

JEPB Air Quality Branch Briefing
May 2024

Air Committee Meeting

There was no air committee meeting last month.

Personnel

The Air Quality Branch has two vacancies – one Environmental Quality Technician in Response and an Associate Engineer in air permitting.

Funding

Nothing to report.

Response Group

The following are the service requests received through the MyJax system last month:

Air General complaints = 14

Noise = 59

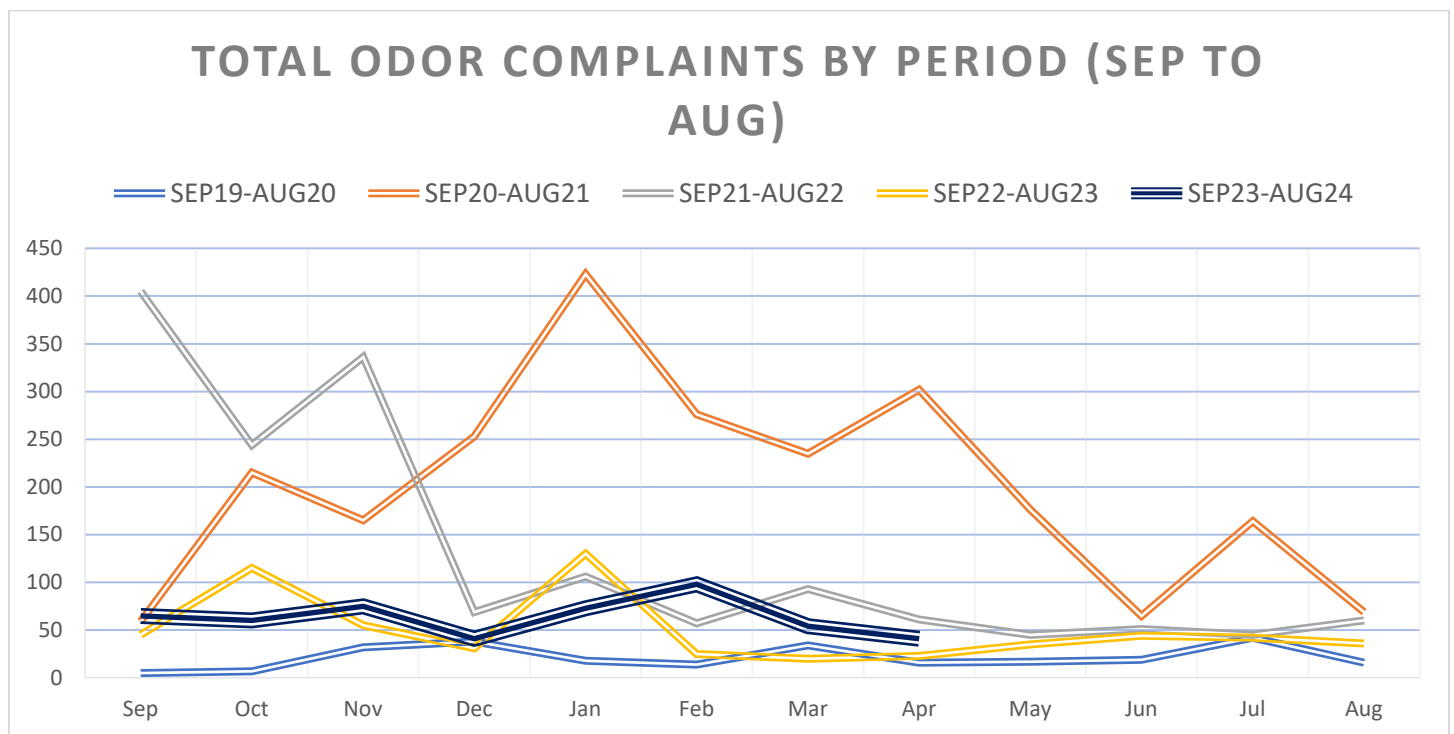
Odor = 41, validated: IFF = 1, Symrise = 1, Nesbit Restaurant = 1, JEA = 1

Open Burning Complaints = 13

Open Burning Permit Requests = 11

Open Burning Permits issued = 1

The following graph compares the number of odor complaints for each month since September 2019.



