40625	6	13611.45	2025B227251012		Marked for Surplus
142312	Teledyne API T100	L0118002	40665	6	10211.35	114		Active
143498	Vaisala WXT520	C0972002	40788	5	2250	G3420030		Active
143499	Vaisala WXT520	G0730012	40788	5	2250	G3420033		Active
143500	Vaisala WXT520	(MRAS Shop D101)	40788	5	2250	G3420031		Active
143501	Vaisala WXT520	D1012001	40788	5	2250	G3420027		Active
143502	Vaisala WXT520	A0910002	40788	5	2250	G3420022		Active
143503	Vaisala WXT520	(MRAS Shop D101)	40788	5	2250	G3420021		Active

143504	Vaisala WXT520	D1056006	40788	5	2250	G3420026		Active
143505	Vaisala WXT520	C1171002	40788	5	2250	G3420029		Active
143506	Vaisala WXT520	F0850007	40788	5	2250	G3420035		Active
143507	Vaisala WXT520	C1275002	40788	5	2250	G3420028		Active
143508	Vaisala WXT520	C1272001	40788	5	2250	G3420032		Active
143509	Vaisala WXT520	C0094001	40788	5	2250	G3420024		Active
143510	Vaisala WXT520	G1290001	40788	5	2250	G3420014		Active
143511	Vaisala WXT520	E0210004	40788	5	2250	G3420015		Active
143512	Vaisala WXT520	E0550003	40788	5	2250	G3420025		Active
143513	Vaisala WXT520	E0712002	40788	5	2250	G3420034		Active
143514	Vaisala WXT520	D0170006	40788	5	2250	G3420012		Active
143515	Vaisala WXT520	E0713002	40788	5	2250	G3420011		Active
143516	Vaisala WXT520	C0090007	40788	5	2250	G3420013		Active
143517	Vaisala WXT520	B0013011	40788	5	2250	G3420017		Active
143518	Vaisala WXT520	C0830004	40788	5	2250	G3420016		Active
143519	Vaisala WXT520	B0230002	40788	5	2250	G3420018		Active
143520	Vaisala WXT520	(MRAS Shop D101)	40788	5	2250	G3420020		Active
143521	Vaisala WXT520	C0690002	40788	5	2250	G3420019		Active
143522	Vaisala WXT520	D1010005	40788	5	2250	G3420023		Active
145216	Thermo Environmental Instruments, Inc 49i	(MRAS Shop D101D)	41157	4	8441.78	1227254949		In Maintenance
145217	Thermo Environmental Instruments, Inc 49i	C0972002	41157	4	8441.78	1227254943		Active
145218	Thermo Environmental Instruments, Inc 49i	C0690002	41157	4	8441.78	1227254945		Active
145219	Thermo Environmental Instruments, Inc 49i	(MRAS Shop D101)	41157	4	8441.78	1227254948		Active
145220	Thermo Environmental Instruments, Inc 49i	C0830003	41157	4	8441.78	1227254942		Active

145221	Thermo Environmental Instruments, Inc 49i	(MRAS Shop D101D)	41157	4	8441.78	1227254944		Active
145222	Thermo Environmental Instruments, Inc 49i	A0330018	41157	4	8441.78	1227254950		Active
145223	Thermo Environmental Instruments, Inc 49i	C1272001	41157	4	8441.78	1227254946		Active
145224	Thermo Environmental Instruments, Inc 49i	(A137A)	41157	4	8441.78	1227254947		In Storage
145225	Thermo Environmental Instruments, Inc 49iPS	A0330018	41157	4	11487.49	1227254881		Active
145226	Thermo Environmental Instruments, Inc 49iPS	E0210004	41157	4	11487.49	1227254880		Active
145227	Thermo Environmental Instruments, Inc 49iPS	C1272001	41157	4	11487.49	1227254882		Active
145228	Thermo Environmental Instruments, Inc 49iPS	A0330004	41157	4	11487.49	1227254878		Active
145229	Thermo Environmental Instruments, Inc 49iPS	(Standards Lab Room B105)	41157	4	11487.49	1227254879		Active
145230	Thermo Environmental Instruments, Inc 43i	B1071008	41157	4	11213.28	1227254884		Active
145231	Thermo Environmental Instruments, Inc 43i	B0890005	41157	4	11213.28	1227254883		Active

145265	Thermo Environmental Instruments, Inc 1405	A0910002	40525	6	18374	1405A212581101		Active
145266	Thermo Environmental Instruments, Inc 1405-AVF	B0890010	41264	4	17705.77	1405A213561102		Active
145510	Thermo Fisher Scientific 43I So2 Analyzer	A0330004	41324	4	11497.28	1308857348		Active
145511	Thermo Fisher Scientific 43I So2 Analyzer	D0170006	41324	4	11497.28	1308857349		Active
145512	Thermo Fisher Scientific 43I So2 Analyzer	D0810028	41306	4	11497.28	1308857350		Active
145513	Thermo Fisher Scientific 43I So2 Analyzer	(MRAS Shop D101)	41324	4	11497.28	1308857351		Active
146565	Thermo Fisher Scientific 49i	C1275002	41432	4	8657.24	1317958398		Active
146566	Thermo Fisher Scientific 49i	D1056005	41432	4	8657.24	1317958399		Active
146567	Thermo Fisher Scientific 49i	C0090007	41432	4	8657.24	1317958400		Active
146568	Thermo Fisher Scientific 49iPS	C0094001	41432	4	11771.49	1317958401		Active
146569	Thermo Fisher Scientific 49iPS	C0090007	41432	4	11771.49	1317958402		Active
146570	Thermo Fisher Scientific 49iPS	D1056005	41432	4	11771.49	1317958403		Active
146571	Thermo Fisher Scientific 49iPS	(Standards Lab Room B105 Cab A)	41432	4	11771.49	1317958404		Active
146572	Thermo Fisher Scientific 1405	G0730012	41432	4	16883.57	1405A223811303		Active
146573	Thermo Fisher Scientific 43i	(A137A)	41432	4	11486.4	JC1306300719		Active

146574	Thermo Fisher Scientific 43i	D1056005	41432	4	11486.4	JC1307000751		Active
147046	Thermo Fisher Scientific 49I-A1NNA	C0830004	41547	3	7917.81	1331659576		Active
147047	Thermo Fisher Scientific 49I-A1NNA	B0230002	41547	3	7917.81	1331659580		Active
147048	Thermo Environmental Instruments, Inc 49I-A1NNA	B0350004	41547	3	7917.81	1331659608		Active
147049	Thermo Fisher Scientific 49I-A1NNA	E0210004	41547	3	7917.81	1331659573		Active
147050	Thermo Fisher Scientific 49I-A1NNA	(AC-15)	41547	3	7917.81	1331659539		Awaiting Parts
147051	Thermo Fisher Scientific 49I-A1NNA	B0030002	41547	3	7917.81	1331659578		Active
147052	Thermo Fisher Scientific 49I-A1NNA	D1010005	41547	3	7917.81	1331659538		Active
147053	Thermo Fisher Scientific 49I-A1NNA	E0550003	41547	3	7917.81	1331659581		Active
147054	Thermo Fisher Scientific 49I-A1NNA	E0713002	41547	3	7917.81	1331659575		Active
147055	Thermo Fisher Scientific 49I-A1NNA	F1110013	41547	3	7917.81	1331659609		Active
147056	Thermo Fisher Scientific 49I-A1NNA	B0013011	41547	3	7917.81	1331659579		Active
147057	Thermo Fisher Scientific 49I-A1NNA	A0330004	41547	3	7917.81	1331659577		Active

147058	Thermo Fisher Scientific 49I-A1NNA	D1056006	41547	3	7917.81	1331659574		Active
147059	Thermo Fisher Scientific 49I-A1NNA	E0712002	41547	3	7917.81	1331659610		Active
147060	Thermo Environmental Instruments, Inc 49IPS-ANNA	C0830003	41547	3	10766.07	1331659541		Active
147061	Thermo Environmental Instruments, Inc 49IPS-ANNA	C0972002	41547	3	10766.07	1331659643		Active
147062	Thermo Environmental Instruments, Inc 49IPS-ANNA	C0690002	41547	3	10766.07	1331659645		Active
147063	Thermo Environmental Instruments, Inc 49IPS-ANNA	C1171002	41547	3	10766.07	1331659614		Active
147064	Thermo Environmental Instruments, Inc 49IPS-ANNA	C0830004	41547	3	10766.07	1331659584		Active
147065	Thermo Environmental Instruments, Inc 49IPS-ANNA	E0713002	41547	3	10766.07	1331659585		Active
147066	Thermo Environmental Instruments, Inc 49IPS-ANNA	B0030002	41547	3	10766.07	1331659540		Active
147067	Thermo Fisher Scientific 49IPS-ANNA	B0013011	41547	3	10766.07	1331659582		Active
147068	Thermo Environmental	A0590004	41547	3	10766.07	1331659611		Active

	Instruments, Inc 49IPS-ANNA							
147069	Thermo Environmental Instruments, Inc 49IPS-ANNA	B0350004	41547	3	10766.07	1331659628		Active
147070	Thermo Fisher Scientific 49IPS-ANNA	E0550003	41547	3	10766.07	1331659629		Active
147071	Thermo Environmental Instruments, Inc 49IPS-ANNA	C1275002	41547	3	10766.07	1331659630		Active
147072	Thermo Environmental Instruments, Inc 49IPS-ANNA	D1010005	41547	3	10766.07	1331659583		Active
147073	Thermo Environmental Instruments, Inc 49IPS-ANNA	(A137A)	41547	3	10766.07	1331659627		In Storage
147074	Thermo Fisher Scientific 49IPS-ANNA	F1110013	41547	3	10766.07	1331659642		Active
147075	Thermo Environmental Instruments, Inc 49IPS-ANNA	B0230002	41547	3	10766.07	1331659612		Active
147076	Thermo Environmental Instruments, Inc 49IPS-ANNA	(A137A)	41547	3	10766.07	1331659644		Active
147077	Thermo Fisher Scientific 49IPS-ANNA	D1056006	41547	3	10766.07	1331659613		Active
147078	Thermo Environmental Instruments, Inc 49IPS-ANNA	A0910002	41547	3	10766.07	1331659543		Active

147079	Thermo Environmental Instruments, Inc 49IPS-ANNA	F0850007	41547	3	10766.07	1331659542		Active
147080	Teledyne API T700	(MRAS Shop D101)	41631	3	15313.43	1038		Active
147081	Teledyne API T700	B0470015	41631	3	15313.43	1039		Active
147082	Teledyne API T700	D0810028	41631	3	15313.43	1040		Active
147571	ESC 8832	F0850007	41696	3	7600	A4790K		Active
147572	ESC 8832	(Broward County)	41691	3	7600	A4773K		Active
147891	NovaLynx M202-A10038	(Lee Island Coast)	41739	3	1452.85	1238000148		Active
14796	UltraSonic Bath 220	(MRAS Shop D101)	29221	37	500	A1162		Active
148145	Thermo Fisher Scientific 1405	G1290001	41795	3	17138.19	1405A228401405		Active
148239	Thermo Fisher Scientific 49I	G1290001	41786	3	8960.83	1417862270		Active
148240	Thermo Fisher Scientific 49I	C0094001	41786	3	8960.83	1417862271		Active
148241	Thermo Fisher Scientific 49I	F0850007	41786	3	8960.83	1417862272		In Storage
148242	Thermo Fisher Scientific 49I-PS	(A137A)	41786	3	12231.77	1417862273		Active
148243	Thermo Fisher Scientific 49I-PS	E0712002	41786	3	12231.77	1417862274		Active
148411	Williams Scotsman ACC-16000	A0330018	41859	2	34799	B043MODB25		Active
148419	NovaLynx M202-A10038	(Space Coast)	41873	2	1435	1429000088		Active
148420	NovaLynx M202-A10038	(Nature Coast)	41856	2	1435	1429000089		Active
148421	NovaLynx M202-A10038	(Space Coast)	41856	2	1435	1429000090		Active
149023	Agilaire LLC 8872	G0730012	42037	2	6180	381		Active
149365	Thermo Fisher Scientific 2025i-AN	(MRAS Shop D101)	42037	2	0	2025iW 20723 1412		Active

