

Florida Department of Environmental Protection



2025 Annual Air Monitoring Network Plan Addendum

*Sites/Monitors Discontinuance
in Broward and Pinellas Counties*

**Division of Air Resource Management
Office of Air Monitoring
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1.0 Introduction

This network plan addendum provides information to the United States Environmental Protection Agency (USEPA) Region 4 Air and Radiation Division to approve the removal of monitoring sites/monitors in Broward and Pinellas Counties. The Florida Department of Environmental Protection (DEP) is requesting shutdown of the sites/monitors listed in Table 1.1. The monitors/sites meet several scenarios defined in the USEPA's Ambient Air Monitoring Network Assessment Guidance (AAMNAG) and 40 CFR 58.14(c). 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 National Ambient Air Quality Standards (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 that is expected to remain in attainment; and
- The monitor has not measured violations of the NAAQS in the last five years.
- The monitor is not the highest design value site within the County or Metropolitan Statistical Area (MSA).

Requests for discontinuation may also be made on a case-by-case basis if discontinuance does not compromise data collection needed for implementation of a NAAQS and if the requirements for 40 CFR Part 58, Appendix D continue to be met.

The shutdown of these sites/monitors will allow more flexibility of resources and for greater emphasis to be placed on other criteria pollutants.

Table 1-1: Sites/Monitors Shutdown

AQS Site #	County	Site Name	Type	Pollutants	Area Attainment?	Modification
12-011-0033	Broward	Vista View Park	SLAMS	O ₃ , PM _{2.5}	Yes	Shutdown
12-011-5005	Broward	Coconut Creek	SLAMS	PM _{2.5} , PM ₁₀	Yes	Shutdown
12-103-0012	Pinellas	Woodlawn	SLAMS	PM ₁₀	Yes	Shutdown
12-103-5003	Pinellas	Oakwood	SLAMS	SO ₂	Yes	Shutdown

2.0 Sites/Monitors Shutdown

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, PM₁₀, SO₂, lead, or NO₂ 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.

A summary of the evaluation DEP performed for these monitors using EPA's AAMNAG document and 40 CFR 58.14(c) is provided below in Table 2.1. Additional data analysis and site comparisons can be found in the tables and figures listed in the Comments section of Table 2.1.

Table 2-1: Site and Monitor Evaluation Summaries for Discontinuation

AQS Site #	Site Name	Type	Pollutant	Showed Attainment 2020-2024	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
12-011-0033	Vista View Park	SLAMS	Ozone	Yes	No	No	No	No	CLOSE	Table 2-2, Table 2-3, Table 2-4, Table 2-5, Figure 1, Figure 2, Figure 3, Figure 4
12-011-0033	Vista View Park	SLAMS	PM _{2.5}	Yes	Yes	No	No	No	CLOSE	Table 2-7, Table 2.8, and Figure 5
12-011-5005	Coconut Creek	SLAMS	PM _{2.5}	Yes	No	No	No	No	CLOSE	Table 2-6, Table 2-8, and Figure 5
12-011-5005	Coconut Creek	SLAMS	PM ₁₀	Yes	Yes	No	No	No	CLOSE	Table 2-9
12-103-0012	Woodlawn	SLAMS	PM ₁₀	Yes	Yes	No	No	No	CLOSE	Table 2-9
12-103-5003	Oakwood	SLAMS	SO ₂	Yes	Yes	No	No	No	CLOSE	Table 2-10

2.1 Broward County - Vista View Park (AQS # 12-011-0033) Site: Ozone

Broward County anticipates shutting down the Vista View Park (AQS # 12-011-0033) site due to the support structure of the building being compromised. After consulting with the Broward County Construction Management Division, it was determined that repairs to the building were not feasible and total replacement was required.

On September 29, 2024, EPA signed a grant agreement with Broward County to relocate this site within the Miami-Ft. Lauderdale-Miami Beach MSA, to the City of Miramar. Relocating the Vista View Park (AQS# 12-011-0033) site to the Miramar (AQS# 12-011-0036) site was approved in the 2025 Annual Network Plan. Since then, Broward County has proposed shutting down the Vista View Park(AQS# 12-011-0033) site and cancelling the relocation to the Miramar (AQS# 12-011-0036) site, instead reallocating the grant monies awarded on September 29, 2024, to support the PAMS network. The EPA approved the reallocation of the grant money to support PAMS on August 14, 2025.

Additional data analysis and site comparisons were performed to confirm that the ozone concentrations reported from the Vista View Park (AQS # 12-011-0033) site were the lowest reported values in Broward County as well as the Miami-Fort Lauderdale-Palm Beach MSA . These analyses are provided in Table 2-2, Table 2-3, Table 2-4 , Table 2-5, Figure 1, Figure 2, Figure 3, and Figure 4.

