

**AIR, NOISE AND VIBRATION
MONTHLY MONITORING REPORT**

Prepared By: NorthStar Contracting Group, Inc.

DDC. Project ID:	BBJ K-DSS	Period Start: 4/1/24 End 4/11/24
Project Name:	NYC Borough Based Jails System – Brooklyn Dismantle and Swing Space Project	
DDC Pin No.:	8502020CR0043P	

1) Community Air Monitoring Monthly Status Summary

TWA – Time Weighted Average
ug/m³- micrograms per cubic meter

Number of Workdays in a Month	Number of Air Monitoring Days in a Month	Number of Days with Dust Concentrations above Action Concentrations by Month (100 ug/m ³ 15-minute TWA)	Comments
8	30	0	Air Monitoring was performed during weekdays and weekends. No exceedances were noted.

Community Air Monitoring Excursions and Corrective Actions

Action Concentration = 100 ug/m³ 15 minute TWA above background concentration
Stop Work Concentration = 150 ug/m³ 15 minute TWA above background concentration

Date: Time	Maximum Dust Reading Before Corrective Action 15 Minute TWA (ug/m ³)	Maximum Dust Reading After Corrective Action 15 Minute TWA (ug/m ³)	Corrective Action

Narrative Summary of Air Monitoring, Excursions and Corrective Actions:

*During the month of April 2024, air monitoring devices were in continuous operation at the project site recording construction-related levels of Particulate Matter (PM). PM10 levels **did not** surpass Daily Permissible Exposure Limits (PEL) during this month as set by federal standards for the 24-hour Time Weighted Average (TWA), or daily value and did not trigger notifications to the project management construction team or contractor specific to air quality exceedances that could potentially impact the public or on-site workers.*

The contractor, NorthStar Contracting Group, Inc. in with their environmental specialist, will implement mitigation techniques at Action Levels as well as Exceedances of Exposure Limits (15-minute TWA) to suppress construction activity effects on air quality when warranted throughout the Project work-zone.

No corrective actions or mitigations measures were required this month.

Project completed and all monitoring equipment was removed on April 11, 2024.

2) Community Noise Monitoring Monthly Summary

Units are weighted decibels (dBA) level

Number of Workdays in a Month	Number of Noise Monitoring Days in a Month	Number of Days with Noise Levels above Action Levels by Month	Comments
8	30	0	Noise monitoring was performed during weekdays and weekends. No construction-related exceedances were recorded.

Community Noise Monitoring Excursions and Corrective Actions

Action Level = 80 dBA

Stop Work Level = 80 dBA

Date: Time	Maximum Noise Reading before Corrective Action (DBA)	Maximum Noise Reading after Corrective Action (DBA)	Corrective Action
None to Date	No Exceedance	N/A	Noise monitoring was performed during weekdays and weekends. No construction-related exceedances were recorded.

Narrative Summary of Noise Monitoring, Excursions and Corrective Actions:

*During the month of April 2024, noise monitoring devices were in continuous operation at the project site recording construction-related noise levels in units of (DBA). DBA levels **did not** surpass the Noise Limits identified by Local Law 113 during this month and did not cause noise concerns for the surrounding community. There were no notification triggers to the project management team or contractor specific to noise exceedances that could potentially impact the public or on-site workers.*

The contractor, NorthStar Contracting Group, Inc. in conjunction with their environmental specialist, will implement mitigation techniques at Action Levels as well as Exceedances of Exposure Limits to suppress construction activity effects on Noise when warranted throughout the Project work-zone.

No corrective actions or mitigations measures were required this month.

Project completed and all monitoring equipment was removed on April 11, 2024.

3) Community Vibration Monitoring Monthly Summary

Units are inches per second (in/sec)

Number of Workdays in a Month	Number of Vibration Monitoring Days in a Month	Number of Days with Vibration Levels above Action Levels by Month	Comments
8	30	1	No mitigation actions were required. Alerts triggered manually during off hours as well as during working hours.

Community Vibration Monitoring Excursions and Corrective Actions

Action Level = 0.50 in/sec peak particle velocity

Stop Work Level = 1.00 in/sec peak particle velocity

Date: Time	Maximum Vibration Level before Corrective Action (in/sec)	Maximum Vibration Level after Corrective Action (in/sec)	Corrective Action
April 3, 2024 17:34:34	0.798	N/A	No corrective action implemented. Crew was not present on site during this event.

Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:

Vibration monitors were installed within the MTA subway tunnel and in front of the Brooklyn Criminal Courthouse on State Street, to monitor vibrations during the dismantling of the Brooklyn Detention Center. The monitors in the subway tunnels were not activated, as the vibrations from train movements were determined to overwhelm or obscure the vibrations from the dismantling work. During the month of April 2024, vibration monitoring was ongoing through the date of removal, April 11th, 2024 at the project site and vibration monitoring devices were in continuous operation at the recording construction-related vibration levels measured in inches per second (in/sec) or IPS. Throughout the month of April, no work-related action-level vibration threshold exceedances and stop-work level vibration exceedances were above the Daily Permissible Exposure Limits (IPS) during this month as set by Action Levels = 0.5 in/sec above backgrounds and Stop Work Levels = 1.0 in/sec above backgrounds.

The contractor, NorthStar Contracting Group, Inc. in conjunction with their environmental specialist, will implement mitigation techniques at Action Levels as well as Exceedances to suppress construction activity effects that causes Vibration when warranted throughout the Project work-zone.

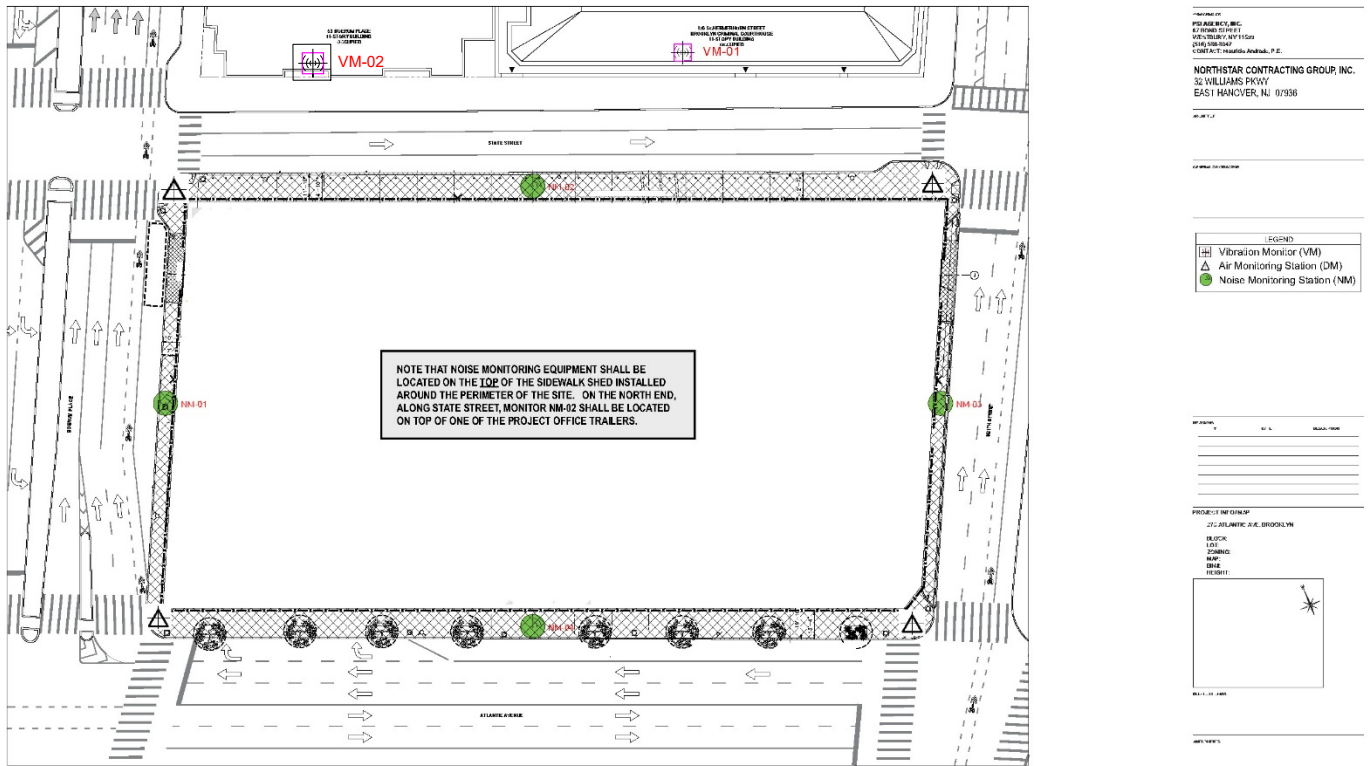
No corrective actions or mitigations measures were required this month as the single alert triggered on April 3, 2024, was unrelated to ongoing demolition work. At the time of the alert, the demolition crew was not present at the site. A