149366	Thermo Fisher Scientific 2025i-AN	A0330004	42037	2	0	2025iW 20720 1412		Active
149367	Thermo Fisher Scientific 2025i-AN	A0330004	42038	2	0	2025iW 20724 1412		Active
149368	Thermo Fisher Scientific 2025i-AN	G0730012	42038	2	0	2025iW 20721 1412		Active
149369	Thermo Fisher Scientific 2025i-AN	(MRAS Shop D101)	42038	2	0	2025iW 20731 1501		Active
149468	Teledyne API T700U	(MRAS Shop D101D)	42144	2	21510.9	242		Active
149485	Agilaire LLC 8872	A0330004	42171	2	6950	458		Active
149486	Agilaire LLC 8872	G1290001	42171	2	6950	459		In Maintenance
149487	Agilaire LLC 8872	(MRAS Shop D101)	42171	2	6950	460		Active
149488	Agilaire LLC 8872	B0030002	42171	2	6950	461		Active
149489	Agilaire LLC 8872	(MRAS Shop D101)	42171	2	6950	462		Active
149558	Teledyne API T750U		42200	2	21387.9	56		Active
149559	Teledyne API T750U		42200	2	23387.9	57		Active
149560	Teledyne API T750U		42200	2	23387.9	58		Active
149630	Agilaire LLC 8872	B0890005	42262	1	6950	488		Active
149631	Agilaire LLC 8872	B0890010	42261	1	6950	489		Active
149632	Agilaire LLC 8872	B0230002	42262	1	6950	487		Active
149633	Agilaire LLC 8872	C1171002	42262	1	6950	490		Active
149826	Thermo Environmental Instruments, Inc 43I So2 Analyzer	B0470015	42317	1	11497.28	JC 1526101647		In Storage
149827	Thermo Environmental Instruments, Inc 43I So2 Analyzer		42317	1	11497.28	JC 1526101643		Awaiting Maintenance
149904	Teledyne API M602B	C1171002	42324	1	0	SN 182		Active
149905	Teledyne API M602B	G0730012	42324	1	0	SN 183		Active
149906	Teledyne API M602B	(MRAS Shop D101)	42324	1	0	SN 184		In Maintenance

149977	Thermo Environmental Instruments, Inc 1405	A0050006	42289	1	16881.22	1405A232741511		Active
149978	Thermo Environmental Instruments, Inc 1405	(A137A)	42289	1	16881.22	1405A232741510		In Storage
149979	Thermo Environmental Instruments, Inc 1405	B0230002	42289	1	16881.22	1405A232961511		Active
149980	Thermo Environmental Instruments, Inc 1405	A1130015	42289	1	16881.22	1405A232801511		Active
149981	Thermo Environmental Instruments, Inc 1405	D0170006	42289	1	16881.22	1405A232951511		Active
150105	Teledyne API T700	D1056005	42388	1	0	2330		Active
150106	T700	D0170006	42388	1	0	2329		Active
150107	Teledyne API T700	B0890005	42388	1	0	2328		Active
151131	BGI Incorporated tetracal	(Emerald Coast)	42649	0	2549.8	151505		Active
151132	BGI Incorporated tetracal	(Naval Aviation Coast)	42649	0	2549.8	151494		Active
151133	BGI Incorporated tetracal	(Lee Island Coast)	42649	0	2549.8	151503		Active
151134	BGI Incorporated tetracal	(First Coast)	42649	0	2549.8	151509		Active
151135	BGI Incorporated tetracal	(Space Coast)	42649	0	2549.8	151498		Active
151136	BGI Incorporated tetracal	(Forgotten Coast)	42649	0	2549.8	151500		Active
151137	BGI Incorporated tetracal	(Nature Coast)	42649	0	2549.8	151504		Active
151138	BGI Incorporated tetracal	(Sun Coast)	42649	0	2549.8	151493		Active
20552	Sencore LC 53	(AC-14 Shelf A)	29221	37	350	3448433M		Active
21179	Dwyer Instruments Incline Manometer	(MRAS Shop D101)	31121	32	500	400-10		Active
26441	Aluma Tower	C1275002	32066	29	1100	n/a		Active

26880	Thermo Environmental Instruments, Inc 43A	D1052006	32509	28	8000	43A-22800-207		Active
30136	Aluma Tower T-135-35	(MRAS Shop D101)	33563	25	1148	n/a		Marked for Surplus
30253	Anderson 1200	C1275002	33456	26	4070	3834		Active
30277	Wells Cargo	C1272001	33513	25	9020	1WC200J19M3022127		Active
30279	Wells Cargo EW2011	E0710005	33513	25	9020	1WC200J12M3022129		Active
30280	Wells Cargo EW2011	D1012001	33513	25	9020	EW2011WC22129S		Active
30281	Wells Cargo	D1056006	33513	25	9020	EW2011WC22131S		Active
31033	Aluma Tower	C0972002	33563	25	1148	na		Active
31034	Aluma Tower	C1272001	33563	25	1148	AT4794-C-11-8		Active
31036	Aluma Tower	D1056006	33563	25	1148	n/a		Active
31037	Aluma Tower	D1012001	33563	25	1148	n/a		Active
31096	Anderson	C0090007	33562	25	0	5957		Active
31305	Wells Cargo	C0830003	33563	25	9020	1WC200JIXN302977		Active
54321	Dell		41179	4	0			In Storage
87214	Aluma Tower T-135	C1171002	34261	23	1175	n/a		Active
87215	Aluma Tower T-135	(MRAS Shop D101)	34261	23	1175	n/a		Active
87449	Dasibi 5008	(A137I)			13350	207		Active
88409	Wells Cargo	B0030002	34680	22	9074.93	1WC200J1153030266		Active
88410	Wells Cargo	D1050010	34600	22	0	1WC200J14R3028876		Active
89330	Wells Cargo	F1110013	34578	22	9500	n/a		Active
89695	Aluma Tower	A0590004	34627	22	1300	n/a		Active
89696	Aluma Tower	B0030002	34627	22	1300	n/a		Active
89697	Aluma Tower T-135-35'	F1110013	34627	22	1300	n/a		Active
89717	Wells Cargo EW2011	C1171002	34561	22	9074.93	1WC200J16R3028877		Active
89802	Bios DC-2	F0850007	34685	22	3185.73	B0255		Active
89803	Bios DC-2	(OAM QA Room B105)	34685	22	3185.73	B0254		Active
89804	Bios DC-2	(Standards Lab Room B105)	34685	22	3185.74	B0252		Active

90534	Dell	E0150002	34736	22	3455	2Q70C		Active
90594	Wells Cargo	C1275002	34709	22	9500	1WC200J10R3029641		Active
91942	Wells Cargo Gas Cylinder Rack	(MRAS Shop D101A)	35039	21	1150	n/a		Active
91944	Wells Cargo Gas Cylinder Rack	(Trailer Dep 3658)	35039	21	1150	n/a		Active
91947	Wells Cargo Gas Cylinder Rack	(Trailer Dep 3658)	35039	21	1450	n/a		Active
92301	Met One Instruments Cup n Vane	(Trailer Dep 06095)	39202	10	0			Marked for Surplus
92305	Met One Instruments		36892	16	0	n/a		In Storage
92307	Met One Instruments Cup	(MRAS Shop D101)	33239	26	750	n/a		Marked for Surplus
92309	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	33239	26	750	NA		Active
92310	Met One Instruments Cup	(MRAS Shop D101)	33239	26	750	n/a		Marked for Surplus
92312	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	33239	26	750	n/a		Active
92727	Wells Cargo	(MRAS Shop Parking Lot)	34974	21	6543.22	1WC200D1953033346		CMR Loan
93279	Aluma Tower	A0330004	34943	21	1388	n/a		Active
93280	Aluma Tower	B0013011	34943	21	1388	n/a		Active
93281	Aluma Tower T-135	E0713002	34943	21	1388	n/a		Active
93290	NCI 124	(AC-14 Shelf E)	35039	21	2983.9	CVO881241300		In Storage
93291	NCI 124	(AC-14 Shelf E)	35039	21	2983.9	CVO53828585		In Storage
93292	NCI 124	(MRAS Shop D101B)	35039	21	2983.9	CVO53828588		Active
93786	Met One Instruments Cup	(Trailer Dep 06095)	33604	25	750	n/a		Marked for Surplus
93787	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	33604	25	750	n/a		Active
93792	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	33604	25	750	n/a		Active
93793	Met One Instruments Cup	(Trailer Dep 06095)	33604	25	750	n/a		Marked for Surplus

93795	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	33604	25	750	NA		Active
93798	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	33604	25	750	n/a		Active
93799	Met One Instruments Cup 'n Vane	(MRAS Shop D101)	33604	25	750	NA		Active
93874	Bios DC-2NSH	(Southwest District Office)	35059	21	2470	B-398		Active
93875	Bios DC-2	(MRAS Shop D101A)	35059	21	2470	B399		Active
93876	Bios DC-2	(Standards Lab Room B105 Cab A)	35059	21	2470	n/a		Active
93878	Bios DC-2	(Northeast District Office)	35059	21	2470	B404		Active
93883	Wells Cargo	B0013011	35237	21	9381	1WC200J16T3034007		Active
93884	Wells Cargo EW2011	C0094001	35237	21	9381	1WC200J18T3034008		Active
95757	Rittal	(MRAS Shop D101A)	35170	21	1114.31	4418-210-7565		Active
96282	Mettler	(Standards Lab Room B105)	35521	20	9608.75	1115282625		Active
99069	Bios DC-2	(Standards Lab Room B105)	35829	19	3638.89	B-678		Active
99070	Bios DC-2	(Orange County)	35829	19	3638.88	B680		Active
99291	Met One Instruments Cup n Vane	(Trailer Dep 06095)	32874	27	750			Marked for Surplus
99914	Wells Cargo	G0730012	35879	19	9930	1WC200J11W3039118		Active
999999	Aluma Tower	(Budget Storage Warehouse)	37130	15	1660	n/a		In Storage
BL605005	Wells Cargo EW2011	C0972002	36648	17	10188	1WC200J19Y3043548		Active
BL605007	Wells Cargo EW2011	E0210004	36661	17	10188	1WC200J17Y3043550		Active
BL605008	Wells Cargo	B0230002	36717	17	10188	1WC200J10Y3043552		Active
BL605009	Wells Cargo	C0690002	36661	17	10188	1WC200J13Y3043445		Active
BL605010	Wells Cargo EW2011	A0910002	36648	17	10188	1WC200J19Y3043551		Active
BL605011	Wells Cargo	A0050006	36648	17	10188	1WC200J14Y3043554		Active
BL605012	Wells Cargo EW2011	D1010005	36633	17	10188	1WC200J10Y3043549		Active

BL605013	Wells Cargo EW2011	A1130015	36689	17	10188	NEED VIN #		Active
BL605014	Wells Cargo	E0550003	36703	17	10188			Active
BL605015	Wells Cargo EW2011	G0730013	36717	17	10188	1WC200J18Y3043556		Active
BL605016	Wells Cargo	C0830004	36738	17	10188	4913		Active
BL605017	Wells Cargo EW2011	C0090011	36801	16	10188	1WC200J16Y3043555		Active
BL605019	Wells Cargo	B1071008	36803	16	9094	1WC200J19S3043730		Active
BL605022	EKTO 432SP	(Trailer ER015197)	38862	11	5875	3695-7		In Storage
EP003904	Ford Expedition	(Emerald Coast)	35578	20	25483	1FMEU17L2VLB74797		Active
EP004535	Ford Expedition	(OAM QA Bruce Ferrier)	36283	18	24819	1FMRU17L3XLB52263		Active
EP005160	Dodge 2500	(MRAS Shop D101)	37011	16	20198	1B7KC23W71J589281		Active
EP005526	Ford Explorer	(Nature Coast)	41963	2	0	1FMZU72K73ZB13989		Active
EP005552	Ford Expedition	(OAM QA Mary Clark)	38898	11	23303.15	1FMPU15586LA93463		Active
EP006102	Ford Escape	(Naval Aviation Coast)	41963	2	0	1FMCU96HX5KD54537		Active
EP006105	Toyota Prius	(Space Coast)			0	JTDKB20U953054887		Active
EP006108	Ford Van	(MRAS Shop D101)	38490	12	16887	1FTNE24W16HA07776		Active
EP006456	Ford Escape	(Lee Island Coast)	41963	2	0	1FMCU95HX6KD36896		Active
EP006700	Ford Escape	(First Coast)	41963	2	0	1FMCU49H18KA29634		Active
EP006874	Ford Escape	(Space Coast)	41963	2	0	1FMCU59HX8KA49919		Active
EP007185	Chevrolet Tahoe	(BMC Fenced Lot)	41963	2	0	1GNFC13098R265646		Active
EPA Supplied	R&P Partisol 2025	L0952002	35977	19	0	2025A202709805		Active
EPA Supplied	R&P Partisol 2025	D1056006	35977	19	0	2025A203949806		Active
EPA Supplied	R&P Partisol 2025	C1171002	35977	19	0	2025A202699805		In Storage
EPA Supplied	Teledyne API T700U	G1290001	41817	3	0	203		Active
EPA Supplied	RADNET - HVP - 4004BRL - S	G0730012	40023	8	0	18603		Active