Data analysis and site comparisons of the PM_{2.5} data set from Vista View Park (AQS # 12-011-0033) site can be found in section 2.2 of this report.

The Daniela Banu NCore (AQS # 12-011-0034) site, also monitors for ozone and PM_{2.5} and is located approximately 5 miles away from the Vista View Park (AQS # 12-011-0033) site. Due to the close proximity, the network will preserve spatial coverage after the shutdown of the Vista View Park (AQS # 12-011-0033) ozone and PM_{2.5} monitors. Additionally, the minimum network requirements per 40 CFR Part 58, Appendix D will continue to be met if these monitors are shutdown.

Table 2-2: 40 CFR Part 58.14(c) and Ambient Air Monitoring Network Assessment Guidance Calculations for Vista View Park (AQS # 12-011-0033) O₃

AQS Site #	Site Name	Pollutant	Averaging Period	Design Value					\bar{X}	s	t	n	NAAQS	80% of NAAQS	90% Confidence Interval	Pass
				2020	2021	2022	2023	2024								
12-011-0033	Vista View Park	Ozone	8-hr	62	59	59	56	58	58.8	2.16	2.13	5	70	56	60.86	No

Table 2-3 contains the data for the annual average concentrations of the ozone monitors operated in Broward County between 2020 – 2025. Figure 1 provides a graphical comparison of these data. The graph illustrates that the Vista View Park ozone concentrations have been consistently lower during this period.

Table 2-3: O₃ Annual Average Concentration in Parts Per Billion (PPB)

Site	2025*	2024	2023	2022	2021	2020
Vista View Park (12-011-0033)	24*	26	25	23	23	25
Daniela Banu (12-011-0034)	25*	28	26	26	24	24
Pompano Highlands (12-011-2003)	27*	31	28	28	27	27
Dr. Von Mizell-Eula Johnson State Park (12-011-8002)	27*	30	28	27	27	27

**Incomplete data set*

Figure 1: Comparison of Annual Average Concentrations Between Broward County Ozone Monitors

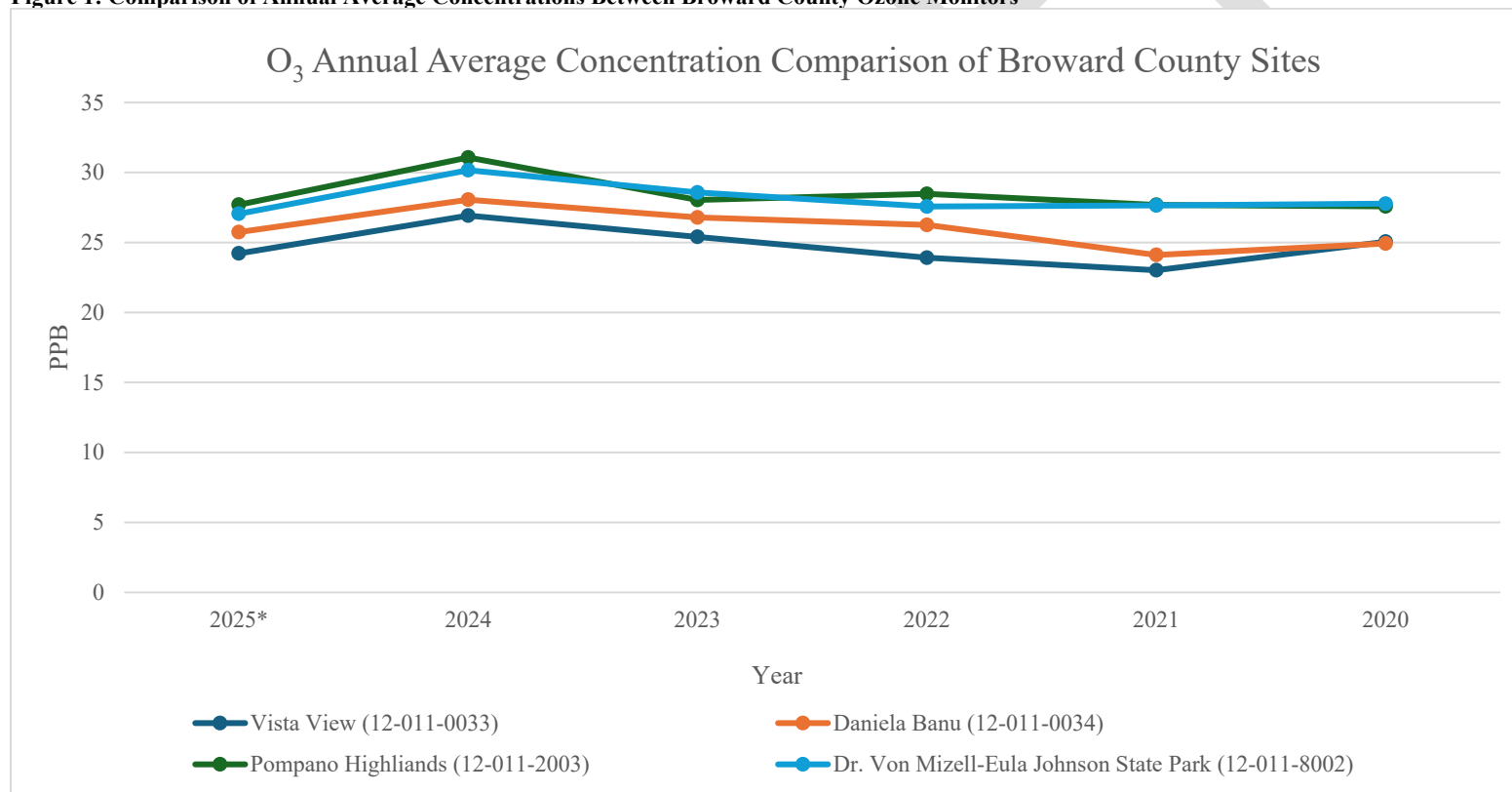


Table 2-4 contains the data for the maximum 8-hour average concentrations of the ozone monitors operated in Broward County between 2020 – 2025. Figure 2 provides a graphical comparison of these data. The graph illustrates that the Vista View Park ozone concentrations have been similar to the other Broward County monitors during this period.

Table 2-4: O₃ Maximum 8-Hour Average Concentration in Parts Per Billion (PPB)

Site	2025*	2024	2023	2022	2021	2020
Vista View Park (12-011-0033)	68	63	67	66	65	68
Daniela Banu (12-011-0034)	66	64	67	70	57	63
Pompano Highlands (12-011-2003)	66	66	60	67	62	63
Dr. Von Mizell-Eula Johnson State Park (12-011-8002)	67	64	68	68	61	63

Figure 2: Comparison of Maximum 8-Hour Average Concentrations Between Broward County Ozone Monitors

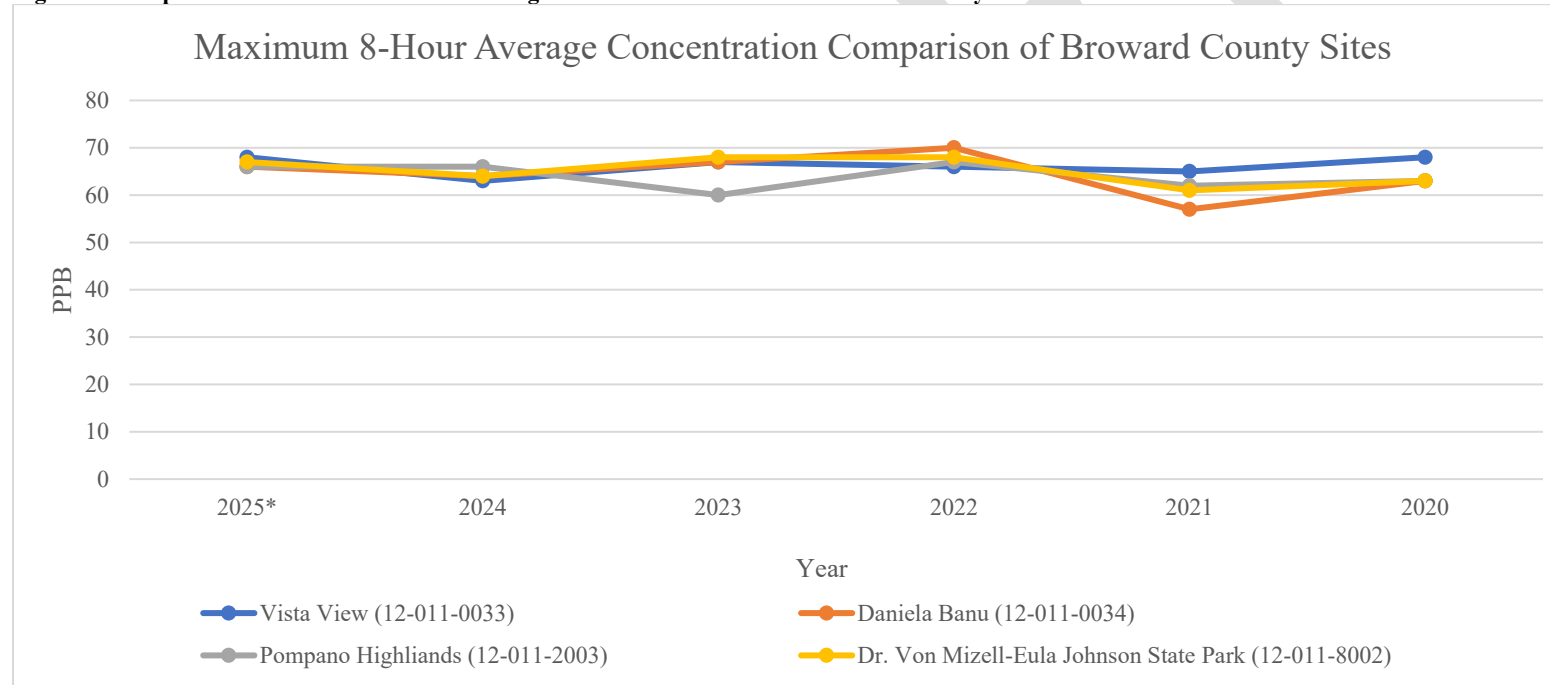


Table 2-5 contains the data for the 4th maximum 8-hour average concentrations of the ozone monitors operated within the Miami-Fort Lauderdale-Palm Beach MSA between 2020 – 2025. Figure 3 provides a graphical comparison of these data. The graph illustrates that the Vista View Park ozone concentrations, with the exception of 2020, have been low to average when compared to the other ozone monitors operated within the Miami-Fort Lauderdale-Palm Beach MSA.

Table 2-5: 4th Maximum 8-Hour Average O₃ Concentrations Between Monitors within the Miami-Fort Lauderdale-Palm Beach MSA

Site	2025*	2024	2023	2022	2021	2020
Vista View Park (12-011-0033)	61	60	58	58	55	67
Daniela Banu (12-011-0034)	61	59	60	60	55	60
Pompano Highlands (12-011-2003)	62	58	54	59	56	57
Dr. Von Mizell-Eula Johnson State Park (12-011-8002)	58	56	59	59	57	59
Rosenstiel (University of Miami) (12-086-0027)	62	62	66	68	58	55
Perdue (12-086-0029)	61	59	64	65	56	60
Lantana Preserve (12-099-0021)	56	55	57	58	56	55
Lamstein Lane (12-099-0022)	60	56	57	54	56	59

Figure 3: Comparison of 4th Maximum 8-Hour Average O₃ Concentrations Between Monitors within the Miami-Fort Lauderdale-Palm Beach MSA

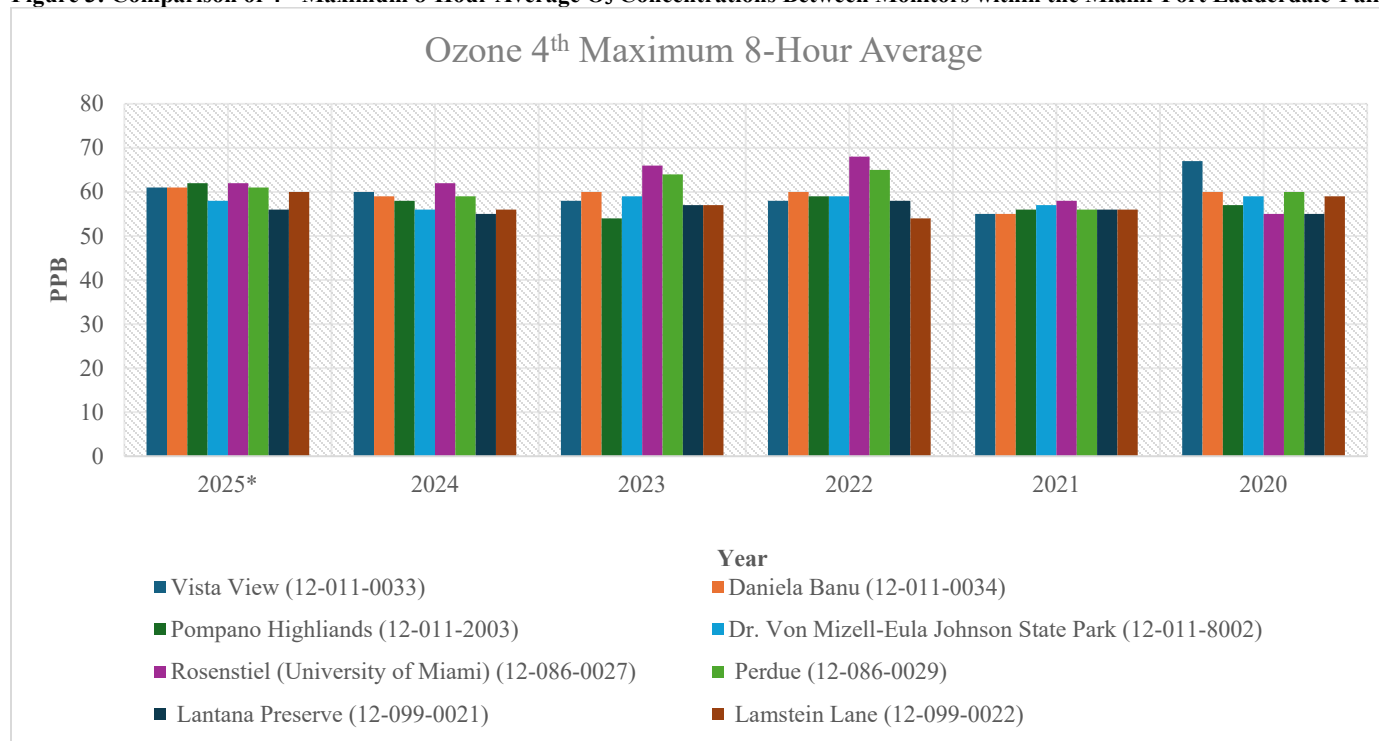
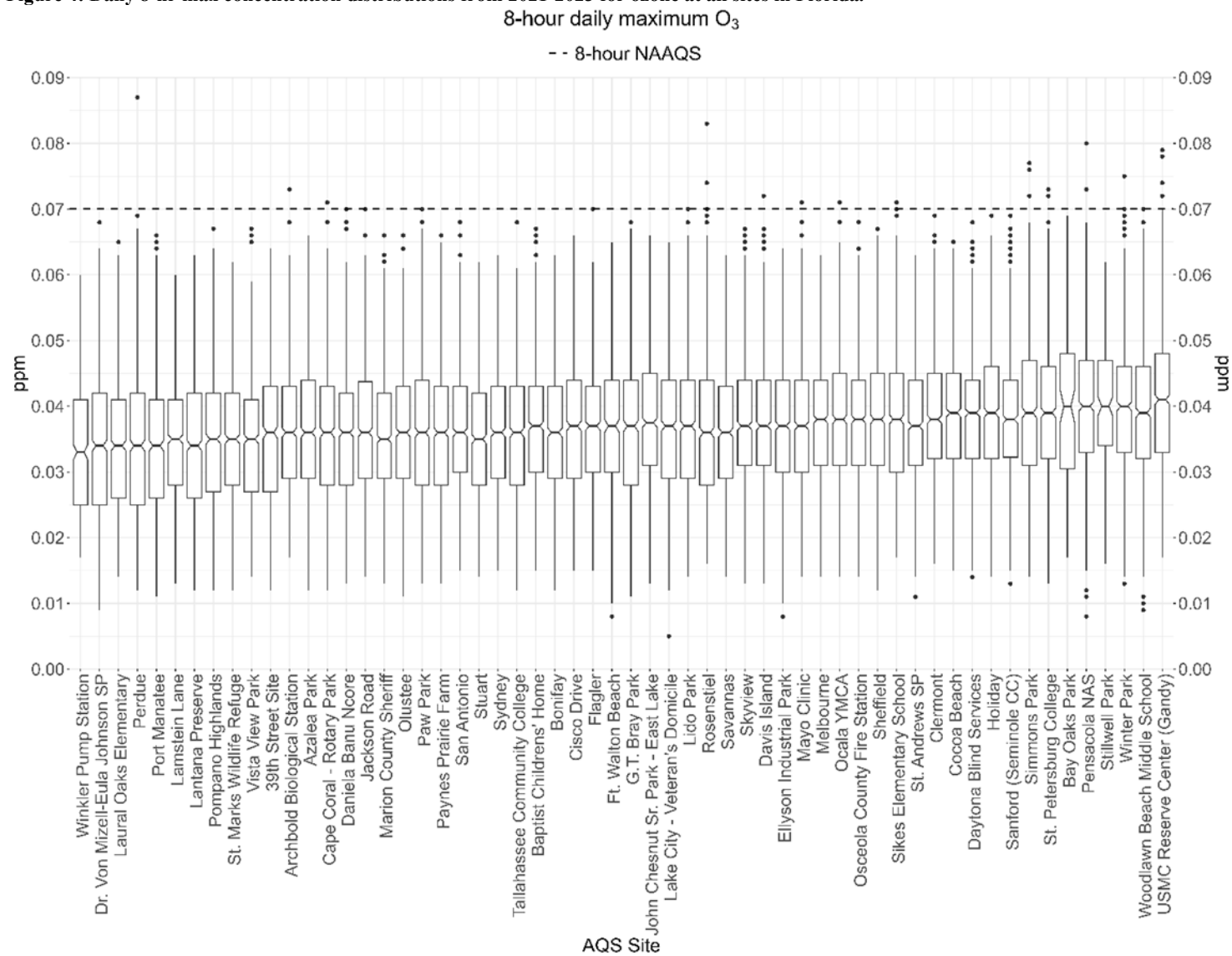


Figure 4, below, provides a comparison of the daily maximum 8-hour average concentrations of the ozone monitors operated within Florida's ambient air monitoring network between 2021 – 2023. The graph, Figure 3 above, illustrates that the Vista View Park ozone concentrations have been low to average when compared to the other ozone monitors operated within Florida's ambient air monitoring network.

Figure 4: Daily 8-hr max concentration distributions from 2021-2023 for ozone at all sites in Florida.



2.2 Broward County - Coconut Creek (AQS # 12-011-5005) Site and Vista View Park (AQS # 12-011-0033) Site: PM_{2.5}

The Coconut Creek (AQS # 12-011-5005) site had complete data sets from 2015 through 2024. The AAMNAG calculations using annual 98th percentile values, annual averages, and design values can be found in Table 2-6.

Data analysis of the PM₁₀ data set from Coconut Creek (AQS # 12-011-5005) site can be found in section 2.3 of this report.

The Vista View Park (AQS # 12-011-0033) PM_{2.5} regulatory monitor began data collection in August 2021. The AAMNAG calculations using annual 98th percentile values, annual averages, and design values can be found in Table 2-7. The 2021 annual average for the Vista View Park (AQS # 12-011-0033) site used a combination of non-regulatory TEOM data, collected from January 2021 through July 2021, and T640 data collected from August 2021 through December 2021. The 2025 data set, although incomplete, was included in these calculations as there is no T640 data prior to 2021. These calculations are found in Table 2-8.

Data analysis and site comparisons of the ozone data set from Vista View Park (AQS # 12-011-0033) site can be found in section 2.1 of this report.

The national ambient air quality standards for PM_{2.5} are: (1) 35 μm^3 for a 24-hour average concentration and (2) 9.0 μm^3 for an annual mean concentration. The 24-hour standard is attained when the 3-year average of the annual 98th percentile value is less than or equal to the 24-hour standard. The annual standard is attained when the 3-year average of the annual means is less than or equal to the annual standard.

Additionally, site comparisons were performed for all PM_{2.5} annual average data sets reported from all monitors in operation in Miami-Fort Lauderdale-Palm Beach MSA. This information can be found in Table 2-8 and Figure 5. The minimum network requirements per 40 CFR Part 58, Appendix D will continue to be met if these monitors are shutdown.

Table 2-6: 40 CFR Part 58.14(c) and Ambient Air Monitoring Network Assessment Guidance Calculations for Coconut Creek (AQS# 12-011-5005) PM_{2.5}

Coconut Creek (AQS# 12-011-5005) PM _{2.5}																			
Pollutant	Averaging Period											\bar{X}	s	t	n	NAAQS	80% NAAQS	90% Confidence Interval	Pass
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024								
PM _{2.5}	Annual 98 th Percentile	9.1*	12	18.9	13	17.3	14.8	17.4	16.4	21.9	16.2	16.43	2.99	1.83	10	35	28	18.1	Yes
PM _{2.5}	Annual Average	5.62	5.77	6.88	6.37	6.93	7.15	7.39	8.4	9.4	7.4	7.13	1.14	1.83	10	9	7.2	7.7	No
PM _{2.5}	Design Value	5.6*	5.7*	6.1*	6.3	6.4	6.2	6.2	6.7	7.5	7.7*	6.55	0.5	1.83	10	9	7.2	6.83	Yes

**Incomplete data set*

Table 2-7: 40 CFR Part 58.14(c) and Ambient Air Monitoring Network Assessment Guidance Calculations for Vista View Park (AQS# 12-011-0033) PM_{2.5}

<i>Vista View Park(AQS# 12-011-0033) PM_{2.5}</i>														
Pollutant	Averaging Period						\bar{X}	s	t	n	NAAQS	80% NAAQS	90% Confidence Interval	Pass
		2021	2022	2023	2024	2025								
PM _{2.5}	Annual 98 th Percentile	17.7*	13.2	15.9	11.5	12*	13.15	1.96	2.13	5	35	28	15.02	Yes
PM _{2.5}	Annual Average	6.39	6.41	7.08	5.3	5.92*	6.22	0.65	2.13	5	9	7.2	6.84	Yes
PM _{2.5}	Design Value	5.6*	5.5*	5.8	5.7	5.9*	5.75	0.07	2.13	5	9	7.2	5.81	Yes