Compliance Group

Compliance inspections for last month = 3

Compliance test observations for last month = 0

Compliance test and periodic reports reviewed last month = 30

Asbestos notifications received last month = 43

Asbestos inspections for last month = 12

Ambient Air Monitoring Group

Air monitoring sites:

Sheffield: The site does not meet siting criteria due to a nearby oak tree (on private property) in the prominent wind direction. This does not invalidate data but is a DEP audit finding that must be corrected. Rather than remove the tree, we are now planning to replace the instrument shelter and will locate it an acceptable distance from the tree. It appears that this will have to wait until FY2025.

Mayo: The site does not meet siting criteria due to several tall pine trees. We are working on a plan to address the trees. This does not invalidate data. A new air monitoring shelter has been installed and is now operational. We have measured the trees and are reassessing which trees need to be removed. The tree mitigation is planned to be complete this FY.

Mandarin: This site does not meet siting criteria due to the height of trees in the prominent wind direction. This does not invalidate data. The tree mitigation is planned to be complete this FY.

AQI report (attached):

April air quality based on the AQI rating system was either good or moderate for the month. The highest values were 90 for Ozone and 64 for PM2.5. These values are below the unhealthy for sensitive groups value of 101.

Note that the new PM2.5 NAAQS went into effect May 6, 2024. As a result we expect to have more moderate air quality days than in previous years.

Completeness:

This report is for April 2024 data.

All monitors in the COJ network reported greater than 94% for the month of April 2024.

Open Variances

Haskell	Variance approved September 2023 and is in place through September 2024	
RD Michaels Gen Contractor	Variance approved January 2024 and is in place through November 2024	
Summitt Contracting	Variance approved November 2023 and is in place through April 2025	
BAE Systems	Variance approved March 2024 and is in place through March 2026	
Jacksonville Center for Endoscopy	Nighttime Dumpster Permit	no issues
Residences at Barnett	Nighttime Dumpster Permit	no issues

Florida Department of Environmental Protection

AIR MONITORING VALIDATION PROGRAM

AQI Summary Report

Report Created 05/13/2024 13:44:16

Criteria

Date Range: 01/01/2024 - 12/31/2024

County: Duval Year 2024

Day	January	February	March	April	May
1	66 PM _{2.5}	53 PM _{2.5}	52 PM _{2.5}	48 O ₃	51 O ₃
2	44 PM _{2.5}	86 PM _{2.5}	51 PM _{2.5}	56 PM _{2.5}	47 O ₃
3	54 PM _{2.5}	75 PM _{2.5}	34 O ₃	56 PM _{2.5}	44 O ₃
4	51 PM _{2.5}	42 O ₃	37 O ₃	45 O ₃	37 O ₃
5	48 PM _{2.5}	57 PM _{2.5}	34 O ₃	54 O ₃	72 PM ₁₀
6	41 PM _{2.5}	42 PM _{2.5}	42 O ₃	55 PM _{2.5}	44 PM _{2.5}
7	41 PM _{2.5}	44 PM _{2.5}	41 O ₃	50 O ₃	52 PM _{2.5}
8	36 O ₃	39 PM _{2.5}	38 O ₃	48 O ₃	56 PM _{2.5}
9	42 PM _{2.5}	51 PM _{2.5}	52 PM _{2.5}	48 O ₃	52 PM _{2.5}
10	44 PM _{2.5}	46 PM _{2.5}	35 O ₃	55 PM _{2.5}	54 O ₃
11	42 PM _{2.5}	51 PM _{2.5}	47 O ₃	54 PM _{2.5}	50 O ₃
12	42 PM _{2.5}	49 PM _{2.5}	52 PM _{2.5}	50 O ₃	64 O ₃
13	55 PM _{2.5}	31 PM _{2.5}	52 PM _{2.5}	54 O ₃	16 O ₃
14	43 PM _{2.5}	49 PM _{2.5}	67 O ₃	71 O ₃	
15	47 PM _{2.5}	52 PM _{2.5}	64 PM _{2.5}	90 O ₃	
16	49 PM _{2.5}	69 PM _{2.5}	56 PM _{2.5}	67 O ₃	
17	46 PM _{2.5}	57 PM _{2.5}	52 PM _{2.5}	54 PM _{2.5}	
18	52 PM _{2.5}	38 PM _{2.5}	48 PM _{2.5}	53 PM _{2.5}	
19	48 PM _{2.5}	56 PM _{2.5}	44 O ₃	64 PM _{2.5}	
20	47 PM _{2.5}	61 PM _{2.5}	59 PM _{2.5}	58 PM _{2.5}	
21	40 PM _{2.5}	60 PM _{2.5}	94 PM _{2.5}	42 PM _{2.5}	
22	37 O ₃	69 PM _{2.5}	44 PM _{2.5}	45 O ₃	
23	43 PM _{2.5}	52 PM _{2.5}	41 O ₃	50 O ₃	
24	34 O ₃	43 O ₃	54 PM _{2.5}	77 O ₃	
25	37 PM _{2.5}	53 PM _{2.5}	59 PM _{2.5}	90 O ₃	
26	49 PM _{2.5}	55 PM _{2.5}	51 PM _{2.5}	67 O ₃	
27	36 PM _{2.5}	77 O ₃	53 PM _{2.5}	61 O ₃	
28	32 O ₃	57 PM _{2.5}	47 PM _{2.5}	50 O ₃	
29	31 O ₃	44 PM _{2.5}	50 O ₃	47 PM _{2.5}	
30	58 PM _{2.5}		58 O ₃	45 PM _{2.5}	
31	38 O ₃		45 O ₃		

Note: The Air Quality Index posted for the current day uses data from midnight to the current hour only. 24 hour calculations are not included until 18 hours of the day have passed. The calculation cannot be complete until midnight.

Number of Days	Good ≤50	Moderate 51-100	Unhealthy for sensitive groups 101-150	Unhealthy 151-200	Very unhealthy 201-300	Hazardous >301
AQI Values						
O3	34	15				
PM2.5	35	49				
PM10		1				
Totals	69	65				

Number of Days with AQI Values = 134

Highest AQI Reported = 94 PM_{2.5} on 3/21/2024

Florida Department of Environmental Protection

AIR MONITORING VALIDATION PROGRAM

Completeness Report

Report Created 05/13/2024 13:45:49

Criteria

Date Range: 01/01/2024 - 12/31/2024

Site	Parameter	Interval	Valid Readings	Expected Readings
L0310032	NO2	001h	3119	3206
L0310032	PM10C	001h	3098	3206
L0310032	PM25_3	001h	3098	3206
L0310032	SO2	001h	3160	3206
L0310032	SO2	005m	31588	38470
L0310077	O3	001h	3167	3206
L0310077	PM25C	001h	3150	3206
L0310098	PM10C	001h	3189	3206
L0310098	PM25C_3	001h	3189	3206
L0310099	PM2.5C	001h	3187	3206
L0310100	O3	001h	3040	3206
L0310100	PM25C	001h	3122	3206
L0310106	O3	001h	3169	3206
L0310108	CO	001h	3007	3206
L0310108	NO2	001h	3131	3206
L0310108	PM25C_3	001h	3192	3206

Site: L0310032 Parameter: NO2 Interval: 001

[illegible]

Site: L0310032 Parameter: PM10C Interval: 0

[illegible]

Site: L0310032 Parameter: PM25 3 Interval: 1

[illegible]

Site: L0310032 Parameter: SO2 Interval: 001

[illegible]

Site: L0310032 Parameter: SO2 Interval: 005

[illegible]

Site: L0310077 Parameter: Q3 Interval: 001h

[illegible]

Site: L0310077 Parameter: PM25C Interval: 0

[illegible]

Site: L0310098 Parameter: PM10C Interval: 001h

Site: L0310098 Parameter: PM25C 3 Interval: 001h

Site: L0310099 Parameter: PM2.5C Interval: 001h

Site: L0310100 Parameter: O3 Interval: 001h

Site: L0310100 Parameter: PM25C Interval: 001h

Site: L0310106 Parameter: O3 Interval: 001hSite: L0310108 Parameter: CO Interval: 001h

Site: L0310108 Parameter: NO2 Interval: 001h

Site: L0310108 Parameter: PM25C 3 Interval: 001h

[illegible]