Project completed and all monitoring equipment was removed on April 11, 2024.

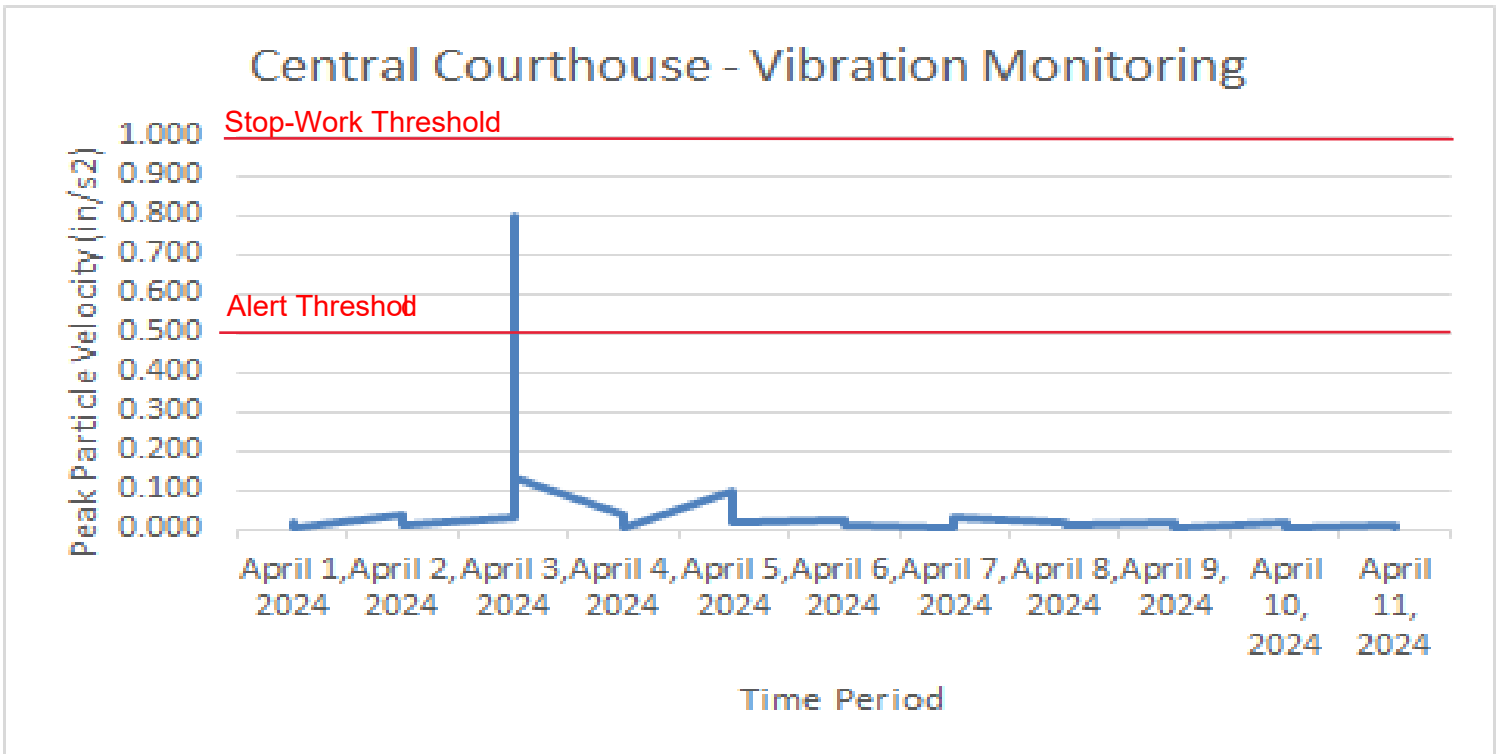
ATTACHMENTS:

- 1 – Map of monitoring station/locations
- 2 – Data Plots
- 3 – Baseline Reference

Map of Monitoring Locations:

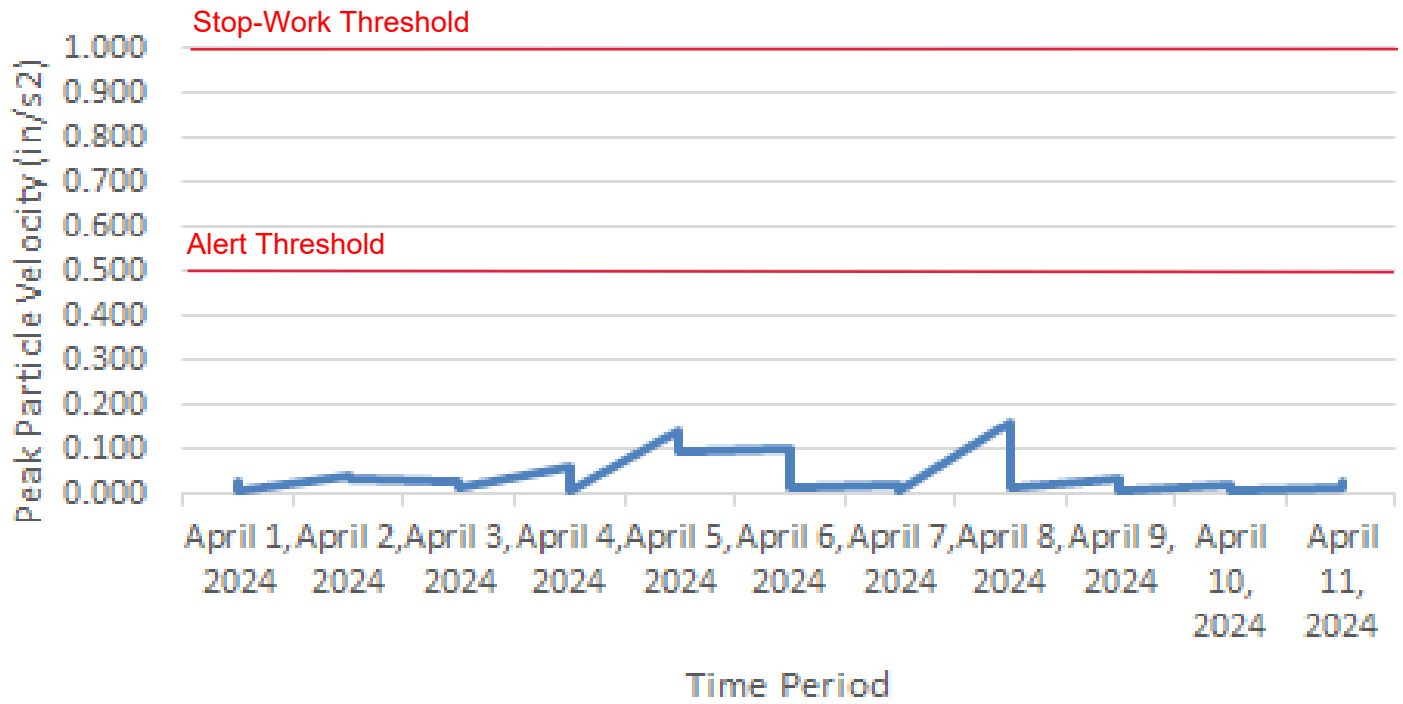


Central Courthouse Vibration Monitor – VM-01 – April 2024:

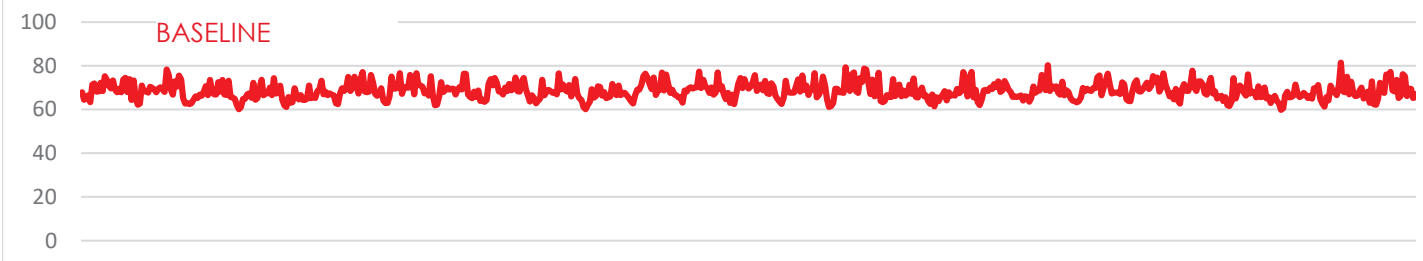
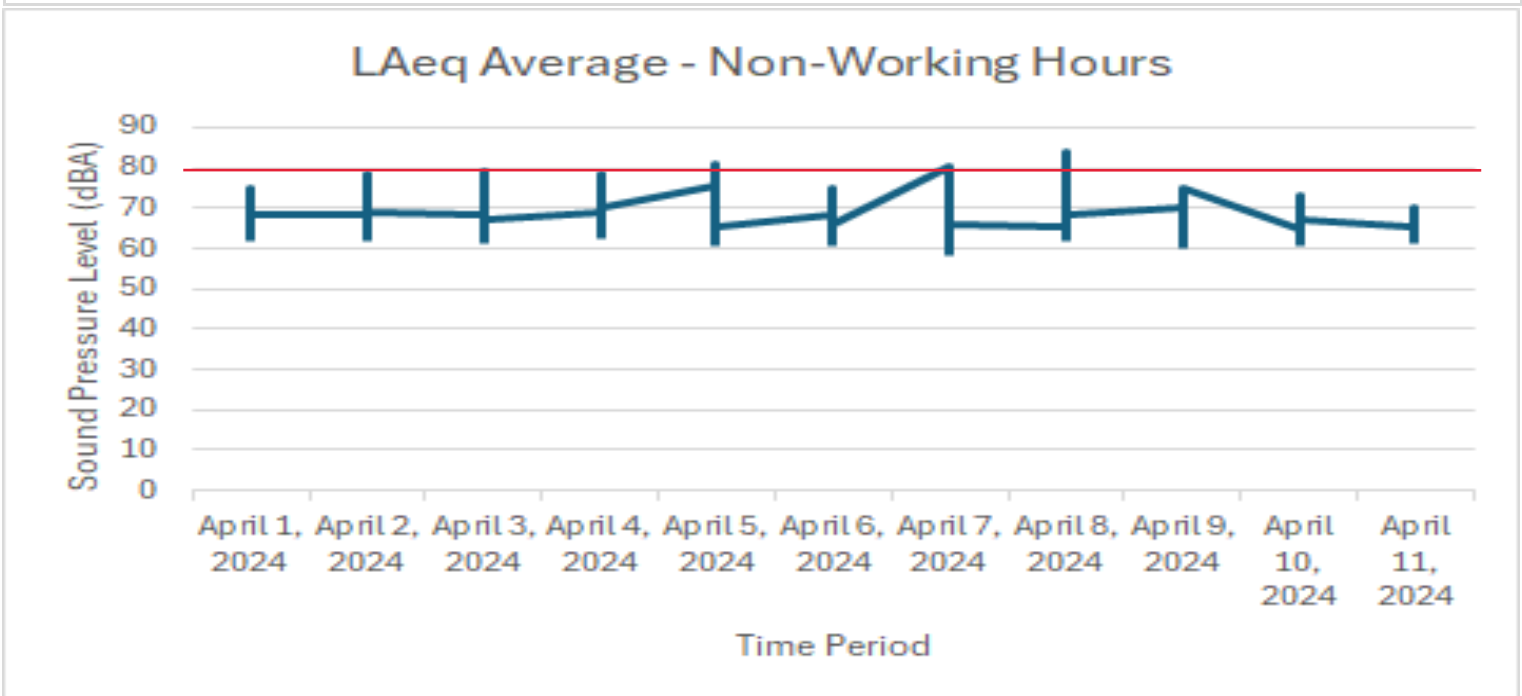
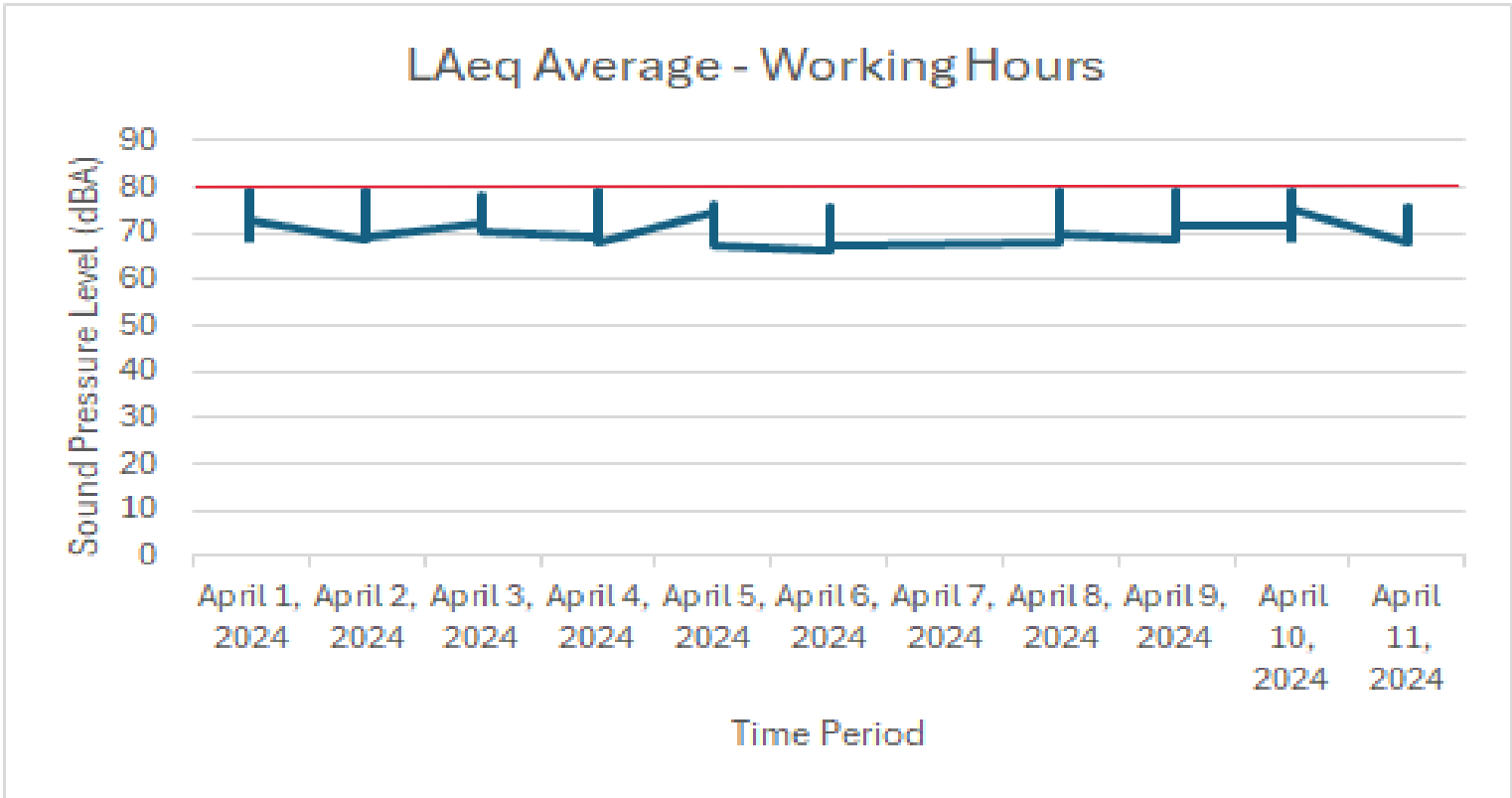