EPA Supplied	BGI Incorporated	(Standards Lab Room B105)	40023	8	0	620		Active
EPA Supplied	Met One Instruments SASS	G0730012	37622	14	0	A2593		In Storage
EPA Supplied	Met One Instruments	G0730012	37622	14	0	A2592		Active
EPA Supplied	R&P Partisol 2025	D1056006	36039	18	0	2025A205639807		Active
EPA supplied	URG - 3000	G0730012	40023	8	0	3N-B0724		Active
ER015197	Locally Made	(BMC Parking Lot)	29402	37	2000	T# DNR-2096		Active
ER026442	Aluma Tower	(MRAS Shop Parking Lot)	32066	29	1000.25	n/a		In Storage
ER027456	Hewlett Packard 6114A	(AC-14 Shelf E)	32482	28	1900	2650A05563		In Storage
ER031217	Wells Cargo	D1056005	33634	25	8991.03	1WC200J12N3022729		Active
ERO17411	Hastings Mass Flow Meter	(Standards Lab Room B105)	30467	34	1281.35	0-13344		Active
ERO20029	Dasibi 1009	(OAM QA Room B105)			6900	133		Active
ERO22191		(Standards Lab Room B105 Cab D)			1266.66	11196/15276		In Storage
ERO22570		(Standards Lab Room B105)			5860	KB22-2		In Storage
ERO27676		(Standards Lab Room B105 Cab D)			1896.31	224		In Storage
ERO27859	Hewlett Packard	(OAM Offices)	32573	28	810	2304A47503		Lost/Missing/Stolen
ERO27867	Sencore LC-77	(AC-14 Shelf B)	32492	28	1604.96	6037469-R15		Active
ERO28016	Dasibi 5009	(A137I)	32629	28	9000	254		Active
ERO29230	Hastings 400	(Standards Lab Room B105 Cab D)			3187.66	168		In Storage
ERO29243	Aadco	(Standards Lab Room B105)			8500	2008		In Storage

ERO30020	Hewlett Packard 6114A	(AC-14 Shelf A)	33365	26	2250	3104AU6244		Active
ERO30043	Dasibi 5008	(OAM QA Room B105)	33399	26	11725	62		Active
ERO30044	Dasibi 5008	(A137I)			11725	61		In Storage
ERO30204	Thermo Environmental Instruments, Inc 49	(AC-17 Shelf B)	33484	25	6174	49-34655-248		Marked for Surplus
ERO30208	Thermo Environmental Instruments, Inc 49	(AC-17 Shelf B)	33495	25	6174	49-35020-249		Marked for Surplus
ERO31035	Aluma Tower T-135	E0210004	33563	25	1148	n/a		Active
ERO31406	AIR AIR-HB-1A	(MRAS Shop D101D)	33604	25	700	2D2049		Active
ERO31778	UNGAR	(MRAS Shop D101B)	33751	25	1161.93	n/a		Active
ERO32844		(Standards Lab Room B105 Cab C)			1723.46	13142/18003		Active
Forest Service	Thermo Environmental Instruments, Inc 1400ab	B1071008	39847	8	0	140AB273530810		Active
N/A	Fluke 175		42636	0	0	81150099		Active
N/A	Fluke 77 II		42636	0	0	5290515		Active
N/A	Fluke 87 V		42586	0	0	96390268		Active
N/A	Dwyer Instruments 475		42670	0	0	981025		Active
N/A	Dwyer Instruments 475		42670	0	0	01NW1		Active
N/A	Fluke 87 V		42671	0	0	88700898		Active
N/A	Fluke 77 II		42586	0	0	55280503		Active
Not Required	Vaisala WSP150	(MRAS Shop D101)	40574	6	268	F5030011		Active
Not Required	Vaisala WSP150	(MRAS Shop D101)	40574	6	268	F5030023		Active
Not Required	Vaisala WSP150	(Weigh Lab Room B107)	40574	6	268	F5030006		In Storage

Not Required	Vaisala WSP150	A0330004	40574	6	268	F5030025		Active
Not Required	Vaisala WSP150	(Weigh Lab Room B107)	40574	6	268	F5030019		Active
Not Required	Vaisala WSP150	A0330018	40574	6	268	F5030024		Active
Not Required	Vaisala WSP150	B0470015	40574	6	268	F5030014		Active
Not Required	Vaisala WSP150	(MRAS Shop D101)	40574	6	268	F5030017		In Maintenance
Not Required	Vaisala WSP150	B0030002	40574	6	268	F5030021		Active
Not Required	Vaisala WSP150	G0730012	40574	6	268	F5030008		Active
Not Required	Vaisala WSP150	B0350004	40574	6	268	F5030003		Active
Not Required	Vaisala WSP150	(Weigh Lab Room B107)	40574	6	268	F5030022		Active
Not Required	Vaisala WSP150	F1110013	40574	6	268	F5030012		Active
Not Required	Vaisala WSP150	C0830003	40574	6	268	F5030001		Active
Not Required	Vaisala WSP150	D1056006	40574	6	268	F5030016		Active
Not Required	Vaisala WSP150	(MRAS Shop D101)	40574	6	268	F5030013		Active

Hillsborough County								
Location	**Manufacture**	**Model No.**	**Serial No.**	**Description**	**PCN**	**Status**	**Acquisition Date**	**Condition**
Apollo Bch	R&P	1400ab	140AB23579	TEOM PM MONITOR		Active	38718	Good
Apollo Bch	Cisco	SG110D-08	DNI183608JR	8-Port Gigabit Desktop Switch		Active	4/31/16	Good
Apollo Bch	Thermo	43i	1151660006	Sulfur Dioxide Analyzer	163503	Active	42308	Good
CSX Railyard	Tisch	TE-1000	VFC P7639	High Volume Sampler		Active	40402	Good
CSX Railyard	Tisch	TE-1000	VFC P7669	High Volume Sampler		Active	40402	Good
CSX Railyard	ESC	8816	1482	DATA LOGGER	105557	Active	35718	Fair
CSX Railyard	Sierra Wireless	Airlink Raven X V4221-V	813-293-8556	Wireless Modem		Active	40361	Good
CSX Railyard	RM Young	81000	1820	Ultrasonic Anemometer	139851	Active	38967	Good
CSX Railyard	Aluma Towers	10 Meter Tip Down		10m Tower		Active	37257	Good
Davis Island	Thermo	49i	1417062039	Ozone Analyzer	159672	Active	41809	Good
Davis Island	Agilaire	8832	A3193K	DATA LOGGER	105558	Active	35718	Good
Davis Island	Sierra Wireless	Airlink Raven X V4221-V	813-727-7244	Wireless Modem		Active	39783	Good
Davis Island	RM Young	81000	2464	Ultrasonic Anemometer		Active		Good
Davis Island	Thermo	1405	1405A233691512	TEOM PM MONITOR		Active	42375	Good
Davis Island	Cisco	SG110D-08	DNI183608KH	8-Port Gigabit Desktop Switch		Active	4/31/16	Good
East Bay	Thermo	43C	43C-64052-342	SO2 Analyzer	113125	Active	36433	Good
East Bay	Agilaire	8832	A4031K	DATA LOGGER	105566	Active	35718	Good
East Bay	Sierra Wireless	Airlink Raven X V4221-V	813-455-4791	Wireless Modem		Active	40361	Good
East Bay	API			Shelter Temp Sensor	34888	Active	Pre 1986	Good
East Bay	Aluma Towers	10 Meter Tip Down		10m Tower		Active	37268	Good
EFS	Tisch	Sample Saver	VFC P7538	High Volume Sampler		Active	40179	Good
Gandy	Teledyne-API	T200		NOX Analyzer	155475	Active	41038	Good

Gandy	Thermo	49i	619417392	Ozone Analyzer	139230	Active	38897	Good
Gandy	R&P	1400ab	140AB236660105	TEOM PM MONITOR	118205	Active	37140	Good
Gandy	Agilaire	8832	A3123K	DATA LOGGER	105564	Active	35718	Good
Gandy	Sierra Wireless	Airlink Raven X V4221-V	813-347-3023	Wireless Modem		Active	39783	Good
Gandy	API			Shelter Temp Sensor	34884	Active	Pre 1986	Good
Gandy	U.S. Tower			TOWER TELESCOPING	56540	Active	32462	Good
Gandy	Cisco	SG110D-08	DNI183608F1	8-Port Gigabit Desktop Switch		Active	4/31/16	Good
Gardinier Park	Thermo	1405	1405A229161408	TEOM PM MONITOR	161072	Active	41932	Good
Gardinier Park	Agilaire	8832	A4030K	DATA LOGGER	118149	Active	37140	Good
Gardinier Park	Sierra Wireless	Airlink Raven X V4221-V	813-283-8630	Wireless Modem		Active	40361	Good
Gardinier Park	API			Shelter Temp Sensor	34875	Active	31413	Good
Gardinier Park	Cisco	SG110D-08	DNI183608K4	8-Port Gigabit Desktop Switch		Active	4/31/16	Good
Johnson Control	Tisch	TE-1000	VFC P7808	High Volume Sampler		Active	40179	Good
Kenly	Tisch	TE-1000	VFC P7539	High Volume Sampler		Active	40332	Good
Munro Street	Teledyne-API	633	AE33-S01-00093	Aethalometer	157304	Active	41416	Good
Munro Street	Teledyne-API	T300U	124	CO	157307	Active	41416	Good
Munro Street	Teledyne-API	T200UP	75	Nox	157308	Active	41416	Good
Munro Street	Thermo	5014i	13381008	Continuous PM2.5 Beta	158964	Active	41694	Good
Munro Street	Agilaire	8832	A4646K	DATA LOGGER	157299	Active	41425	Good
Munro Street	Sierra Wireless	Airlink Raven X V4221-V	813-347-3024	Wireless Modem		Active	39783	Good
Munro Street	RM Young	81000	425	Ultrasonic Anemometer	118207	Active	37140	Good
Munro Street	RM Young	81000	1389	Ultrasonic Anemometer	133908	Active	38338	Good

Munro Street	Cisco	SF110D-16	PSZ18381NME	16-Port 10/100 Desktop Switch		Active	4/31/16	Good
Munro Street	Teledyne-API	651	M651130402	Ultrafine Particle Counter	157303	Active	41416	Good
Patent	Tisch	TE-1000	VFC P7807	High Volume Sampler		Active	40332	Good
Simmons Park	Thermo	43C	43C-60170-327	SO2 Analyzer	107292	Active	35996	Good
Simmons Park	Agilaire	8832	A3124K	DATA LOGGER	131960	Active	37938	Good
Simmons Park	Sierra Wireless	Airlink Raven X V4221-V	813-455-4790	Wireless Modem		Active	40361	Good
Simmons Park	RM Young	81000	2463	Ultrasonic Anemometer		Active		Good
Simmons Park	U.S. Tower			TOWER TELESCOPING	109219	Active	36090	Good
Simmons Park	Thermo	49i	1151660004	Ozone Analyzer	162633	Active	42186	Good
Simmons Park	Cisco	SG110D-08	DNI183608JM	8-Port Gigabit Desktop Switch		Active	4/31/16	Good
Sydney	ERG	Carbonyl Sampler	C-6	Carbonyl Sampling System		Active	Rotating	Good
Sydney	Thermo	48CTLE	515211711	CO Trace Level Analyzer	135868	Active	38533	Good
Sydney	Thermo	5014i	CM13181009	Continuous PM2.5 Beta	158214	Active	41466	Good
Sydney	Thermo	49i	717722870	Ozone Analyzer	142735	Active	39283	Good
Sydney	General Metals	PM10	593	Particulate Size Selective Inlet	55972	Active	32421	Good
Sydney	General Metals	PM10	597	Particulate Size Selective Inlet	87043	Active	32421	Good
Sydney	Thermo	2025	2025B215190508	PARTISOL SAMPLER	136048	Active	39554	Good
Sydney	Thermo	2025	2025B214300803	PARTISOL SAMPLER	145254	Active	39554	Good
Sydney	Thermo	2025i	2025i20611201	PARTISOL SAMPLER		Active	40980	Fair
Sydney	General Metals	PUF	11038	PUF Air Sampler		Active		Good
Sydney	Graseby	PUF		PUF Air Sampler		Active		Good
Sydney	Met One	SASS	A4037	Speciation Aerosol Sampling System		Active	38365	Good
Sydney	Thermo	42i-Y	1417162075	NO-DIF-NOY ANALYZER	159671	Active	41814	Good

Sydney	Agilaire	8832	A4645K	DATA LOGGER	157300	Active	41425	Good
Sydney	Sierra Wireless	Airlink Raven X V4221-V	813-347-3025	Wireless Modem		Active	39783	Good
Sydney	RM Young	81000	1394	Ultrasonic Anemometer	133904	Active	38338	Good
Sydney	Aluma Towers	10 Meter Tip Down		10m Tower		Active	37268	Good
Sydney	U.S. Tower	K1550		TOWER TELESCOPING	118925	Active	37164	Good
Sydney	URG	3000N		Carbon Sampling System	161613	Active	42066	Good
Sydney	RM Young	81000	4349	Ultrasonic Anemometer	162637	Active	42223	Good
Sydney	Gravely			MOWER RIDING CRAFTSMAN	162387	Active	42243	Good
Sydney	Cisco	SF110D-16	PSZ18381NML	16-Port 10/100 Desktop Switch		Active	4/31/16	Good
Sydney	Thermo	43iTLE	910735777	SO2 Analyzer Trace	150562	Active	39924	Good
AMD Lab	Thermo	49C	49C-63831-341	Ozone Analyzer	113122	Repair	36433	Poor
AMD Lab	Thermo	49C	325801887	Ozone Analyzer	129397	Repair	37915	Poor
AMD Lab	R&P	2025	2025B203829806	PARTISOL SAMPLER		Repair		Poor
AMD Lab	Met One	SASS	H3766	SASS Control Unit		Repair		Poor
AMD Lab	Thermo	43C	43C-71497-368	SO2 Analyzer	118922	Repair	37164	Poor
AMD Lab	MET ONE	SASS	E1153	Speciation Aerosol Sampling System	134297	Repair	38378	Poor
AMD Lab	API			Shelter Temp Sensor	34874	Repair		Poor
AMD Lab	API			Shelter Temp Sensor	34876	Repair		Poor
AMD Lab	RM Young	81000	288	Ultrasonic Anemometer	114884	Repair	36755	Poor
AMD Lab	RM Young	81000	1392	Ultrasonic Anemometer	133907	Repair	38338	Good
AMD Lab	Thermo	43i	1151630005	Sulfur Dioxide Analyzer	162635	Repair	42185	Good
Apollo Bch	Agilaire	8832	A4032K	DATA LOGGER	105560	Repair	35718	Good
AMD Lab	Thermo	43C	43C-71072-367	SO2 Analyzer	118923	Stand-by	37164	Good
AMD Lab	Agilaire	8832	A4036K	DATA LOGGER	105689	Stand-by	35718	Good
AMD Lab	Sierra Wireless	Airlink Raven X V4221-V	813-283-8735	Wireless Modem		Stand-by	40361	Good
AMD Lab	Sierra Wireless	Airlink Raven X V4221-V	813-347-2397	Wireless Modem		Stand-by	40361	Good

AMD Lab	Kewaunee			TABLE LAB TAN METAL 158X31 INCH	24114	Stand-by	28907	Good
AMD Lab	Met One	BAM1020	K18874	Beta Gauge System	153251	Stand-by	40511	Good
AMD Lab	Met One	BAM1020	K18875	Beta Gauge System	153252	Stand-by	40511	Good
AMD Lab	Airgos	UV Sentry	Unknown	Open Path Analyzer	131727	Stand-by	38134	Fair
AMD Lab	Thermo	49C		Ozone Analyzer	102851	Stand-by	35355	Good
AMD Lab	Thermo	49i	CM08320014	Ozone Analyzer		Stand-by		Good
AMD Lab	URG	3000N	3N-B0356	Carbon Sampling System		Stand-by	39814	Good
AMD Lab	Thermo	43CTLE	509111179	SO2 Analyzer Trace	135869	Stand-by	38533	Good
AMD Lab	R&P	1400ab	140AB231200006	TEOM PM MONITOR	115247	Stand-by	36769	Poor
AMD Lab	ESC	8816	1491	DATA LOGGER	105554	Stand-by	35718	Fair
AMD Lab	ESC	8816	1487	DATA LOGGER	105561	Stand-by	35718	Fair
AMD Lab	ESC	8816	1481	DATA LOGGER	105565	Stand-by	35718	Fair
AMD Lab	ESC	8816	1489	DATA LOGGER	105567	Stand-by	35718	Fair
AMD Lab	ESC	8816	4237	DATA LOGGER	119781	Stand-by	37225	Fair
AMD Lab	ESC	8816	4418	DATA LOGGER	125015	Stand-by	37372	Fair
AMD Lab	ESC	8816	5001	DATA LOGGER	131961	Stand-by	37938	Fair
AMD Lab	ESC	8816	5025	DATA LOGGER	131962	Stand-by	37938	Fair
AMD Lab	ESC	8816	3986	DATA LOGGER		Stand-by		Fair
AMD Lab	ESC	8816	3985	DATA LOGGER		Stand-by		Fair

AMD Lab	RM Young		974	Precipitation Gauge	118206	Stand-by	37140	Fair
AMD Lab	API			Shelter Temp Sensor	34877	Stand-by		Fair
AMD Lab	API			Shelter Temp Sensor	34881	Stand-by		Fair
AMD Lab	Met One	50.5	A3130	Ultrasonic Anemometer		Stand-by		Fair
AMD Lab	Met One	50.5	A3264	Ultrasonic Anemometer		Stand-by		Fair
AMD Lab	RM Young	4503/4509	205905	Wind Vane	74185	Stand-by	33329	Fair
AMD Lab	RM Young	4503/4509	206205	Wind Vane	74186	Stand-by	33329	Fair
AMD Lab	RM Young	4503/4509	206005	Wind Vane	74187	Stand-by	33329	Fair
AMD Lab	RM Young	4503/4509	206105	Wind Vane	74188	Stand-by	33329	Fair
AMD Lab	RM Young	4503/4509	205805	Wind Vane	74189	Stand-by	33329	Fair
AMD Lab	RM Young	4503/4509	2506	Wind Vane	96870	Stand-by	34843	Fair
AMD Lab	RM Young	4503/4509	2508	Wind Vane	96872	Stand-by	34843	Fair
AMD Lab	RM Young	4503/4509	2505	Wind Vane	96873	Stand-by	34843	Fair
AMD Lab	Huntron	Tracker 2000		Circuit tester	42214	Stand-by	31877	Fair
AMD Lab	BK Precision	Dynascan O-Scope		Oscope	35639	Stand-by	30679	Fair
AMD Lab	RESTEK CORP		2848	Silco Can		Stand-by		Fair
AMD Lab	RESTEK CORP		2849	Silco Can		Stand-by		Fair
AMD Lab	RESTEK CORP		2895	Silco Can		Stand-by		Fair
AMD Lab	RESTEK CORP		2856	Silco Can		Stand-by		Fair

AMD Lab	RESTEK CORP		2852	Silco Can		Stand-by		Fair
AMD Lab	US Vacuum	TV 25B	0803F341788	Vacuum Pump		Stand-by		Fair
AMD Lab	Agilaire	8872	478	DATA LOGGER	162688	Stand-by	42250	Good
Apollo Bch	Thermo	49C	49C-71572-369	Ozone Analyzer		Stand-by		Good
Davis Island	Thermo	43i	JC1411401168	Sulfur Dioxide Analyzer	159674	Stand-by	41779	Good
East Bay	ESC	8816	1490	DATA LOGGER	105552	Stand-by	35718	Fair
EPC Boat House	Tisch	TE-5170-DV TSPVFC	P7404	High Volume Sampler		Stand-by		Good
EPC Boat House	Tisch	TE-5170-DV TSPVFC	P7405	High Volume Sampler		Stand-by		Good
EPC Boat House	Tisch	TE-5170-DV TSPVFC	P7406	High Volume Sampler		Stand-by		Good
EPC Boat House	Tisch	TE-5170-DV TSPVFC	P7407	High Volume Sampler		Stand-by		Good
EPC Boat House	Tisch	TE-5170-DV TSPVFC	P7408	High Volume Sampler		Stand-by		Good
EPC Boat House	General Metals	PM10	595	Particulate Size Selective Inlet	55972	Stand-by	32422	Good
EPC Boat House	Tisch	PUF	2958	PUF Air Sampler	146302	Stand-by	39646	Good
EPC Boat House	Climatronics	tower	B1-B	TOWER TELESCOPING		Stand-by		Fair
EPC Office	Sierra Wireless	Airlink Raven X V4221-V	813-293-9176	Wireless Modem		Stand-by	40361	Good
EPC Office	RESTEK CORP		1187	Silco Can	114887	Stand-by	36755	Good
EPC Office	Thermo	49C	49C-71572-369	Ozone Analyzer	118921	Stand-by	37164	Good
Location	Manufacture	Model No.	Serial No.	Description	PCN	Status	ACQ Date	Condition
EPC Office	Agilaire	8832	A3125K	DATA LOGGER	118147	Stand-by	37140	Good
Gandy	ESC	8816	4093	DATA LOGGER	118148	Stand-by	37140	Fair

TMDL Trailer	Li-Cor Biosciences	LI200X-L	PY60044	Licor Pyranometer		Stand-by		Fair
TMDL Trailer	ETI	NOAH IV	4095	Rain Gauge		Stand-by		Fair
TMDL Trailer	ETI	NOAH IV	4097	Rain Gauge		Stand-by		Fair
TMDL Trailer	ParoScientific	Met 4 A	106006	T/RH/BP		Stand-by		Fair
TMDL Trailer	ARA Inc.	Various	DA001	Dry Air System		Stand-by		Fair

Manatee County						
Equipment	**Serial Number**	**Acquisition Date**	**Condition**	**Quantity**	**Replacement Equipment**	**Initial Cost Estimate**
Fluke 1621 Earth Ground tester	S090300921A3	2012	Replaced/New	0	Fluke 1623-2 GEO Earth Ground Tester	$2,699.95
ESC 8832 Data Logger (G.T. Bray)	A1583K	2006	Replaced/New	0	Agilaire 8872 Site Node (G.T. Bray)	$7,640.00
Air Monitoring Trailer (G.T. Bray)	N/A	1998	Replaced/New	1	Modular Biulding (G.T. Bray)	$20,000.00
Air Monitoring Shelter Interior (GT Bray)	N/A	1998	Replaced/New	1	Shtr. Int. (GT) ($2000) + Site/Prmts ($4000)	$6,000.00
GAST 1 HAB-11T-M100X (Zero-Air) Port	N/A	Unknown	Fair	1	GAST 1 HAB-11T-M100X (Zero-Air) Port	$1,082.05
GAST 1 HAB-11T-M100X (Zero-Air) G.T. Bray	N/A	Unknown	Fair	1	GAST 1 HAB-11T-M100X (Zero-Air) G.T. Bray	$1,082.05
GAST 1 HAB-11T-M100X (Zero-Air) 39th St.	N/A	Unknown	Fair	1	GAST 1 HAB-11T-M100X (Zero-Air) 39th St.	$1,082.05
LabComp ATX Shelter Temperature (obsolete)	Various	Unknown	Fair	1	Omega HX93BV1-D Duct Mount Temperature / Relative Humidity Transmitter, 0 to 5 volt.	$255.00
LabComp ATX Shelter Temperature (obsolete)	Various	Unknown	Fair	1	Omega HX93BV1-D Duct Mount Temperature / Relative Humidity Transmitter, 0 to 5 volt.	$255.00
LabComp ATX Shelter	Various	Unknown	Fair	1	Omega HX93BV1-D Duct Mount Temperature / Relative Humidity Transmitter, 0 to 5 volt.	$255.00