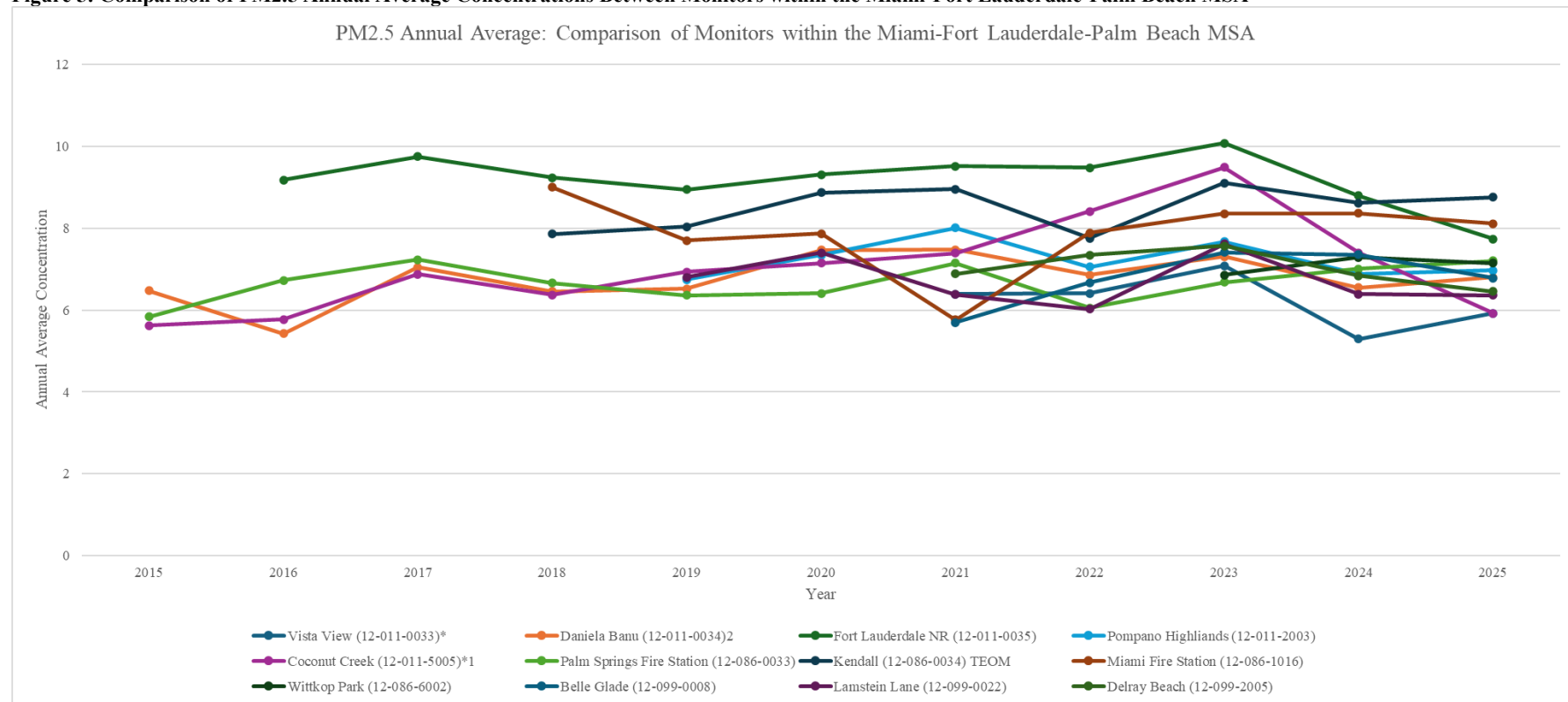
**Incomplete data set*

Table 2-8 contains the PM_{2.5} annual average concentrations between monitors within the Miami-Fort Lauderdale-Palm Beach MSA between 2015 – 2025. Figure 5 provides a graphical representation of this data. The graph illustrates that the Vista View Park PM_{2.5} concentrations have been low when compared to the other PM_{2.5} monitors operated within the Miami-Fort Lauderdale-Palm Beach MSA.

Table 2-8: Annual Average PM_{2.5} ug/m3 LC for Monitors within the Miami-Fort Lauderdale-Palm Beach MSA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Vista View Park (12-011-0033)*	NA	NA	NA	NA	NA	NA	6.39	6.41	7.08	5.3	5.92
Daniela Banu (12-011-0034)²	6.48	5.43	7.05	6.46	6.52	7.47	7.48	6.86	7.31	6.55	6.8
Fort Lauderdale NR (12-011-0035)	NA	9.18	9.75	9.24	8.95	9.31	9.52	9.48	10.08	8.8	7.74
Pompano Highlands (12-011-2003)	NA	NA	NA	NA	6.75	7.35	8.01	7.06	7.67	6.89	6.97
Coconut Creek (12-011-5005)*¹	5.62	5.77	6.88	6.37	6.93	7.15	7.39	8.41	9.49	7.4	5.92
Palm Springs Fire Station (12-086-0033)	5.84	6.73	7.23	6.66	6.36	6.41	7.15	6.05	6.68	7.01	7.21
Kendall (12-086-0034) TEOM	NA	NA	NA	7.86	8.04	8.87	8.96	7.76	9.11	8.62	8.76
Miami Fire Station (12-086-1016)	NA	NA	NA	9	7.7	7.87	5.76	7.89	8.36	8.37	8.11
Wittkop Park (12-086-6002)	NA	NA	NA	NA	NA	NA	NA	NA	6.86	7.29	7.15
Belle Glade (12-099-0008)	NA	NA	NA	NA	NA	NA	5.7	6.67	7.41	7.36	6.78
Lamstein Lane (12-099-0022)	NA	NA	NA	NA	6.8	7.4	6.38	6.03	7.62	6.39	6.36
Delray Beach (12-099-2005)	NA	NA	NA	NA	NA	NA	6.89	7.35	7.57	6.84	6.46

Figure 5: Comparison of PM2.5 Annual Average Concentrations Between Monitors within the Miami-Fort Lauderdale-Palm Beach MSA



*Proposed shutdown

¹ 2015-2018 PM2.5M data

² 2015 PM2.5M data

2.3 Broward County – Coconut Creek (AQS # 12-011-5005) and Pinellas County – Woodlawn (AQS # 12-103-0012) Sites: PM₁₀

Table 2-9 provides the AAMNAG calculations results for the PM₁₀ monitors at both the Coconut Creek site in Broward County and the Woodlawn site in Pinellas County. There were no NAAQS exceedances at these sites during the 2020 – 2024 timeframe and the minimum network requirements per 40 CFR Part 58, Appendix D will continue to be met if the monitors are shutdown.

Data analysis of the PM_{2.5} data set from Coconut Creek (AQS # 12-011-5005) site can be found in section 2.2 of this report.

The Woodlawn (AQS # 12-103-0012) site in Pinellas County is a single pollutant monitoring site. It has been issued an EPA siting waiver due to its location failing to meet siting requirements. PM₁₀ is now being monitored at the St Pete Midtown (AQS # 12-103-0028) site located approximately 2 miles from the Woodlawn location. Due to the close proximity, the network will preserve spatial coverage after the shutdown of the Woodlawn PM₁₀ monitor. The minimum network requirements per 40 CFR Part 58, Appendix D will continue to be met if the monitor is shutdown.

Table 2-9: 40 CFR Part 58.14(c) and Ambient Air Monitoring Network Assessment Guidance Calculations for PM₁₀

AQS Site #	Site Name	Pollutant	Averaging Period	1 st Highest Ranked 24hr Average					\bar{X}	s	t	n	NAAQS	80% of NAAQS	90% Confidence Interval	Pass
				2020	2021	2022	2023	2024								
12-011-5005	Coconut Creek	PM ₁₀	24-hr	81	76	99	64	69	77.8	13.51	2.13	5	150	120	96.6	Yes
12-103-0012	Woodlawn	PM ₁₀	24-hr	57	60	59	66	78	64	8.51	2.13	5	150	120	72.1	Yes

2.4 Pinellas County – Oakwood (AQS # 12-103-5003) Site: SO₂

The Oakwood (AQS # 12-103-5003) site in Pinellas County is a single pollutant monitoring site established in September 1998, with a “Source” monitoring objective due to SO₂ emissions from the Duke Energy Anclote Power Plant. The Duke Energy Anclote Power Plant changed fuel sources in 2013 from coal to natural gas and residual fuel oil, and no significant SO₂ concentrations have been captured at the Oakwood site since 2013. Table 2-10 provides the AAMNAG calculations results for the SO₂ monitor at the Oakwood site in Pinellas County. Additionally, the current shelter is in poor condition and would require replacement.

Table 2-10: 40 CFR Part 58.14(c) and Ambient Air Monitoring Network Assessment Guidance Calculations for SO₂

AQS Site #	Site Name	Pollutant	Averaging Period	Design Value				2024	\bar{X}	s	t	n	NAAQS	80% of NAAQS	90% Confidence Interval	Pass
				2020	2021	2022	2023									
12-103-5003	Oakwood	SO ₂	1-hr	3	3	3	3	3	3	0	2.13	5	75	60	3	Yes