53 Boerum Place Vibration Monitor – VM-02 – April 2024:

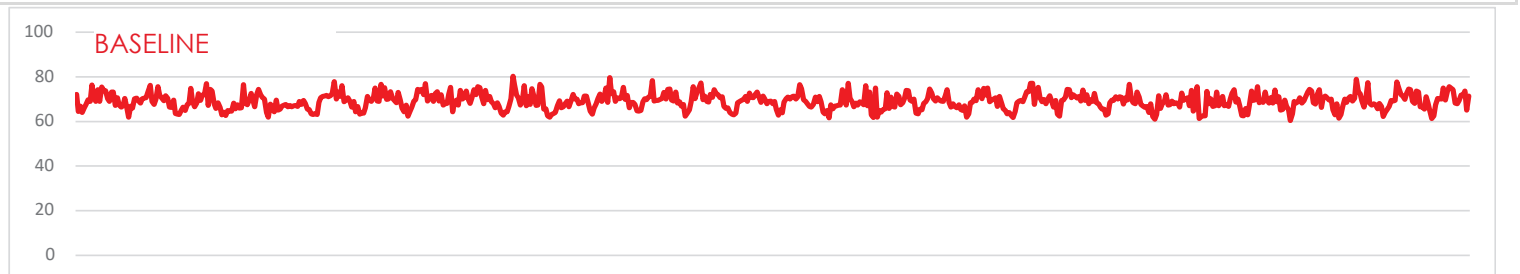
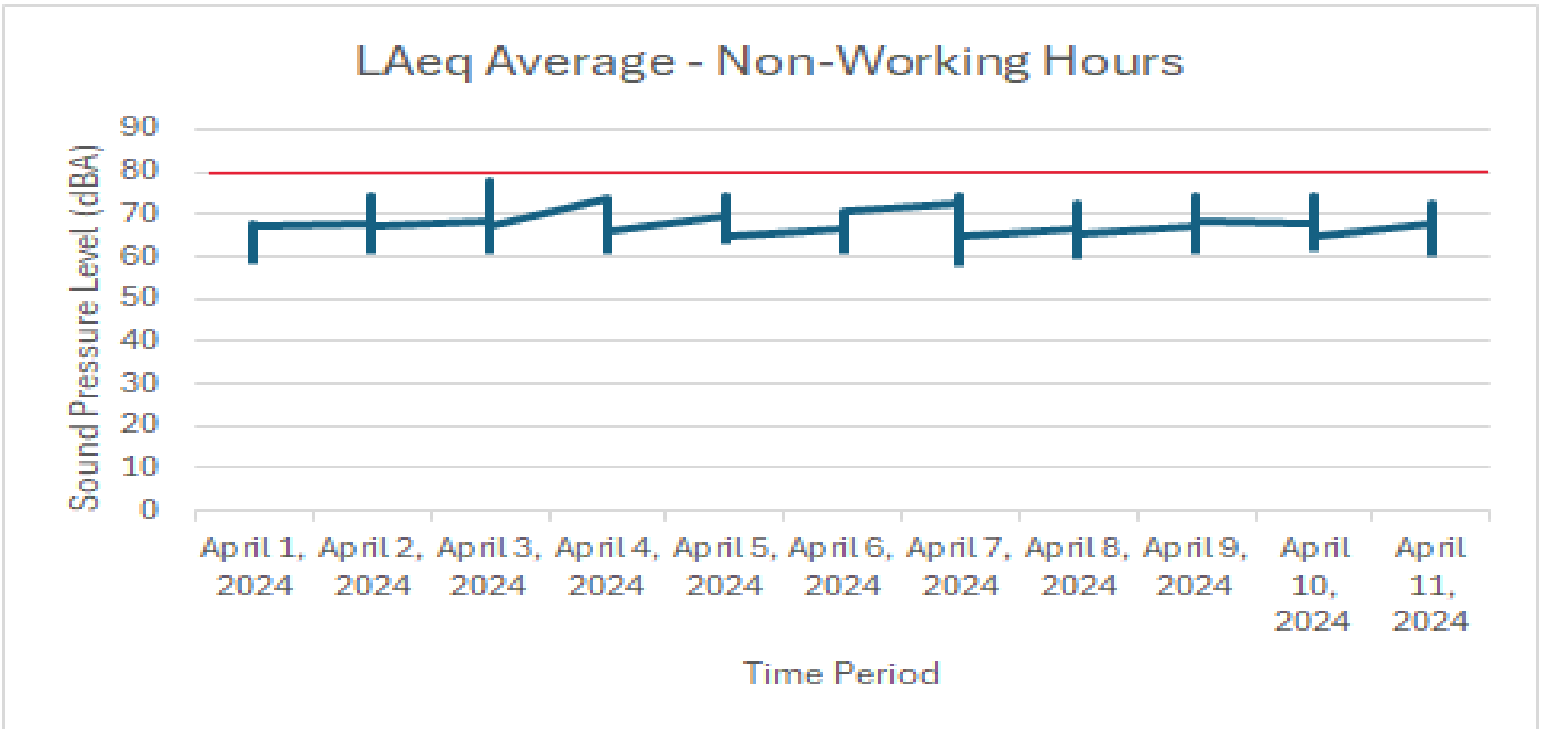
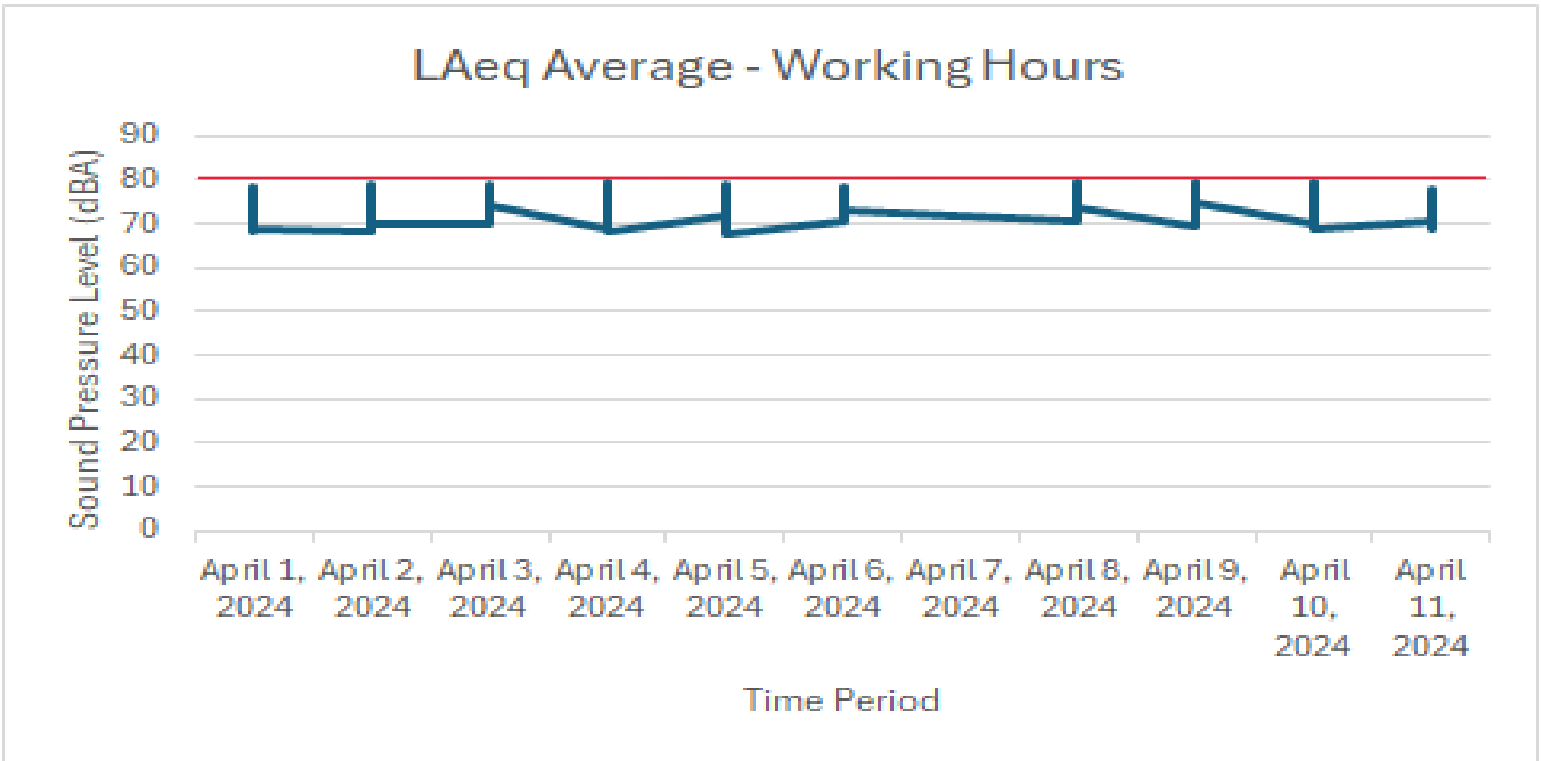
53 Boerum - Vibration Monitoring