Temperature (obsolete)						
Synchrotac Hand-held Anem. (Ref.) (Obs.)	N/A	Unknown	Fair	1	Extech AN400 Cup Thermo-Anemometer	$189.00
Meteorological Tower (Port)	N/A	1992	Good	1	Glen Martin Met Tower model MF1331	$7,750.00
N/A	N/A	New	N/A	1	Omega HX93BV1-D (Spare)	$255.00
GAST 1 HAB-11T-M100X (Shop)	N/A	Unknown	Good	1	GAST 1 HAB-11T-M100X (Shop)	$1,082.05
Portable Dehumidifier (Various Models)	Various	Unknown	Good	1	Portable Dehumidifier (50 Qt.)	$230.00
Portable Dehumidifier (Various Models)	Various	Unknown	Good	1	Portable Dehumidifier (50 Qt.)	$230.00
Portable Dehumidifier (Various Models)	Various	Unknown	Good	1	Portable Dehumidifier (50 Qt.)	$230.00
Barometer High Altitude, Portable	99179	Unknown	Good	1	BIOS Definer 220M Med. Flow (Check Std.)	$2,125.00
N/A	N/A	New	N/A	1	AirVision Web Interface	$5,000.00
ESC 8832 Data Logger (39th St.)	A3763K	2011	Good	1	Agilaire 8872 Site Node (39th)	$7,640.00
N/A	N/A	New	N/A	1	2B Tech Mod. 306 O3 Cal Src.	$5,000.00
Meteorological Tower (G.T. Bray Park)	N/A	1998	Good	1	Glen Martin Met Tower model MF1331	$7,750.00
Air Monitoring Trailer (39th Street)	N/A	1998	Fair	1	Modular Building (39th Street)	$20,000.00

Air Monitoring Shelter Interior (39th St.)	N/A	1998	Fair	1	Shtr. Int. (39th) ($2000) + Site/Prmts ($4000)	$6,000.00
ESC 8832 Data Logger (Port)	A4002K	2012	Good	1	Agilaire 8872 Site Node (Port)	$7,640.00
2B Tech 202 Ozone Monitor	903	2010	Good	1	2B Tech 202 (or equiv.)	$5,000.00
Airlink GX400 Cellular Gateway	Various	2012	Good	1	Cellular Gtwy ($750) + VPN/Security ($1500)	$2,250.00
Airlink GX400 Cellular Gateway	Various	2012	Good	1	Cellular Gtwy ($750) + VPN/Security ($1500)	$2,250.00
Airlink GX400 Cellular Gateway	Various	2012	Good	1	Cellular Gtwy ($750) + VPN/Security ($1500)	$2,250.00
ESC 8832 Data Logger (Spare)	A1583K	2006	Good	1	Agilaire 8872 Site Node (Spare)	$7,640.00
Meteorological Tower (39th Street)	N/A	1998	Good	1	Glen Martin Met Tower model MF1331	$7,750.00
Fluke 51-II Temperature	14390153	2010	Good	1	Fluke 51-II Temperature (Equiv.)	$340.25
Fluke 175 DVM	15880829	2011	Good	1	Fluke 175 DVM (Equiv.)	$336.75
Thermo 49iPS Primary Std. (G.T. Bray)	1023843898	2010	Good	1	Thermo 49i PS (Equiv.)	$10,417.00
Thermo 49iPS Primary Std. (39th Street)	1116648522	2011	Good	0	Thermo 49i PS (Equiv.)	$10,417.00
Thermo 49iPS Primary Std. (Port)	1311657726	2013	Good	0	Thermo 49i PS (Equiv.)	$10,417.00

Fluke 715 Loop Calibrator	2799124	2014	Good	0	N/A	$0.00
2B Tech 202 Ozone Monitor	1092	2011	Good	0	N/A	$0.00
BIOS Definer 220M Med. Flow (Pri. Std.)	135621	2014	Good	0	N/A	$0.00
2B Tech 202 Ozone Monitor	1094	2011	Good	0	N/A	$0.00
2B Tech 202 Ozone Monitor	1221	2012	Good	0	N/A	$0.00
Air Monitoring Shelter (Port)	N/A	2012	Good	0	N/A	$0.00
Air Monitoring Shelter Interior (Port)	N/A	2012	Good	0	N/A	$0.00
ESC 8832 Relay Out Card	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Relay Out Card	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Relay Out Card	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Relay Out Card	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Relay Out Card	N/A	Unknown	Good	0	N/A	$0.00

ESC 8832 Voltage In Card	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Voltage In Card	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Voltage In Card	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Met In Card	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Status In Card (Obs.)	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Status In Card (Obs.)	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Status In Card (Obs.)	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Status In Card (Obs.)	N/A	Unknown	Good	0	N/A	$0.00
ESC 8832 Status In Card (Obs.)	N/A	Unknown	Good	0	N/A	$0.00

Miami-Dade County							
AIR ID	**DC#**	**ITEMS IN INVENTORY**	**COMPANY**	**MODEL**	**SN**	**CONDITION**	**LOCATION**
OP-6	821943	O3 CAL PRIMARY STANDARD	THERMO SCIENTIFIC	49I-PS	1108747387	Serviceable/In Use	PR 0029
OZ-20	822887	OZONE MONITOR	T-API	T400	101	Serviceable/In Use	PR 0029
SO-8	828399	SO2 MONITOR	FISHER	43I	1305956985	Serviceable/In Use	PN 0019
OP-7	828400	OZONE PRIMARY	FISHER	49I-PS	1303256525	Serviceable/Surplus	8-08
DL-57	828028	DATALOGGER	ESC AGILAIRE	8832	A4448K	Serviceable/Surplus	8-08
DL-58	828029	DATALOGGER	ESC AGILAIRE	8832	A4446K	Serviceable/Surplus	8-08
DL-59	828030	DATALOGGER	ESC AGILAIRE	8832	A4449K	Serviceable/Surplus	RS 0027
	623155	ANALYZER	R&P	4329D	3412-12	Serviceable/Surplus	TRADE SHOPS
SSI-7	527508	PM10 HEAD	ANDERSEN	1200	2117	Serviceable/Surplus	2-220
NO-12	658304	NO2 MONITOR	TEI	42C	0331002822	Serviceable/Surplus	8-08
	819197	Teom Air Conditioner		09008515-2	J32I02Y	Serviceable/Surplus	2-220
	471334	OSCILLOSCOPE	TEKTRONIX	2236	B014584	Serviceable/Surplus	8-08
SSI-2	496260	PM10 HEAD	ANDERSEN	1200	2747	Serviceable/In Use	MF 1016S
SSI-3	496261	PM10 HEAD	ANDERSEN	1200	2748	Serviceable/In Use	MF 1016C
BL-2	510796	BALANCE	SARTORIUS	A200S-**D1B	40090007	Serviceable/In Use	8-10A
ZA-2	533459	ZERO AIR SYS	AADCO	737	48C-60245-327	Serviceable/Surplus	8-08
PF-04	604597	PM2.5 SAMPLER FRM	R&P	2025	2025A205869808	Serviceable/Surplus	8-08
OP-2	604807	O3 PRIMARY	TECO	49C PS	49PC60619327	Unserviceable/Surplus	8-08
OP-3	604808	O3 PRIMARY	TECO	49C PS	2025B216240304	Serviceable/Surplus	8-08
OP-4	604809	O3 PRIMARY	TECO	49C PS	49CPS-60713-328	Serviceable/Surplus	8-08
OP-5	604810	O3 PRIMARY	TECO	49C PS	49CPS-60715-328	Unserviceable/Needed	8-08
ZA-09	609076	ZERO AIR SYS	AADCO	737	2645	Unserviceable/Surplus	2-220
FTS-3	610149	FLOW TRANSFER STD	R&P	DWYER 475-O MARK III	CHINOOK 990622	Serviceable/In Use	5-146
FTS-4	610150	FLOW TRANSFER STD	R&P	DWYER 475-O MARK III	CHINOOK 990611	Serviceable/In Use	8-08
DC-006	635727	ORIFICE, FLOW	ANDERSEN			Serviceable/In Use	8-10

DC-005	635728	ORIFICE, FLOW	ANDERSEN			Serviceable/In Use	8-10
DL-42	640067	DATALOGGER	ESC	S-112-0001 (8816)	4439	Serviceable/In Use	CR 0031
DL-43	640068	DATALOGGER	ESC	S-112-0001	4440	Serviceable/In Use	LB 4002
DL-44	640069	DATALOGGER	ESC	S-112-0001	4441	Serviceable/In Use	PN 0019
DL-45	640070	DATALOGGER	ESC	2-112-0001	4442	Unserviceable/Surplus	PR 0029
DL-46	640071	DATALOGGER	ESC	8816	1585	Serviceable/Surplus	8-08
DL-47	640072	DATALOGGER	ESC	S-112-0001	4444	Serviceable/Surplus	8-08
DL-48	640073	DATALOGGER	ESC	S-112-0001	4445	Serviceable/Surplus	8-08
DL-40	640074	DATALOGGER	ESC	S-112-0001	4437	Unserviceable/Surplus	8-08
DL-41	640075	DATALOGGER	ESC	8861	898	Unserviceable/Needed	8-08
OZ-18	650568	O3 MONITOR	TECO	49C	49C-76048-381	Serviceable/Surplus	8-08
OZ-17	650569	O3 MONITOR	TECO	49C	0331002821	Unserviceable/Needed	8-08
MX-14	650570	MIXER	ENVIRONICS	6100	48C-62460-335/5	Unserviceable/Surplus	8-08
MX-15	650571	MIXER	ENVIRONICS	6100	2988	Serviceable/Surplus	8-08
DCL-L1	650572	DRYCAL DC-LITE	BIOS	DCL-L	6536	Serviceable/Surplus	8-10
DCL-MH2	650573	DRYCAL DC-LITE	BIOS	DCL-MH	6238	Serviceable/Surplus	8-10
ZA-12	650640	ZERO AIR SYS	AADCO	737	2780	Unserviceable/Surplus	2-220
ZA-10	650641	ZERO AIR SYS	AADCO	737	2779	Unserviceable/Surplus	2-220
DCL-MH3	650643	DRYCAL DC-LITE	BIOS	DCL-MH	6828	Serviceable/In Use	5-142
DCL-MH1	650644	DRYCAL DC-LITE	BIOS	DCL-20K	2081	Serviceable/In Use	8-10
	650646	AIR CONDITIONER TEOM	APW MCLEAN	CR29-0216-G002	02160207-4	Serviceable/In Use	HF 6001
DL-49	650647	DATALOGGER	ESC	S-112-0001	0331002823	Unserviceable/Surplus	KN 0034
DL-50	650648	DATALOGGER	ESC	S-112-0001	48C-62461-335/5	Unserviceable/Surplus	8-08
OZ-16	651906	O3 MONITOR	TECO	49C	02155698-3	Unserviceable/Surplus	8-08
DL-54	655484	DATALOGGER	ESC	S-112-0001	48C-60244-327	Unserviceable/Surplus	8-08
DL-55	655485	DATALOGGER	ESC	S-112-0001	4948	Serviceable/In Use	8-08
DL-56	655486	DATALOGGER	ESC	8816	4956	Serviceable/Surplus	8-08
TM-05	655487	TEOM	R&P	1400A	140AB246900307	Unserviceable/Needed	MF TEOM

TM-06	655488	TEOM	R&P	1400A 02160207-4	140AB246910307	Unserviceable/Surplus	8-08
TM-04	655489	TEOM	R&P	1400A	140AB246890307	Serviceable/In Use	2-220
	657496	WIND SYSTEM	YOUNG	81000	01013	Serviceable/In Use	5-144
	657497	WIND SYSTEM	YOUNG	81000	01011	Serviceable/In Use	RS 0027
	657498	WIND SYSTEM	YOUNG	81000	01012	Serviceable/In Use	8-08
	657499	WIND SYSTEM	YOUNG	81000	01014	Serviceable/In Use	8-08
SO-6	658302	SO2 MONITOR	TEI	43C	0333503279	Unserviceable/Needed	8-08
MX-17	658868	MIXER	ENVIRONICS	6100	3177	Serviceable/In Use	8-08
MX-16	658869	MIXER	ENVIRONICS	6100	2987	Serviceable/In Use	8-08
OZ-19	659392	O3 MONITOR	TECO	49C	032650000001331	Unserviceable/Needed	8-08
PF-05	659433	PM2.5 SAMPLER FRM	R&P	2025B216260304	2025B216240304	Unserviceable/Surplus	8-08
PF-06	659434	PM2.5 SAMPLER FRM	R&P	2025	2025B216110301	Unserviceable/Surplus	8-08
PF-07	659435	PM2.5 SAMPLER FRM	R&P	2025	2025B216260304	Unserviceable/Surplus	MF 1016C
PF-09	661184	PM2.5 SAMPLER FRM	R&P	2025	2025B217190408	Unserviceable/Surplus	MF 1016S
PF-08	661185	PM2.5 SAMPLER FRM	R&P	2025	2025B217240408	Serviceable/In Use	8-08
CO-13	661212	CO MONITOR	TEI	48C	0431709338	Serviceable/Surplus	8-08
CO-12	661213	CO MONITOR	TEI	48C	0431709339	Unserviceable/Needed	8-08
SO-7	661214	SO2 MONITOR	TEI	43C	0431709340	Serviceable/In Use	8-08
FTS-5	670630	FLOW TRANSFER STD	R&P	DWYER 475-O MARK III	050315	Serviceable/In Use	MF TEOM
FTS-6	670631	FLOW TRANSFER STD	R&P	DWYER 475-O MARK III	040908	Unserviceable/Surplus	8-10
	700776	FREEZER	FISHER	FFU21C4CW5	WB41445918	Serviceable/In Use	8-10
	701395	AIR CONDITIONER TEOM	APW MCLEAN	CR29-0216-G002	03020733-3	Unserviceable/Surplus	MF TEOM
CO-14	808751	CO MONITOR	T-API	M300U		Serviceable/In Use	KN 0034
CO-15	808752	CO MONITOR	T-API	M300U	9C4443	Serviceable/In Use	CR 0031
CO-16	808753	CO MONITOR	T-API	300E	2233	Serviceable/In Use	8-08
CO-17	808754	CO MONITOR	T-API	300E	2234	Serviceable/In Use	LB 4002
NO-14	811764	NO2 MONITOR	TEI	42I	CM08190013	Serviceable/In Use	5-142
NO-16	818999	NO2 I-SERIES MONITOR	TEI	42I	CM10360071	Unserviceable/Surplus	8-08
NO-15	819196	NO2 I-SERIES MONITOR	TEI	42I	1007741317	Serviceable/In Use	8-08

ZA-13	819570	ZERO AIR SYS	T-API	M701	3299	Serviceable/In Use	8-08
ZA-17	819571	ZERO AIR SYS	T-API		3300	Serviceable/In Use	KN 0034
	819572	ZERO AIR SYS	T-API	M701	3297	Serviceable/In Use	8-08
ZA-16	819573	ZERO AIR SYS	T-API	M701	3284	Serviceable/In Use	CR 0031
ZA-15	819574	ZERO AIR SYS	T-API	M701	3295	Serviceable/In Use	PN 0019
ZA-14	819575	ZERO AIR SYS		737	2597	Serviceable/In Use	RS 0027
MX-18	847519	MIXER	ENVIRONICS	6100	6148	Serviceable/In Use	LB 4002
MX-19	847518	MIXER	ENVIRONICS	6100	6149	Serviceable/In Use	PN 0019
MX-20	847517	MIXER	ENVIRONICS	6100	6150	Serviceable/In Use	8-08
	851322	WIND MONITOR - PROPELLER	R.M. YOUNG	05305	WM00136427	Serviceable/In Use	5-146
	851323	WIND MONITOR - PROPELLER	R.M. YOUNG	05305	WM00136428	Serviceable/In Use	
	851324	WIND MONITOR - PROPELLER	R.M. YOUNG	05305	WM00136429	Serviceable/In Use	
	851325	WIND MONITOR - PROPELLER	R.M. YOUNG	05305	WM00136430	Serviceable/In Use	
	851326	WIND MONITOR - PROPELLER	R.M. YOUNG	05305	WM00136431	Serviceable/In Use	
	851327	WIND MONITOR - PROPELLER	R.M. YOUNG	05305	WM00136432	Serviceable/In Use	RS 0027
	851328	VANE ANGLE BENCH STAND	R.M. YOUNG	18112	CA4187	Serviceable/In Use	2-220
	848716	PARTISOL 2025i	TEI	2025I	2025i206811408	Serviceable/In Use	PS 0033
NO-17	847698	NO2 MONITOR	T-API	T200	1550	Serviceable/In Use	RS 0027
OZ-21	847984	O3 ANALYZER	TEI	49I	1429063114	Serviceable/In Use	RS 0027
MX-21	850706	MIXER	ENVIRONICS	6100	6255	Serviceable/In Use	5-139
OZ-23	847867	O3 ANALYZER	TEI	49I	1429063113	Serviceable/In Use	
DEF-510C	850701	AIR FLOW CALIBRATOR	MESA LABS		137246	Serviceable/In Use	5-139
DEF-510B	850702	AIR FLOW CALIBRATOR	MESA LABS		137247	Serviceable/In Use	5-139
NO-18	847699	MONITOR	T-API	T200	1551	Serviceable/In Use	LB 4002
DL-61	847982	DATALOGGER	ESC	8872	0318	Serviceable/In Use	2-220
DL-62	847983	DATALOGGER	ESC	8872	0319	Serviceable/In Use	2-220

OP-8	850212	O3 PRIMARY	TEI	49I PS	1430063227	Serviceable/In Use	RS 0027
SO-9	850213	SO2 MONITOR	TEI	43I	JC1423701318	Serviceable/In Use	5-143
DEF-510A	850705	FLOW METER	MESA LABS		136130	Serviceable/In Use	5-143
ZA-18	853352	HIGH PERFORMANCE ZERO AIR SYSTEM	T-API	T701H	145	Serviceable/In Use	PE 0035
NO-19	853351	ULTRA SENSITIVE PHOTOLYTIC NO-NO2 ANALYZER	T-API	T200UP	96	Serviceable/In Use	PE 0035
		PARTISOL 2025i	TEI	2025I	2025IW209101509	Serviceable/In Use	5-145
		PARTISOL 2025i	TEI	2025I	2025i	Serviceable/In Use	5-145
OP-9	853237	O3 PRIMARY	TEI	49IPS	1152610015	Serviceable/In Use	2-220
OP-10	853238	O3 PRIMARY	TEI	49IPS	1152610016	Serviceable/In Use	2-220
DL-63	852699	DATALOGGER	ESC	8872	0507	Serviceable/In Use	2-220
DL-64	852700	DATALOGGER	ESC	8872	0508	Serviceable/In Use	2-220
DL-65	852701	DATALOGGER	ESC	8872	0509	Serviceable/In Use	8-08
DL-60	852468	DATALOGGER	ESC	8872	0480	Serviceable/In Use	PE 0035
PF-12		PARTISOL 2025i	TEI	2025I	2025iW209101509	Serviceable/In Use	MF 1016C
PF-11		PARTISOL 2025i	TEI	2025I	2025i	Serviceable/In Use	MF 1016S
MX-22	854236	CALIBRATOR	T-API	T700U	257	Serviceable/In Use	PE 0035
BE-5	854895	BAROMETER-ALTIMETER	NOVALYNX	230-M202	1621000034	Serviceable/In Use	5-139
BE-6	854896	BAROMETER-ALTIMETER	NOVALYNX	230-M202	1621000035	Serviceable/In Use	5-139
BE-7	854897	BAROMETER-ALTIMETER	NOVALYNX	230-M202	1621000036	Serviceable/In Use	5-139
BE-8	854898	BAROMETER-ALTIMETER	NOVALYNX	230-M202	1621000037	Serviceable/In Use	5-139
	854899	O3 ANALYZER	TEI	49I	1162000025	Serviceable/In Use	5-139

Orange County						
Location	**Manufacturer/Model No.**	**Serial No.**	**Property ID**	**Status**	**Acquisition Date**	**Condition**
Winter Park	Thermo 49iPS	702620339	731316	Backup	2/6/2007	Good
Winegard	Thermo 49iPS	1336460151	749643	Backup	2/5/2014	Good
Winter Park	Thermo 49iPS	1007441118	970874	Active	3/29/2010	Good
Winegard	Thermo 49iPS	1151380003	756626	Active	7/7/2015	Good
Winter Park	Thermo 49iPS	1170050011		Acquisition Testing	2/1/2017	Good
Winter Park	Thermo 49iPS	1170050012		Acquisition Testing	2/3/2017	Good
Winter Park	Thermo 49i	1170050010		Acquisition Testing	2/3/2017	Good
Winter Park	Thermo 49i	1326659026	750204	Active	9/30/2013	Good
Winter Park	Thermo 49i	1336460150	749642	Backup	2/5/2014	Good
Winegard	Thermo 49i	702620337	731515	Active	2/6/2007	Good
Winegard	Thermo 49i	702620338	731314	Backup	2/6/2007	Good
Near Road	Thermo 48i	526912537	728820	Backup	10/13/2005	Good
Winter Park	Thermo 48i	526912538	728821	Active	10/13/2005	Good
Storage (Main Office)	Thermo 48i	1500163900	755736	In Maintenance	2/24/2015	Good
Near Road	Thermo 48i	1500163901	755737	Active	2/24/2015	Good
Winter Park	Thermo 48i	1170050008		Acquisition Testing	1/31/2017	Good
Winter Park	Thermo 48i	1170050009		Acquisition Testing	2/1/2017	Good
Winter Park	Thermo 43i	JC1320600867	750205	Backup	9/30/2013	Good
Winter Park	Thermo 43i	607415836	732713	Active	4/3/2006	Good
Storage (Main Office)	Thermo 42i	1106147374	741524	In Maintenance	2/24/2011	Good
Near Road	Thermo 42i	523512655	728819	Active	10/13/2005	Good
Winter Park	Thermo 42i	525812398	728357	Backup	8/25/2005	Good
Winter Park	Thermo 42i	1500163902	755738	Backup	2/24/2015	Good
Winter Park	Thermo 42i	1336460152	751896	Active	1/28/2014	Good
Winter Park	Thermo 111	1227254852	747312	Backup	10/16/2012	Good
Storage (Warehouse)	Thermo 111	111-22824-207	911591	Marked for Surplus	7/1/1988	Good

Winter Park	Thermo 111	1500163903	755740	Active	2/24/2015	Good
Near Road	Thermo 111	1326659028	750203	Active	9/30/2013	Good
Winter Park	Thermo 146i	926137960	739038	In Maintenance	10/12/2009	Good
Winter Park	Thermo 146i	1007441117	970873	Active	3/15/2010	Good
Near Road	Thermo 146i	1500163897	755739	Active	2/24/2015	Good
Winter Park	Thermo 146i	1227254853	747329	Backup	10/16/2012	Good
Winter Park	Agilaire 8872	550	761065	Active	3/15/2016	Good
Near Road	Agilaire 8872	551	761066	Active	3/15/2016	Good
Winegard	Agilaire 8872	548	761067	Active	3/15/2016	Good
Storage (Main Office)	Agilaire 8872	549	761068	Backup	3/15/2016	Good
Thermo	Thermo 5014_i	CM13351002	750381	In Maintenance	10/4/2013	Good
Winter Park	Thermo 5014_i	CM14291008	755028	Active (PM10)	10/22/2014	Good
Winter Park	Thermo 5014_i	CM14291007	755027	Active (PM2.5)	10/22/2014	Good
Near Road	Thermo 5014_i	CM16131005	762294	Active (PM2.5)	9/15/2016	Good
Near Road	Vaisala HM40	K4730049	N/A	Active	NA	Good
Winter Park	Vaisala HM40	L1720058	N/A	Active	NA	Good
Winter Park	BioCal Definer 220-L	111132	730582	Active	7/25/2007	Good
Winter Park	BioCal Definer 220-L	141461	755247	Backup	5/6/2015	Good
Winter Park	BioCal Defender 530-H	137288	756338	Active	5/6/2015	Good
Winter Park	BioCal Defender 530-H	139494	755246	Backup	5/6/2015	Good
Near Road	Chinook Streamline Pro M	C150101	755697	Active	2/26/2015	Good
Winter Park	Chinook Streamline Pro S	C150102	755698	Active	2/26/2015	Good
Near Road	Dwyer Manometer	N5OZ	N/A	Active	NA	Good
Winter Park	Dwyer Manometer	N03AA0213007	N/A	Active	NA	Good
Winter Park	BGI VSCC	180514-25	756640	Active	8/12/2015	Good
Winter Park	BGI VSCC	070614-166	756638	Active	8/12/2015	Good
Winter Park	BGI VSCC	270711-31	756639	Active	8/12/2015	Good
Winter Park	BGI VSCC	138712		Active		Good
Near Road	BGI VSCC	221112-180		Active		Good

Winter Park	Novalynx Barometer	1616000018	756329	Active	5/11/2016	Good
Winegard	Novalynx Barometer	1616000019	756330	Active	5/11/2016	Good
Near Road	Novalynx Barometer	1616000020	756331	Active	5/11/2016	Good
Storage (Main Office)	Novalynx Barometer	1616000021	756328	Backup	5/11/2016	Good
Winter Park	Control Comp. Digital Thermometer	L616301	N/A	Active	NA	Good
Winter Park	Fisher Thermometer	T-113	N/A	Active	NA	Good
Winter Park	Fisher Thermometer	13307418	N/A	Active	NA	Good
Winter Park	Fluke Meter	65560195	N/A	Active	NA	Good
Near Road	Fluke Meter	31360435	N/A	Active	5/15/2015	Good
Winter Park	Princo. Nova	N-701	N/A	Marked for Surplus	NA	Good
Winter Park	Control Comp. Clock	TC-01	N/A	Active	NA	Good
Winegard	Control Comp. Clock	TC-02	N/A	Active	NA	Good
Near Road	Control Comp. Clock	TC-03	N/A	Active	NA	Good
Main Office	Control Comp. Clock	TC-05	N/A	Active	NA	Good
Winter Park	Fisher Scientific Sonicator	1202404	N/A	Active	NA	Good
Winter Park	Juniper ethernet switch EX2200	CW0214282125	755734	Active	11/22/2014	Good
Storage (Warehouse)	Juniper ethernet switch EX2200	CW0214191482	756546	In Storage - Backup	6/30/2015	Good
Near Road	Juniper ethernet switch EX2200	CW0214191788	756547	Active	6/30/2015	Good
Winter Park	Cisco ASA 5505	NA	NA	Active	NA	Good
Winegard	Cisco ASA 5505	NA	NA	Active	NA	Good
Near Road	Cisco ASA 5505	NA	NA	Active	NA	Good
Winter Park	Cisco ASA 5505	NA	NA	Backup	NA	Good
Winegard	Cisco ASA 5505	NA	NA	Backup	NA	Good
Winegard	Emerson Network Power backup (Liebert GXT4 UPS 120V)	1510100421AFBB3	757682	Active	7/1/2015	Good
Winter Park	Emerson Network Power backup (Liebert GXT4 UPS 120V)	1512900408AFBA3	757230	Active	8/26/2015	Good

Winter Park	Vizio Monitor E550i-B2	LWZ2PPAQ3802232	756664	Active	6/24/2015	Good
Winter Park	Dell Optiplex 9020	GME97Y88	755364	Active	3/2/2015	Good
Winegard	Dell Optiplex 9020	GMEP7Y99	755905	Active	4/21/2015	Good
Near Road	Dell Optiplex 9020	GMEP7Y110	756467	Active	9/17/2015	Good
Main Office	Dell Optiplex 9020	GMEP77101	755906	Active	4/21/2015	Good
Winter Park	Panasonic Toughbook CF19	GMEPWL19	746356	Active	8/20/2012	Good
Near Road	Dell Latitude E7450	GME97ZL01	757095	Active	9/4/2015	Good

Palm Beach County					
Asset #	**Manufacturer**	**Description**	**Acquisition Date**	**Serial #**	**Condition**
K02660000000000	Bios International	BIOS DC1 - CALIBRATOR KIT W/CELL&PRINTER	34066	B4702001144	FAIR
J08043000000000	Thermo Environmental	ZERO AIR SUPPLY MDL 111	33521	111-34901-248	FAIR
J03566000000000	Thermo Environmental	ZERO AIR SUPPLY III	33494	111-34508-248	FAIR
G01788000000000	Tisch Environmental, Inc	SAMPLER SYSTEM, PUF GPS-1	33260	13905	FAIR
F07435000000000	Andersen Sampler, Inc	SAUV-16H HIGH VOLUME AIR SAMPL (HEAD)	32645	10-16	POOR
F07265000000000	Andersen Sampler, Inc	AIR SAMPLER,MDL.PM-10	32626	68-13	POOR
101971800000000	Dell	Dell Power Edge Server, T150	42229	24SHT52	GOOD
101971560000000	Teledyne/API	NOX ANALYZER	42062	8181	GOOD
101971550000000	Thermo Environmental	PHOTOMETRIC OZONE ANALYZER 49i UV	42052		GOOD
101920710000000	Thermo Environmental	PARTISOL 2025i SEQUENTIAL AIR SMAPLER	41393	2025i-2036671303	GOOD
101887330000000	Environics	OZONE TRANSFER STANDARD SERIES 6103	40130	4594	GOOD
101887320000000	Environics	OZONE TRANSFER STANDARD SERIES 6103	40130	4595	GOOD
101871770000000	Teledyne/API	NOX ANALYZER	40879	205	GOOD
101826130000000	Met One Instrument	BETA ATTENUALION MASS MONITOR W/POWER	40521	K18547	GOOD
101759340000000	Thermo Environmental	PHOTOMELRIC OZONE ANALYZER, 491I UV	39909	0908635705	GOOD
101759260000000	Met One Instrument	BETA-ATTENTUATION MASS MONITOR,POWER SUPPLY	39867	H8630	GOOD
101759250000000	Thermo Environmental	UV PHOTOMETIC OZONE (03) PRIMARY SOURCE CALIBRATOR	39867	0906335234	GOOD
101747580000000	Agilaire	DATA SYSTEM CONTROLLER, AMBIENT ESC MODEL 8832	39720	A2821K	GOOD
101747450000000	Thermo Environmental	421I CHEMILUMINE NO-NO2 NOX ANALYZER	39569	0816130476	GOOD
101747430000000	Thermo Environmental	PARTIED PLUS 2025 SEQUENLIAL AIR SAMPLER	39615	2025B2221502805	GOOD
101723960000000	Thermo Environmental	SULFER DIOXIDE ANALYZER, 43I PULSED	39363	CM07350001	GOOD
101723950000000	Bios International Corporation	DEFINER 220 HIGH FLOW; RANGE:300-30,000 SCCM	39355	112349	GOOD
101723940000000	Met One Instrument	BETA ALLENUATION MASS MONITOR, BAM1020 2.3FEM	39356	G6214	GOOD

101679970000000	Teledyne/API	TELEDYNE-API MODEL 703E UV PHOTOMETRIC MONITOR	39021	0058	GOOD
101679960000000	Environics	CALIBRATION SYSTEM SERIES 6100	39055	3885	GOOD
101679900000000	Thermo Environmental	GAS FILTER CORELATION CO ANALYZER MEASUREMENT	39108	0703320497	GOOD
101679750000000	Thermo Environmental	UV PHOTOMETRIC OZONE ANALYZER	39183	0711721591	GOOD
101641690000000	Environics	CALIBRATION SYSTEM 6100	38972	3830	GOOD
101641080000000	Environics	MULTI-GAS CALIBRATION SYSTEM	38692	3702	GOOD
101641060000000	Bios International Corporation	HIGH FLOW 500-50,000	38686	106379	GOOD
101641050000000	Bios International Corporation	LOW FLOW 5-500 SCCM	38686	105982	GOOD
101641040000000	Agilaire	AMBIENT DATA LOGGER ESC, MODEL 8832	38684	A1201	GOOD
101612840000000	Thermo Environmental	42I CHEMILUMINSCENT NOX ANALYZER	38672	0601213919	GOOD
101612830000000	Thermo Environmental	49I OV PHOTOMETRIC OZONE ANALYZER	38672	0601213850	GOOD
101612440000000	Thermo Environmental	PARTISOL PLUS PM 2.5	39084	99-008806/21927	GOOD
101612270000000	Thermo Environmental	TEC0111-001 ZERO AIR SUPPLY	38530		GOOD
101612260000000	Thermo Environmental	TEC0111-001 ZERO AIR SUPPLY, Compressor/Pump	38530	0517912030	GOOD
101612240000000	Agilaire	DATA LOGGER, ESC MODEL 8832 AMBIENT	38530	A1031	GOOD
101612230000000	Agilaire	DATA LOGGER, ESC MODEL 8832 AMBIENT	38530	A1028	GOOD
101612220000000	Agilaire	DATA LOGGER, ESC MODEL 8832 AMBIENT	38530	A1030	GOOD
101612210000000	Agilaire	DATA LOGGER, ESC MODEL 8832 AMBIENT	38530	A0633	GOOD
101553730000000	Thermo Environmental	CORRELATION CARBON MONOXIDE ANALYZER, GAS FILTER	37994	335203744	GOOD
101439180000000	Thermo Environmental	SQUENTIAL SAMPLER 2025	37657	2025B215-800204	GOOD
101358780000000	Thermo Environmental	TECO 111-001 ZERO AIR SUPPLY	36101	11161757-333	FAIR
101358770000000	Thermo Environmental	TEC0111-001 ZERO AIR SUPPLY	36101	11161759-333	GOOD
101350160000000	Sartorius	ANALYTICAL FILTER WEIGHT BALNC	36797	12008133	FAIR
101350090000000	BGI Inc	PUMP PZM-200 SAMPLING SYSTEM	36815	1662	POOR
101985930000000	Thermo Environmental	TEI 5014i Continuous Ambient Particulate Monitors	42627	CM16321022	GOOD
101985920000000	Thermo Environmental	TEI 5014i Continuous Ambient Particulate Monitors	42627	CM16321023	GOOD
101985940000000	Mesa Laboratories	Tetra Cal	42627	149651	GOOD

101986080000000	Thermo Environmental	Thermo Environmental Instrument 146i	42643	1162220065	GOOD
	Thermo Environmental	Thermo Environmental Instrument T111	42643		GOOD

Pinellas County							
Equipment Type	**Model**	**Manufacturer**	**Age**	**Condition**	**Est Repl Cost**	**Year of Repl.**	**Comments/ location**
Data Logger	8872	Agilaire	3	Good	6800	2025	Oakwood site
Data Logger	8872	Agilaire	3	Good	6800	2025	E Lake site
Data Logger	8872	Agilaire	3	Good	6800	2025	Clearwater site
Data Logger	8872	Agilaire	3	Good	6800	2025	Derby lane site
Data Logger	8872	Agilaire	3	Good	6800	2025	Gateway site
Data Logger	8872	Agilaire	3	Good	6800	2025	Azalea site
Data Logger	8872	Agilaire	2	Good	6800	2025	Sawgrass Park
Data Logger	8816	ESC	14	Good	7200	na	For Data Back-up/ storage
Data Logger	8816	ESC	14	Good	7200	na	For Data Back-up/ storage
Data Logger	8816	ESC	13	Good	7200	na	For Data Back-up / storage
Data Logger	8816	ESC	20	Good	na	NA	Back-up/ storage
Data Logger	8816	ESC	19	Good	na	NA	Back-up/storage
Data Logger	8816	ESC	20	Good	na	NA	Back-up/storage
NO2 analyzer	500T U	API/Teledyne	2	Good	27500	2023	Sawgrass Park
NOX Analyzer	42-I	Thermo Env	7	Good	9700	2019	Azalea site
CO Analyzer	48-C	Thermo Env	13	Fair	8600	2016	Gateway/replace yr 2016 (back up)
CO Analyzer	300 U	API/Teledyne	2	Good	13600	2023	Sawgrass Park
CO analyzer T300	T300	API/Teledyne	1	Good	9100	2024	Gateway
O3 Analyzer	400E	API/Teledyne	6	Good	7500	2020	E Lake site
O3 Analyzer	400E	API/Teledyne	6	Good	7500	2020	Clearwater site
O3 Analyzer	49-I	Thermo Env	8	Good	8000	2019	Azalea site (back up)
O3 Analyzer	400E	API/Teledyne	6	Good	7500	2020	back up
O3 Prim. Std	703E	API/Teledyne	7	Good	11000	2020	Azalea site
O3 Prim. Std	703E	API/Teledyne	3	Good	11000	2024	Clearwater site
O3 Prim. Std	703E	API/Teledyne	3	Good	11000	2024	E Lake site
O3 Prim. Std	703E	API/Teledyne	3	Good	11000	2024	back up
SO2 Analyzer	43-C	Thermo Env	16	Fair	9500	2016	Derby Lane site (back up)
SO2 Analyzer	43-C	Thermo Env	15	Fair	9500	2016	Oakwood site (back up)

zero air system	70H	API/Teledyne	2	Good	7500	2023	Sawgrass Park
Dial-A-Volt	DAS47AL	General Resistance	17	Good	1200	2018	DOC
DAHS CPU	na	ASUS	3	Good	800	2019	Air Vision Computer
Aethalometer	633	Teldyne	2	Good	30400	2023	Sawgrass Park
PM-10 Sampler	G-1200	Gen Metals	28	Fair	7500	N/A	Back-up
PM-10 Sampler	G-1200	Gen Metals	28	Good	7500	2018	Woodlawn site
PM-10 Sampler	G-1200	Gen Metals	28	Good	7500	2018	Azalea Park
PM-10 Sampler	G-1200	Gen Metals	24	Good	7500	2018	East Lake Site
PM-10 Sampler	G-1200	Gen Metals	24	Good	7500	2018	Motorpool
PM-10 Sampler	G-1200	Gen Metals	24	Good	7500	2018	Motorpool
PM-10 Sampler	G-1200	Gen Metals	24	Good	7500	2018	Skyview
Gas Calibrator	6100	Environics	4	Good	9500	2025	Oakwood site
Gas Calibrator	6103	Environics	2	Good	11000	2015	Derby Lane site
Gas Calibrator	6100	Environics	2	Good	11000	2018	Sawgrass Park
Gas Calibrator	6103	Environics	2	Good	11000	2015	back up
Calibrator	701	API/Teledyne	2	Good	23500	2023	Sawgrass Park
Mass Flow Meter	NALL	Hastings	24	Good	2500	NA	Spare
Mass Flow Meter	HBM-1A	Hastings	34	Fair	1500	N/A	storage
Mass Flow Meter	40/HFM-200	Hastings	18	Fair	2000	N/A	storage
DryCal	DCLT 500	Bios	18	Good	1100	2017	Lab
DryCal	DCLT 20K	Bios	9	Good	1100	2017	Lab
Analytical Balan.	AC-120-SI	Sartorius	23	Fair	N/A	N/A	Back-up
Analytical Balan.	MSE-124S	Sartorius	7	Good	3500	2020	Lab
Mercury Baro.	N/A	Princo	41	Good	500	2017	DOC
Drying Oven	25EG	Scientific Prod.	18	Good	800	2018	DOC
Shelter	8 X 12	Coastal	19	Good	10000	2018	Derby Lane
Shelter	N/A	N/A	32	Fair	7500	na	CW site, replacem.depends on City of Cl.
Shelter	N/A	Adv. Modular	27	Fair	7500	NA	Gateway
Shelter	10 x 16	GE Capitol	14	Good	1100	2020	East Lake Site
Shelter	10 x 12	Robin Builders	18	Good	9000	2020	Skyview

Shelter	10 x 16	Robin Builders	18	Fair	12000	2020	Azalea Park
Shelter	N/A	N/A	29	Fair	7500	2020	Oakwood site
Shelter	na	na	2	Good	27000	na	Sawgrass Park
Shelter	N/A	Adv. Modular	27	Fair	7500	NA	Spare (at Fleet)
Wind System	5305	RM Young	2	Good	1100	2017	Elake
Wind System	5305	RM Young	6	Good	1100	2017	Azalea Site
Wind System	5305	RM Young	2	Good	1100	2017	Elake
Wind System	5305	RM Young	6	Good	1100	2017	Azalea Site
Wind Speed Cal.	18801	RM Young	19	Good	1000	NA	back up
Wind Tower	10 Meter	Aluma Tower	19	Good	2000	2022	Azalea Site
Wind Tower	10 Meter	Aluma Tower	15	Good	2000	2026	Installed at Skyview- 12/04
Wind Tower	10 Meter	Aluma Tower	27	Fair	2000	2018	Elake
Wind Tower	10 Meter	Aluma Tower	2	Good	4100	2023	Sawgrass Park
Data Logger	8872	Agilaire	2	Good	6800	2025	Skyview
PM-2.5 Sequential Sampler	2025	R & P	9	Good	12000	2017	AZ Official
PM-2.5 Sequential Sampler	2025	R & P	8	Good	12500	2019	AZ Colocated
PM-2.5 Sequential Sampler	2025	R & P	8	Good	12500	2019	Sandy Lane
Computer(2) Notbooks	2016	ASUS	1	Good	300	na	operators
Computer - Notebook	Eee PC 900HA	ASUS	8	Good	300	2016	operator/back up
PM-2.5 Continuous Monitor	1400 a/b	TECO (R & P)	6	Good	18000	2020	Azalea
PM-2.5 Continuous Monitor	1405	R & P	1	Good	23000	2016	E Lake Tarpon
PM-2.5 Aethalometer	633	TAPI	3	Good	26800	2024	NATTS
PUF Sampler	TE 100bl	Tisch	9	Good	4000	na	NATTS
PM-10 Sampler (metals)	G-1200	Gen Metals	24	Good	4500	2018	NATTS
Data Logger	8872	Agilaire	1	Good	7800	2025	Back up
zero air system	70H	API/Teledyne	1	Good	7500	2023	Azalea
NO2 analyzer 42I	42i	Thermo Env	1	Good	15000	2024	Azalea

Ozone analyzer T400	T400	API/Teledyne	1	Good	8600	2024	Azalea
SO2 analyzer 43i	43i	Thermo Env	1	Good	12500	2024	Derby Lane
SO2 analyzer 43i	43i	Thermo Env	1	Good	12500	2024	Oakwood
Bios dry call hi conc	Defender 510	Mesa Labs	1	Good	1500	2024	Lab
Bios dry call Low conc	Defender 510	Mesa Labs	1	Good	1500	2024	Lab
CO analyzer T300	T300	API/Teledyne	1	Good	9100	2024	Gateway
O3 anaylzer T400	T400	API/Teledyne	1	Good	8100	2024	Azalea
Wind tower	10 Meter	Aluma Tower	1	Good	4100	2023	back up
Wind instrument	5305	RM Young	1	Good	1100	2017	back up
PM-10 Sampler (metals)	G-1200	Gen Metals	24	Good	4500	2018	replacement NATTS
PM10 Continous	na				na	na	replacement to be determine

Sarasota County								
Site	**Manufacturer**	**Model**	**Pollutant**	**Serial #**	**Acquisition Date**	**Condition**	**Status**	**Anticipated Replacement Date**
Paw Park	Thermo	49i	Ozone	CM09190034	2009	Good		2019
Paw Park	Thermo	49i-PS	Ozone	0916736286	2009	Good		2019
Paw Park	Thermo	TEOM 1405	PM10	1405A233811512	2016	Good		2026
Paw Park	Teledyne	T700	NOx	670	2013	Good		2023
Paw Park	Teledyne	T200	NOx	776	2013	Good		2023
Paw Park	Teledyne	T701	Zero Air	64	2014	Good		2024
Paw Park	Agilaire	8872	Data Logger	0335	2014	Good		2024
Lido	Thermo	49i	Ozone	1162290005	2016	Good		2026
Lido	Teledyne	703e	Ozone	276	2010	Good		2020
Lido	Agilaire	8872	Data Logger	0334	2014	Good		2024
Jackson	Thermo	TEOM 1405	PM2.5	1405A202450809	2008	Good		2018
Jackson	Thermo	49i	Ozone	1426962861	2014	Good		2024
Jackson	Thermo	49i-PS	Ozone	1426962860	2014	Good		2024
Jackson	Agilaire	8872	Data Logger	0184	2014	Good		2024
Lido	RM Young	05103VP	Wind	WM80811		Fair		N/A
Paw Park	RM Young	05103VP	Wind	WM58043		Fair		N/A
Jackson	RM Young	05103VP	Wind	WM58190		Fair		N/A
Bee Ridge	R&P	2025i	PM2.5	2025I207091410	2015	Good		2025
Bee Ridge	R&P	2025i	PM2.5	2025I205681402	2014	Good		2024
Bee Ridge	R&P	TEOM 1400	PM2.5	140AB267800706	2007	Good		2017
Office	Thermo	111	Zero Air	0427408888	2004	Fair		N/A
Office	Thermo	111	Zero Air	0326802150	2004	Fair	back-up	N/A
Office	ESC	8816	Data Logger	5072	2004	Good		N/A

Office	ESC	8816	Data Logger	2004A	2004	Good		N/A
Office	ESC	8816	Data Logger	2004B	2004	Good		N/A
Office	ESC	8816	Data Logger	2004C	2004	Good		N/A
Office	Agilaire	8872	Data Logger	0542	2016	Good	back-up	2026
Office	Thermo	49c-PS	Ozone	49CPS-77959-387	1998	Fair	back-up	N/A
Office	Thermo	49c-PS	Ozone	0427408886	1998	Fair	back-up	N/A
Office	Thermo	49c	Ozone	49C-77958-387	1998	Fair	back-up	N/A
Office	Teledyne	400e	Ozone	2529	2010	Good	back-up	2020
Support Equipment	BIOS Defender 520	N/A	N/A	134978	2014	Good		N/A
Support Equipment	BIOS Defender 520	N/A	N/A	133911	2014	Good		N/A
Support Equipment	Dwyer manometer	N/A	N/A	SAR1		Fair		N/A
Support Equipment	Dwyer manometer	N/A	N/A	SAR2		Fair		N/A
Support Equipment	Streamline FTS	N/A	N/A	011218		Fair		N/A
Support Equipment	Streamline FTS	N/A	N/A	020379		Fair		N/A
Support Equipment	Streamline FTS	N/A	N/A	981014		Fair		N/A
Support Equipment	Streamline MultiCal Pro	N/A	N/A	M080505		Good		N/A
Support Equipment	Fluke 85III	N/A	N/A	83490051		Good		N/A
Support Equipment	Beckman 330B	N/A	N/A	10912039		Fair		N/A
Support Equipment	Fluke Model 8050A	N/A	N/A	3200824		Fair		N/A

Support Equipment	LabCorp ATX	N/A	N/A	216		Good		N/A
Support Equipment	LabCorp ATX	N/A	N/A	217		Good		N/A
Support Equipment	LabCorp ATX	N/A	N/A	161		Good		N/A
Support Equipment	LabCorp ATX	N/A	N/A	210		Good		N/A
Support Equipment	LabCorp ATX	N/A	N/A	188		Good		N/A
Support Equipment	LabCorp ATX	N/A	N/A	187		Good		N/A
Support Equipment	LabCorp ATX	N/A	N/A	166		Good		N/A
Support Equipment	Omega Digicator	N/A	N/A	5013974		Fair		N/A
Support Equipment	Electro-Thermo	N/A	N/A	C308299		Poor		N/A
Support Equipment	Oakton	N/A	N/A	172450		Good		N/A
Support Equipment	Fisher Scientific	N/A	N/A	1055971		Fair		N/A
Support Equipment	Fisher Scientific	N/A	N/A	98160612		Fair		N/A
Support Equipment	Streamline MultiCal Pro	N/A	N/A	T080505		Good		N/A
Support Equipment	Control Co 4039CC	N/A	N/A	90872979		Fair		N/A
Support Equipment	Control Co 4039CC	N/A	N/A	90872982		Fair		N/A
Support Equipment	Control Co	N/A	N/A	90884617		Fair		N/A
Support Equipment	Control Co 4373	N/A	N/A	111435384		Fair		N/A
Support Equipment	Control Co 4373	N/A	N/A	111491065		Fair		N/A
Support Equipment	Control Co 4373	N/A	N/A	111491091		Fair		N/A

Support Equipment	NO2 Paw 50.0 ppm	N/A	N/A	EB-0041740		Good		2020
Support Equipment	Omega DPI-740	N/A	N/A	74002074		Fair		N/A