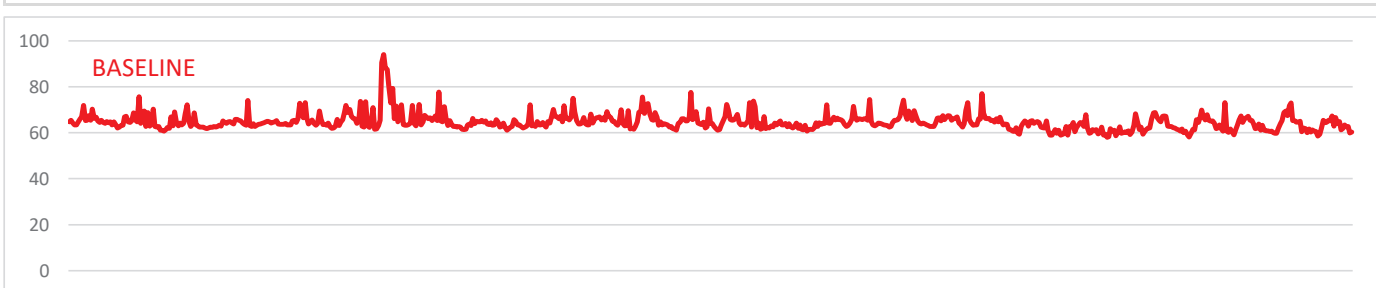
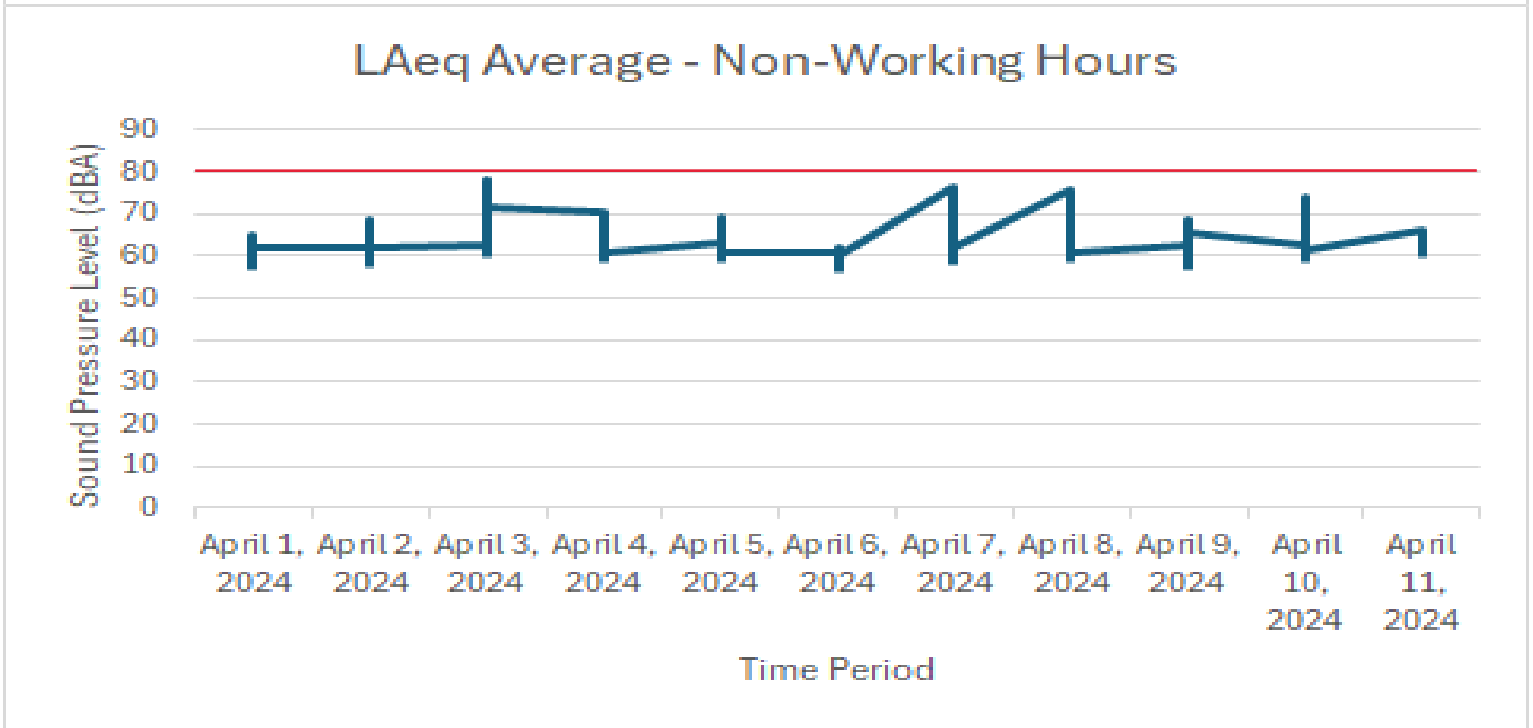
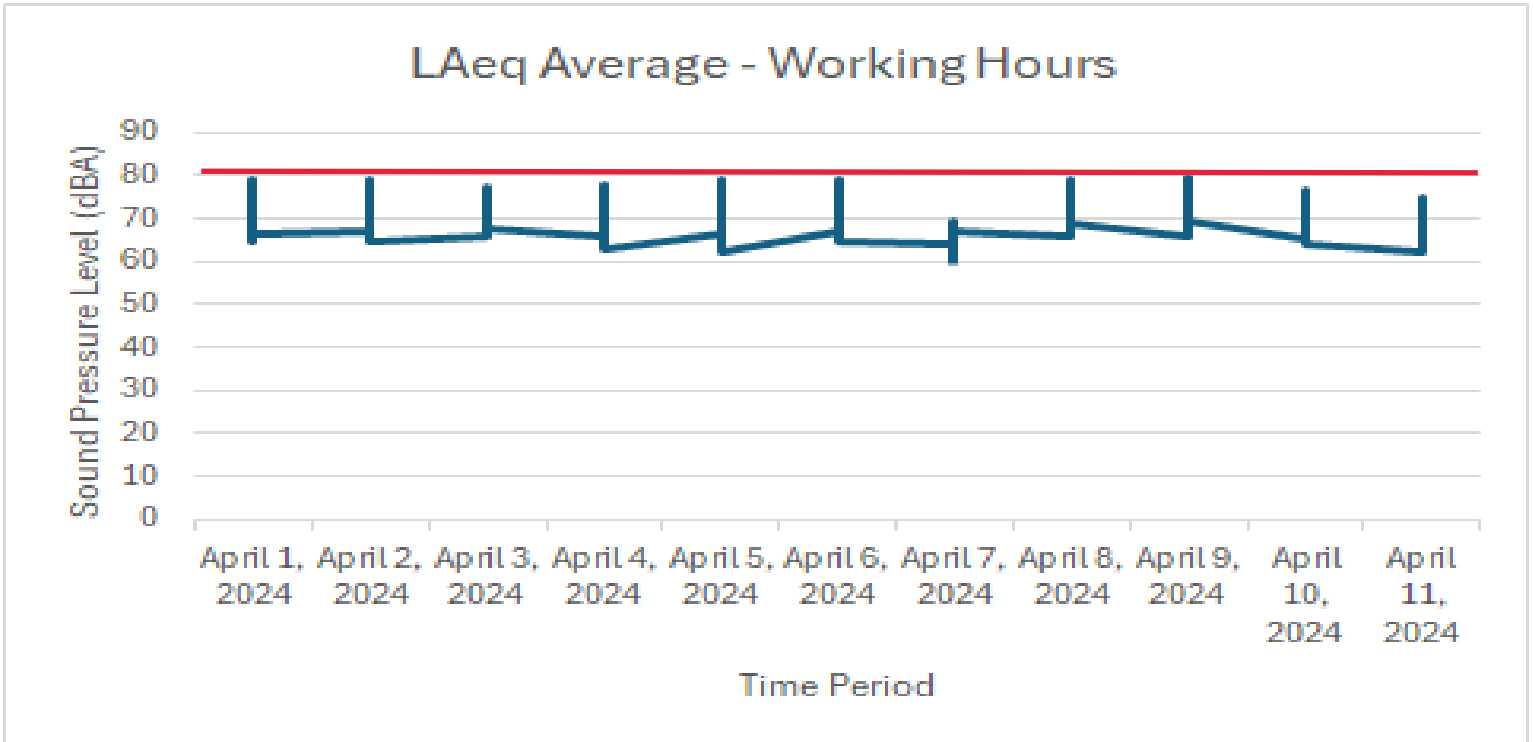
Noise Monitoring Unit #1674 - (Smith Street) – April 2024:



Noise Monitoring Unit #1493 - (Boerum Street) – April 2024:

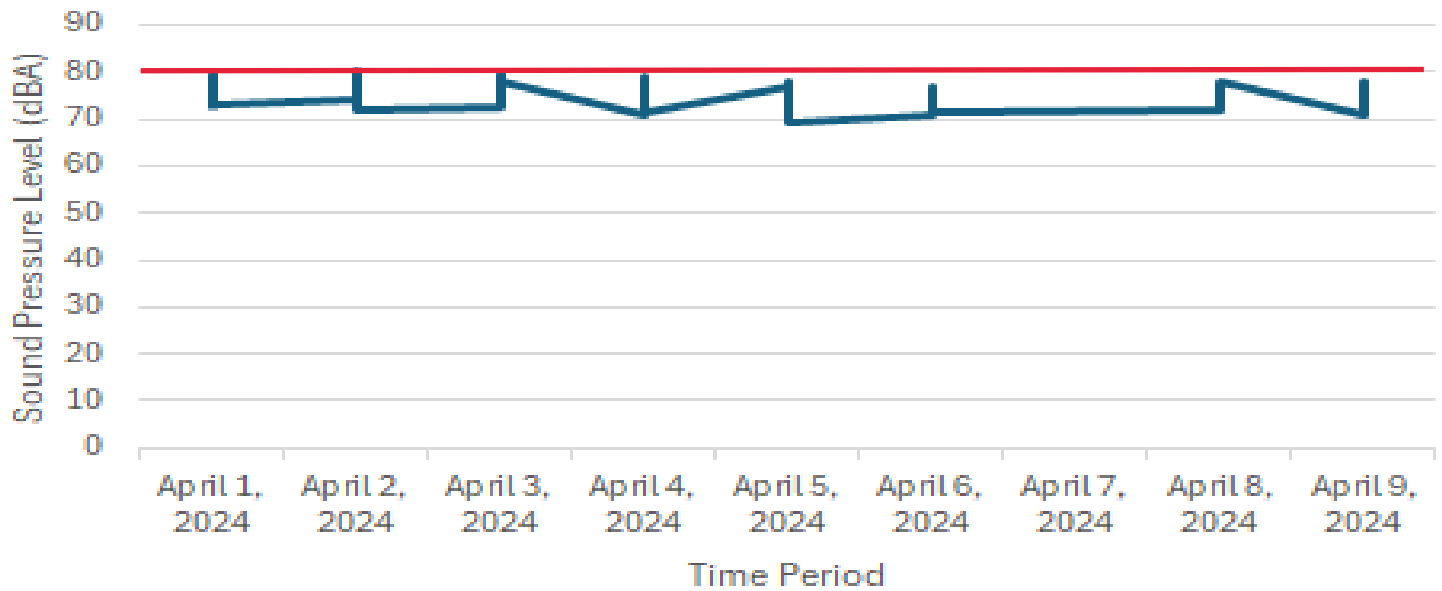


Noise Monitoring Unit #1494 - (State Street) – April 2024:

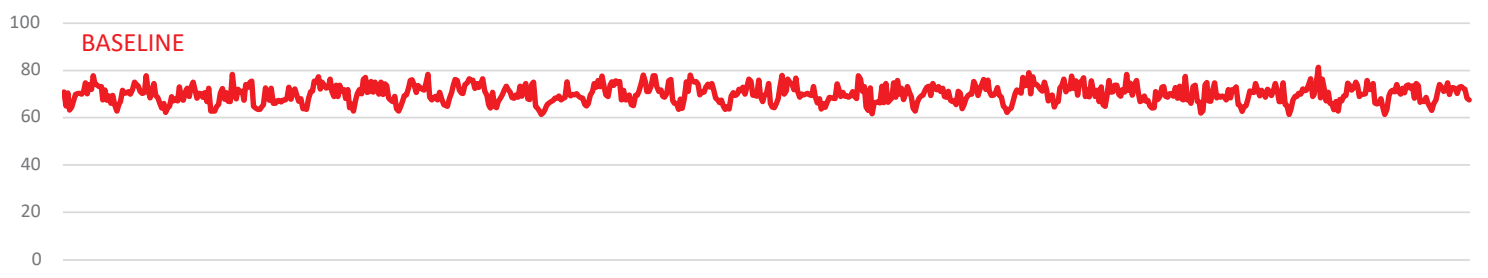
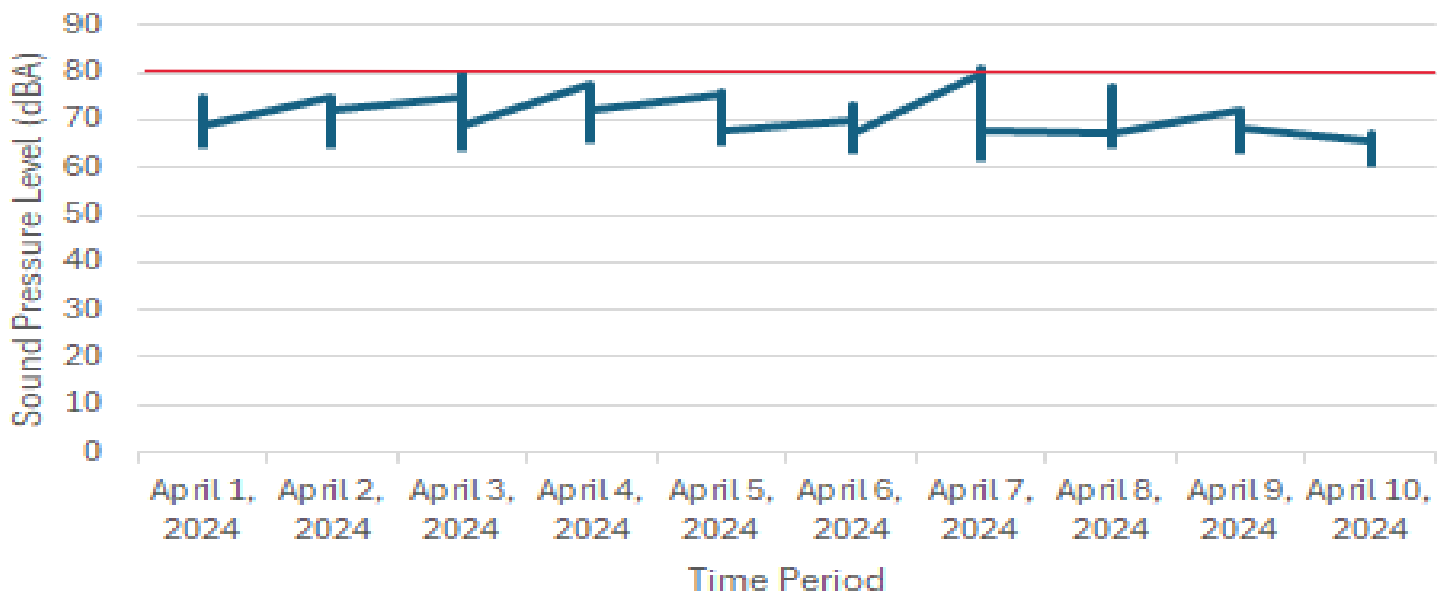


Noise Monitoring Unit #1532 - (Atlantic Avenue) – April 2024:

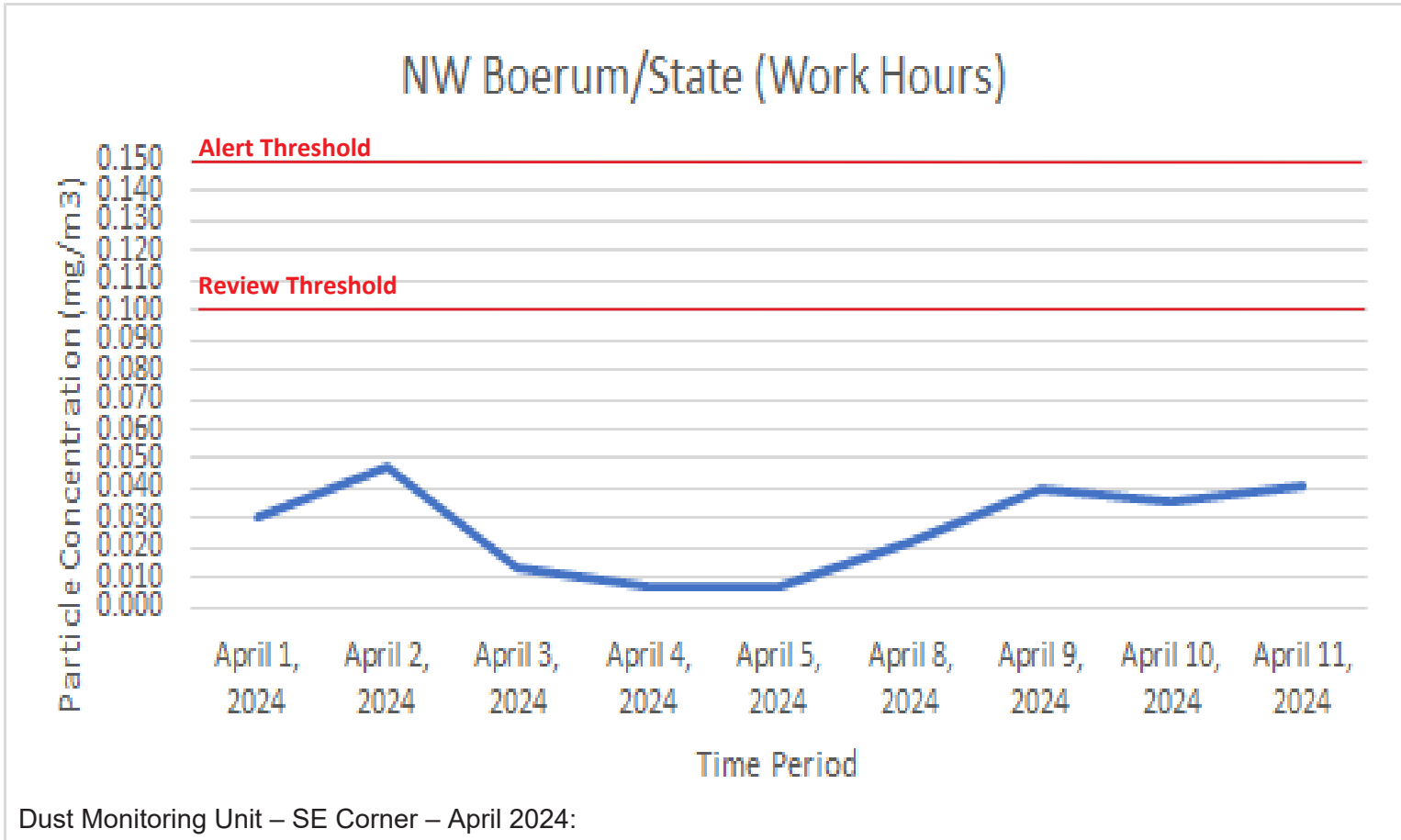
LAeq Average - Working Hours



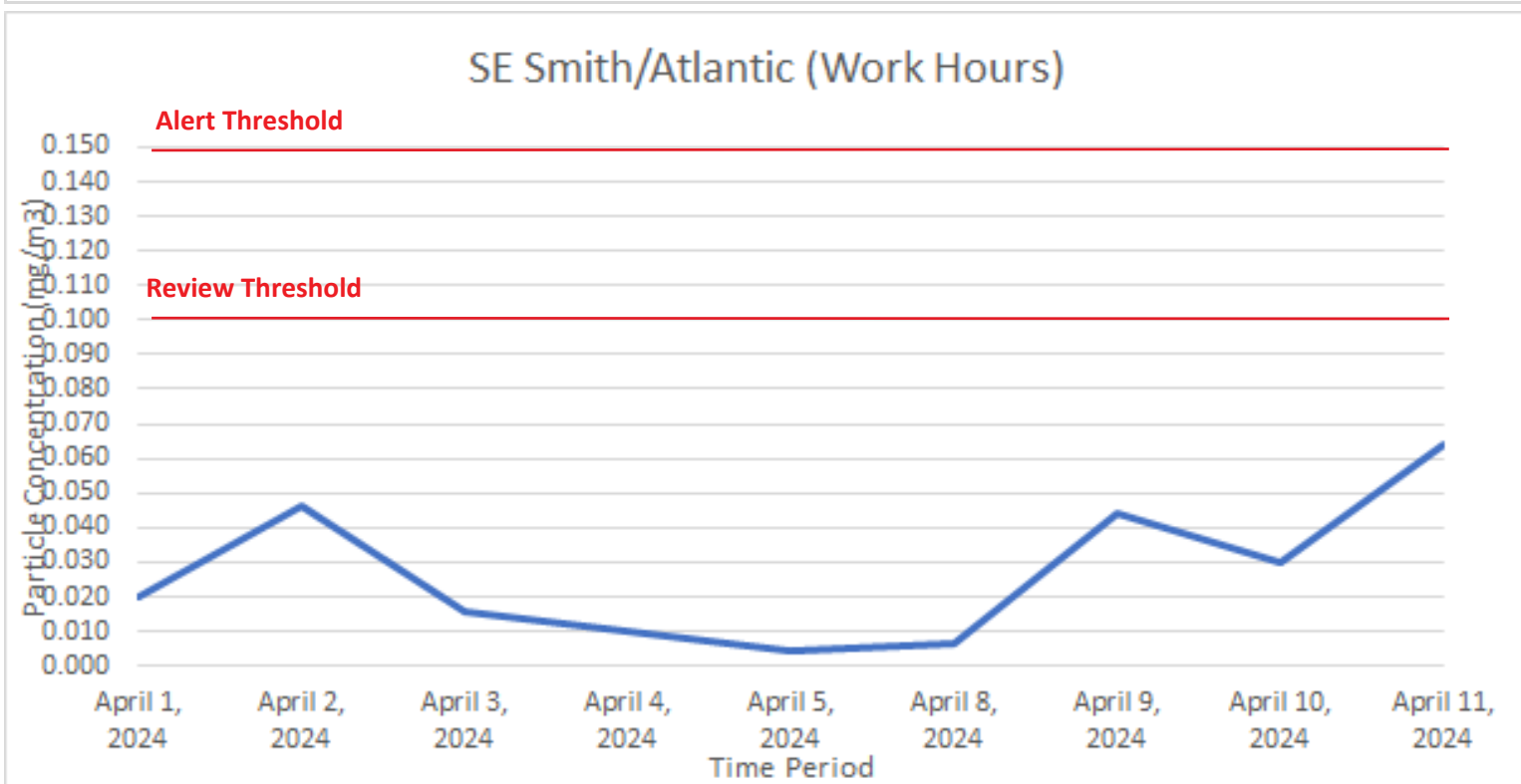
LAeq Average - Non-Working Hours



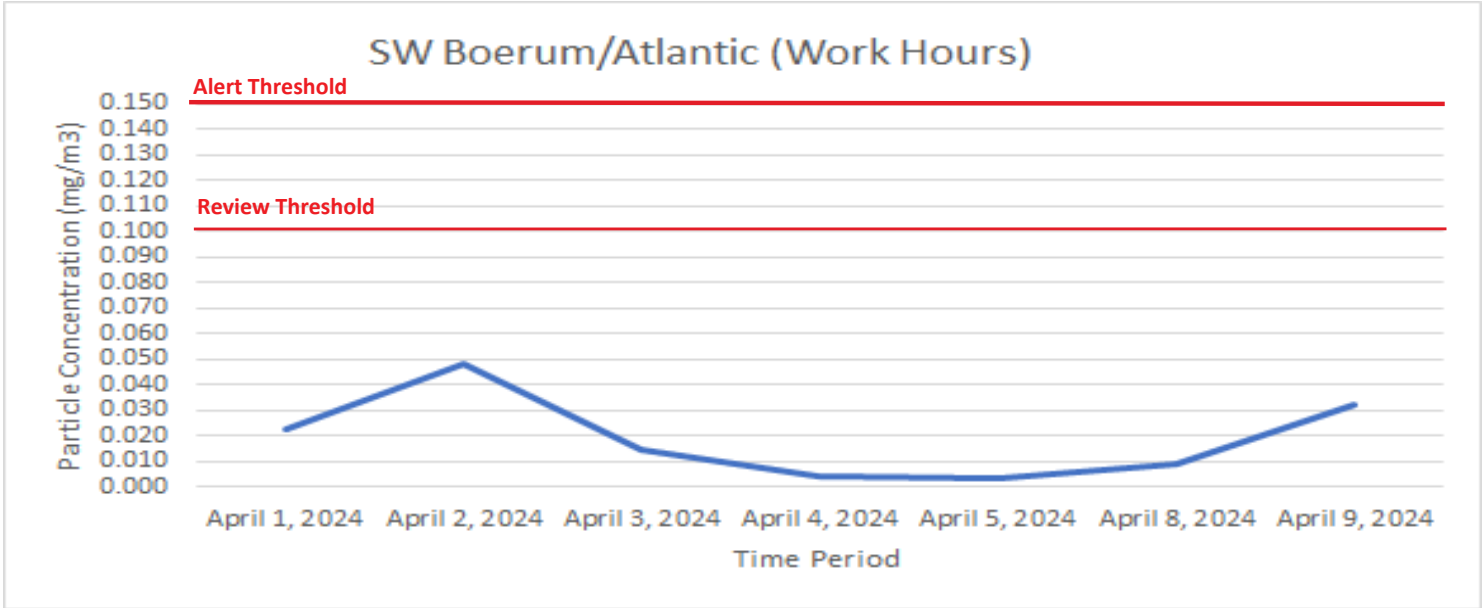
Dust Monitoring Unit – NW Corner – April 2024:



Dust Monitoring Unit – SE Corner – April 2024:



Dust Monitoring Unit – SW Corner – April 2024:



Dust Monitoring Unit – NE Corner – April 2024:

