

## AIR, NOISE AND VIBRATION MONTHLY MONITORING REPORT

Prepared By: PSI Agency, Inc.

<b>DDC. Project ID:</b>	BBJ K-DSS	<b>Period Start:</b> 07/01/23 <b>End</b> 07/31/23	
<b>Project Name:</b>	NYC Borough Based Jails System – Brooklyn Dismantle and Swing Space Project		
<b>DDC Pin No.:</b>	8502020CR0043P		
<b>1) Community Air Monitoring Monthly Status Summary</b> TWA – Time Weighted Average ug/m <sup>3</sup> - 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 <sup>3</sup> 15-minute TWA)	Comments
20	31	0	Air Monitoring was performed during weekdays and weekends. No exceedances were noted.
<b>Community Air Monitoring Excursions and Corrective Actions</b> Action Concentration = 100 ug/m <sup>3</sup> 15 minute TWA above background concentration Stop Work Concentration = 150 ug/m <sup>3</sup> 15 minute TWA above background concentration			
Date: Time	Maximum Dust Reading Before Corrective Action 15 Minute TWA (ug/m <sup>3</sup> )	Maximum Dust Reading After Corrective Action 15 Minute TWA (ug/m <sup>3</sup> )	Corrective Action
July 18, 2023	0.131		No corrective action possible; ambient conditions contributed to the exceedance
July 19, 2023	0.200		No corrective action possible; ambient conditions contributed to the exceedance
July 20, 2023	0.135		No corrective action possible; ambient conditions contributed to the exceedance
<b>Narrative Summary of Air Monitoring, Excursions and Corrective Actions:</b>  During the month of July 2023, air monitoring devices were in continuous operation at the project site recording construction-related levels of Particulate Matter (PM). PM10 levels <b>did not</b> 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.  Due to ongoing wildfires in Canada, air quality was impacted on July 18, 2023 – July 20, 2023. Please note elevated readings recorded during this period are identified in the graphs but are not attributed to ongoing demolition work.			

## 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
20	31	0	Noise monitoring was performed during weekdays and weekends. No construction-related exceedances were recorded.

### Community Noise Monitoring Excursions and Corrective Actions

Action Level = 3 dBA above background

Stop Work Level = 5 dBA above background

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 July 2023, 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.

### 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
20	N/A	N/A	Vibration monitoring was not active during this period

### 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
N/A	N/A	N/A	No mitigation actions were required

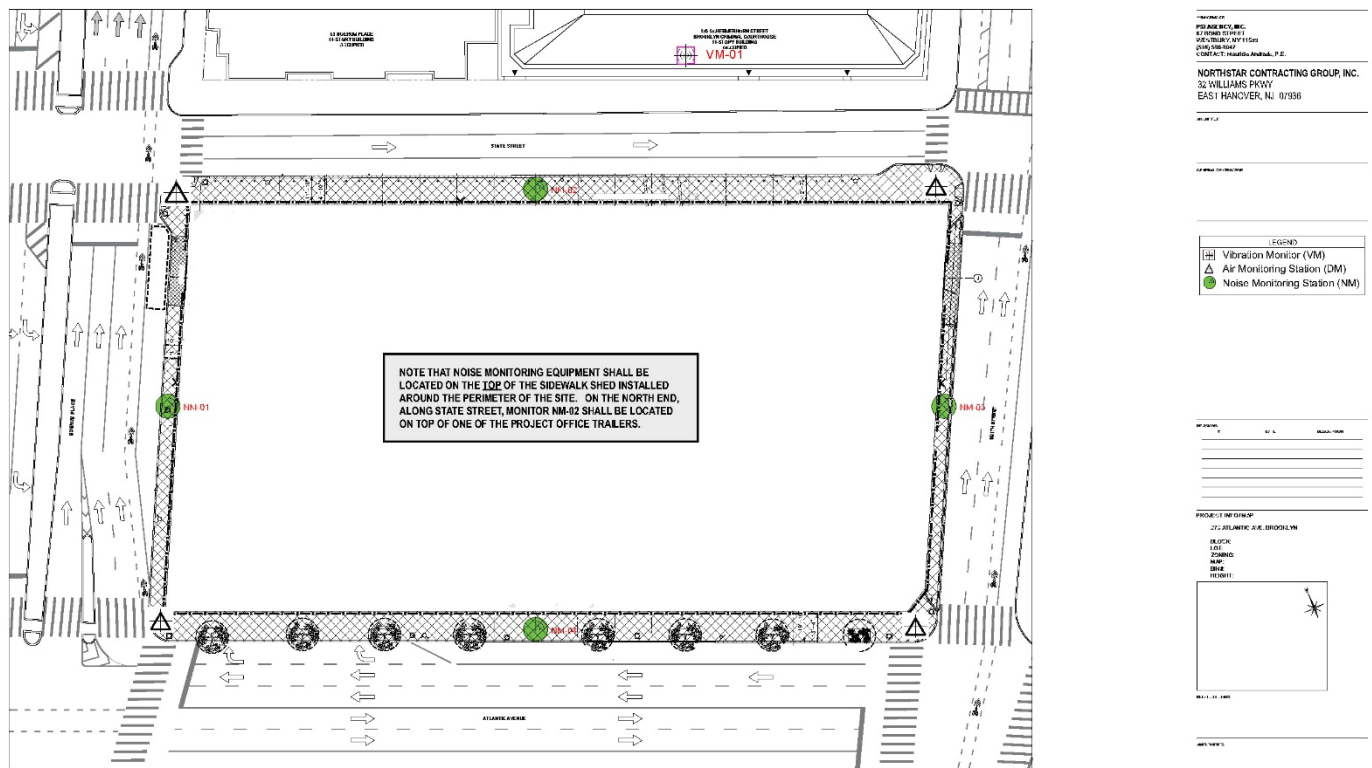
### Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:

*During the month of July 2023, vibration monitoring was discontinued at the project site while underground tank work was taking place within the same shaft. Relocating the unit was not feasible as this shaft was identified as the best possible location for monitoring the integrity of the Courthouse building located at 120 Schermerhorn Street. This vibration monitoring program was established to ensure structural integrity of the Courthouse building during the demolition of the superstructure of the Brooklyn Detention center. Demolition of the superstructure was limited to the interior partitions and roof deck during this period. Vibration monitoring shall resume once the demolition of the superstructure resumes in August 2023.*

### **ATTACHMENTS:**

- 1 – Map of monitoring station/locations
- 2 – Data Plots (Please add title to all the graphs)
- 3 – Baseline Reference

## Map of Monitoring Locations:

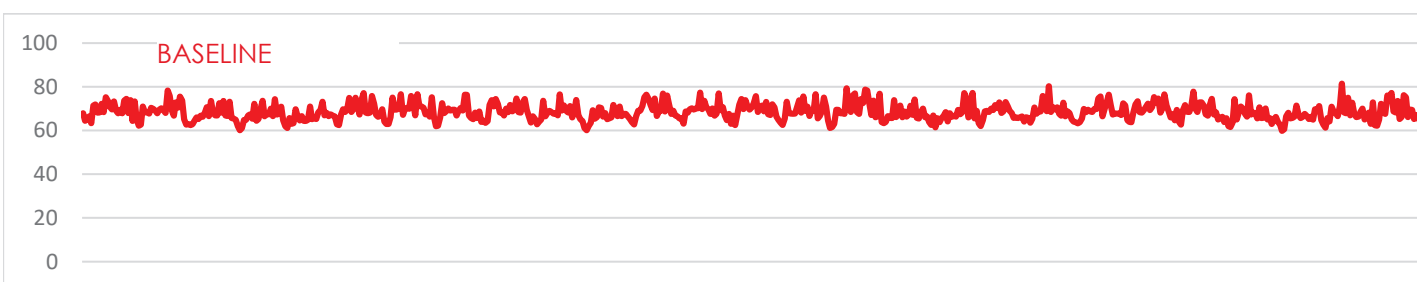
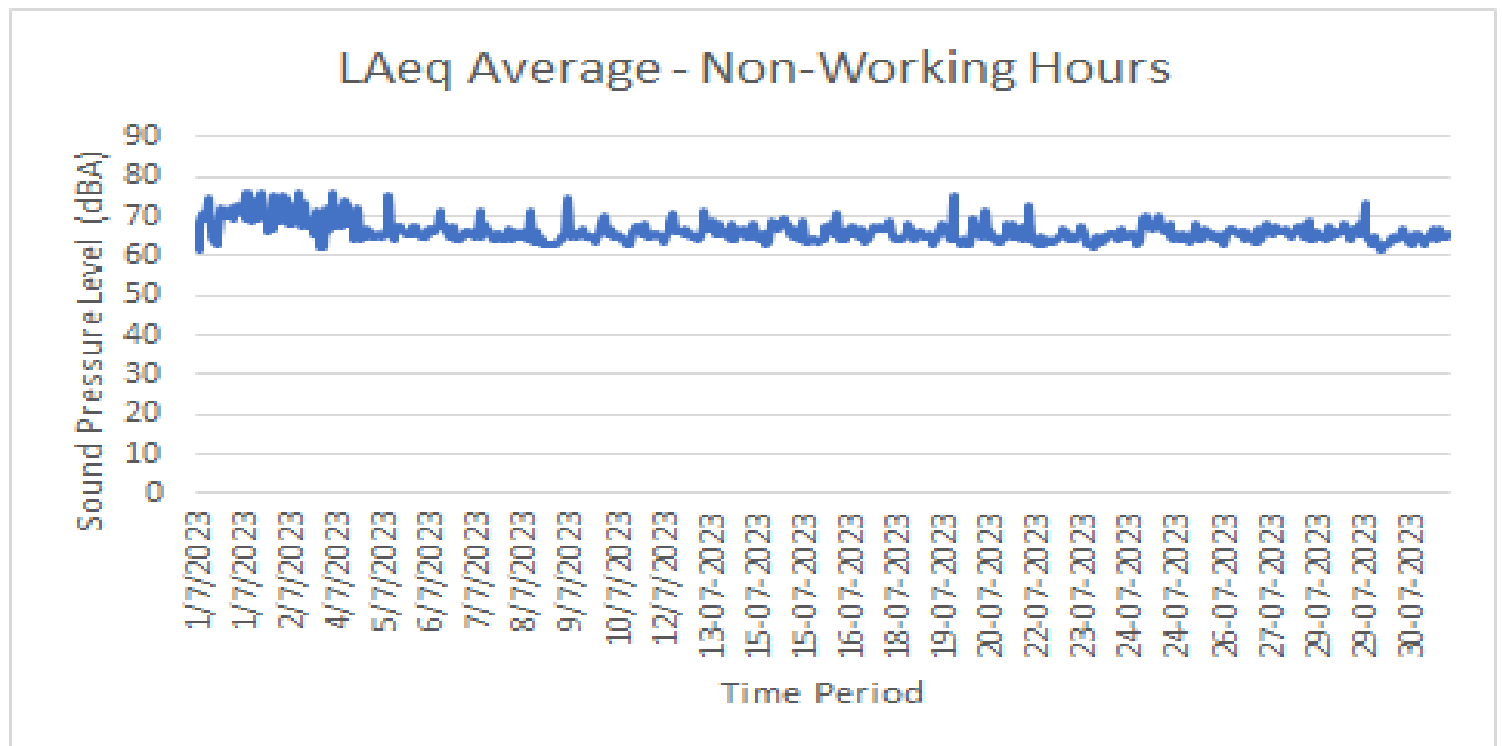
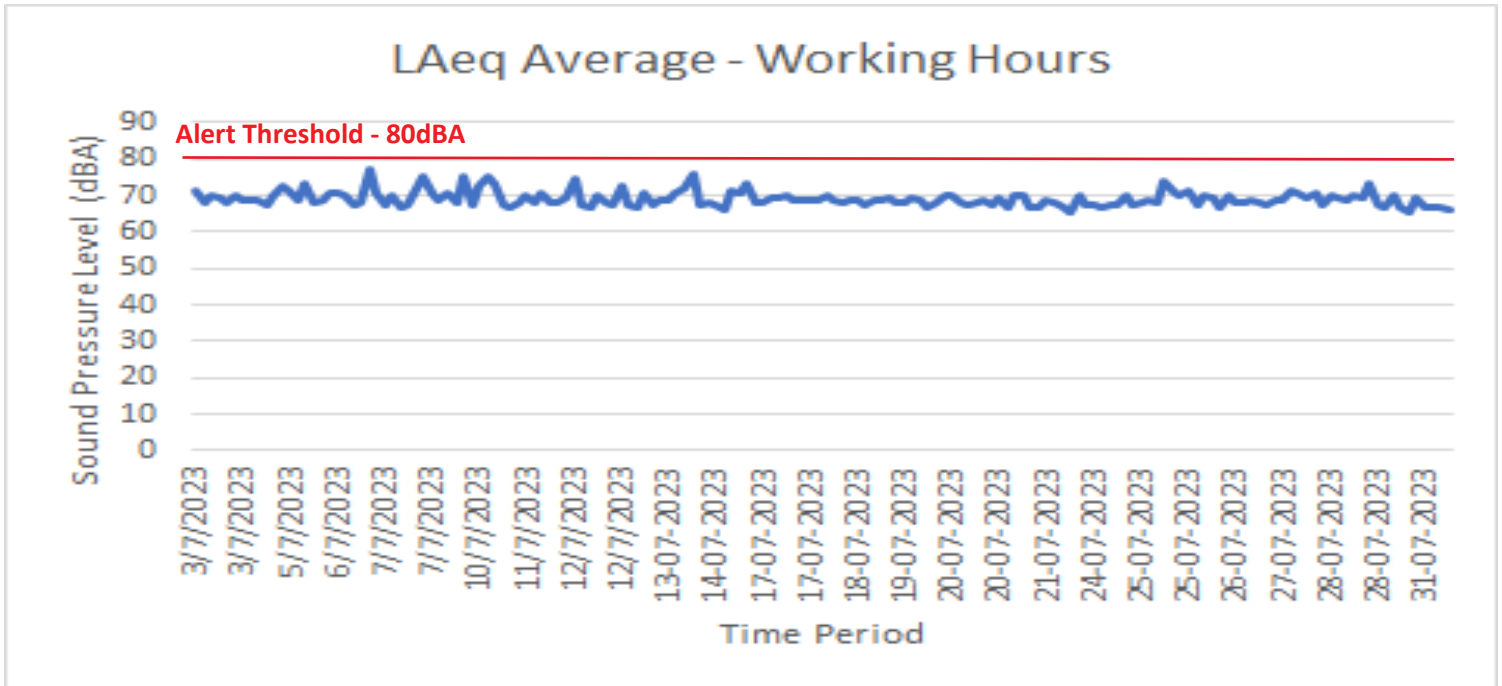


Vibration Monitor – VM-01 – July 2023:

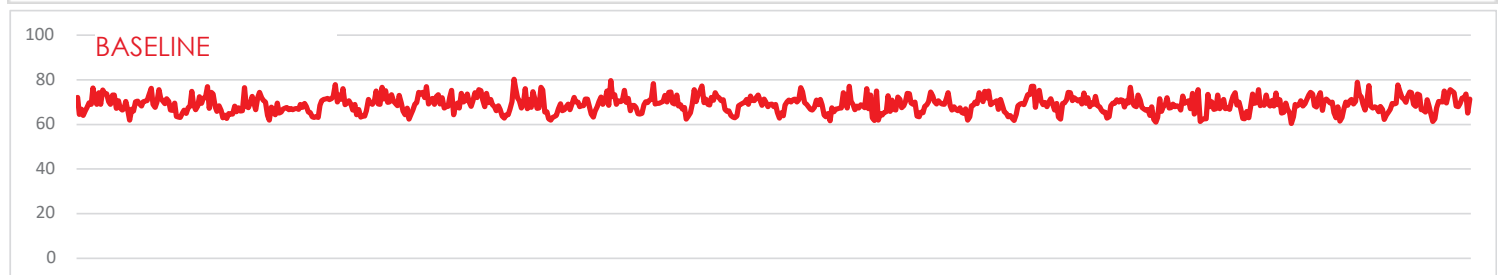
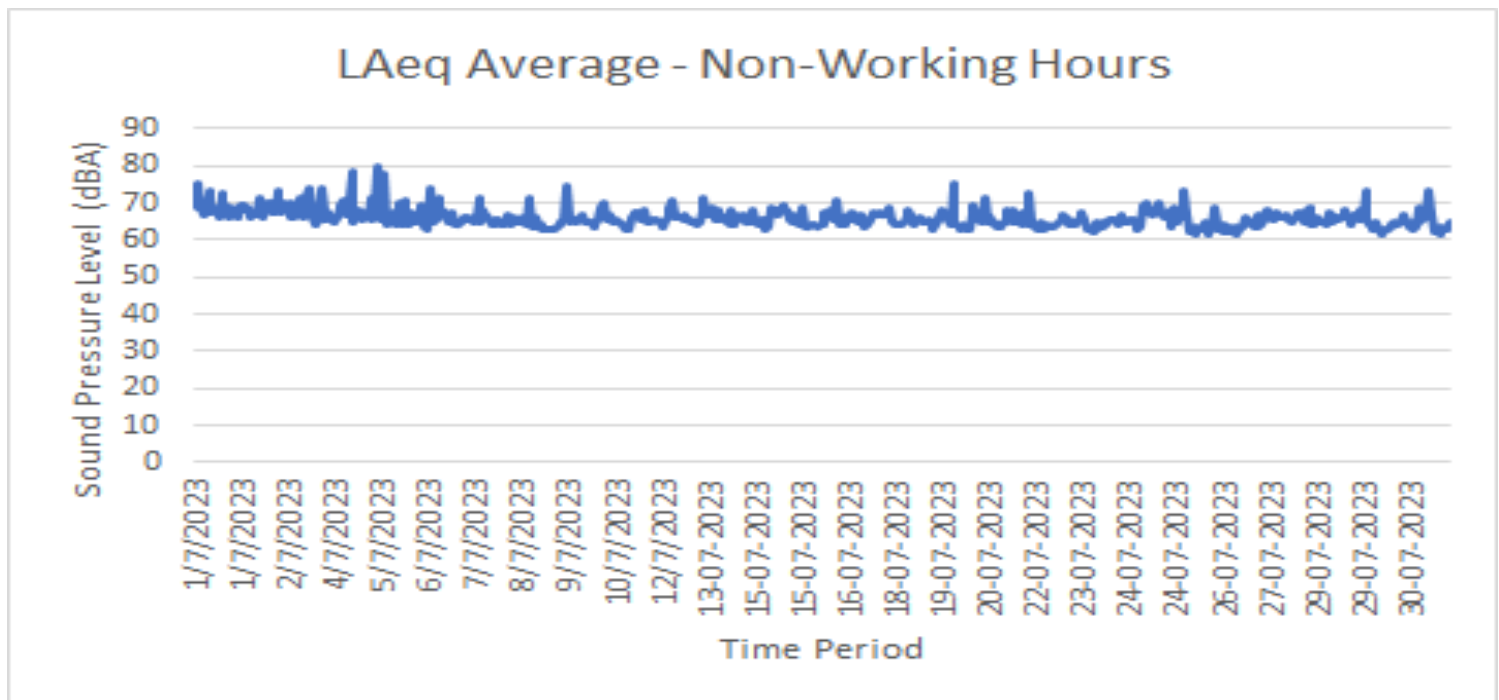
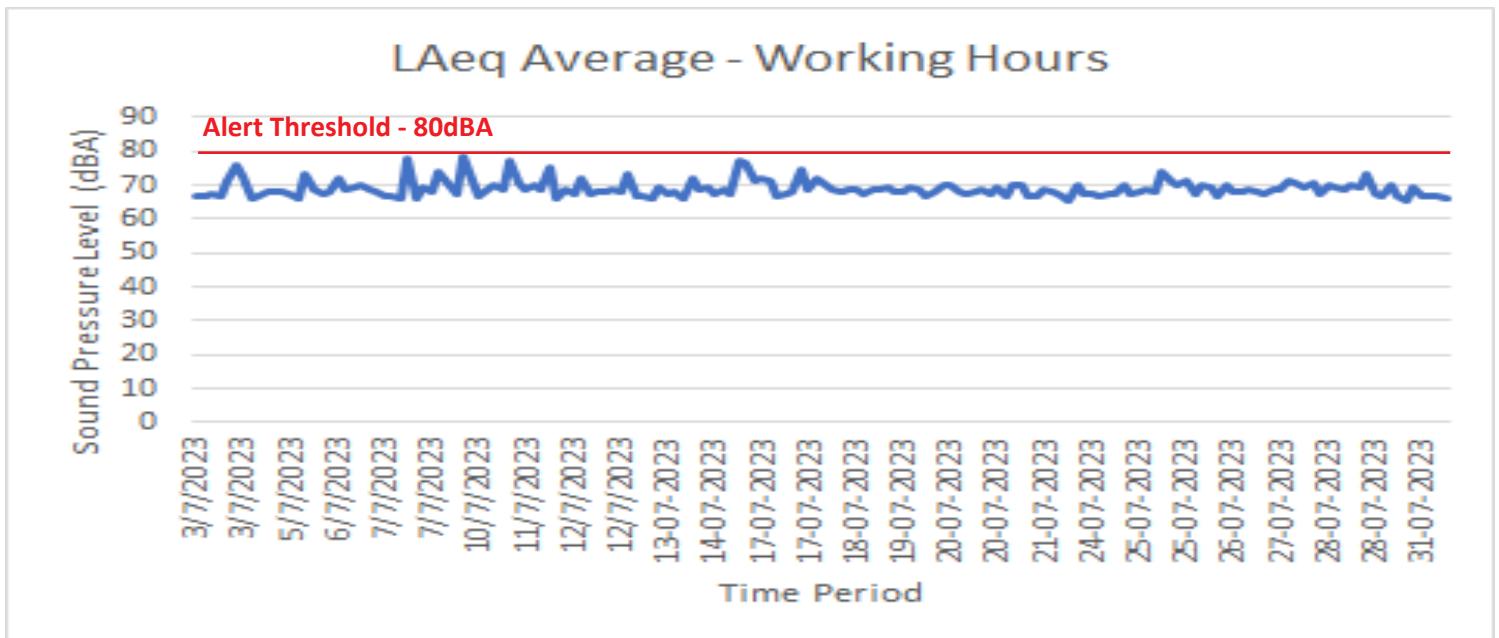
**Not Available**



Noise Monitoring Unit #1674 - (Smith Street) – July 2023:

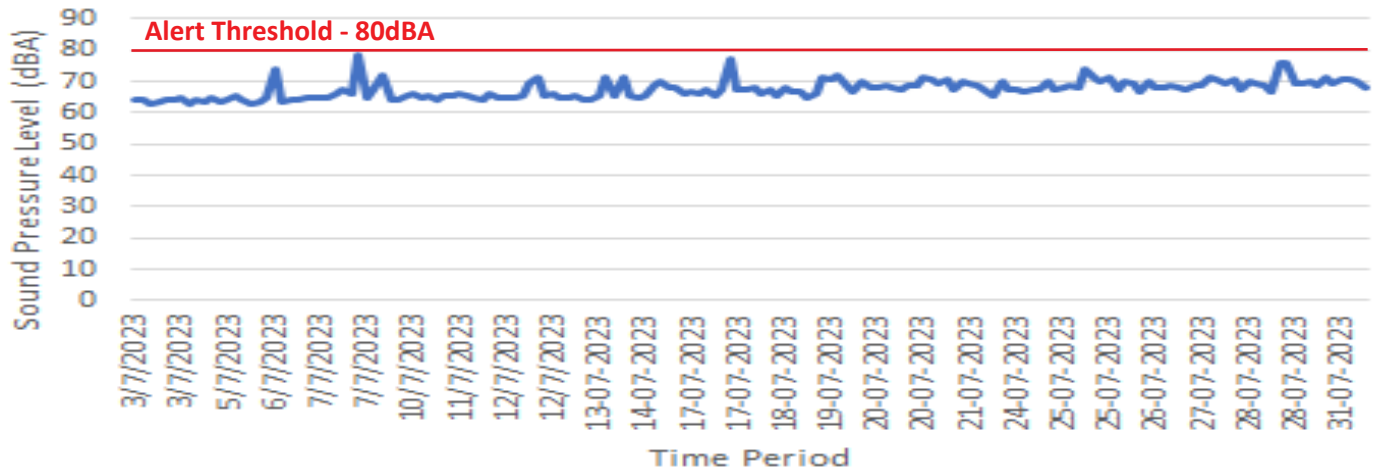


Noise Monitoring Unit #1493 - (Boerum Street) – July 2023:

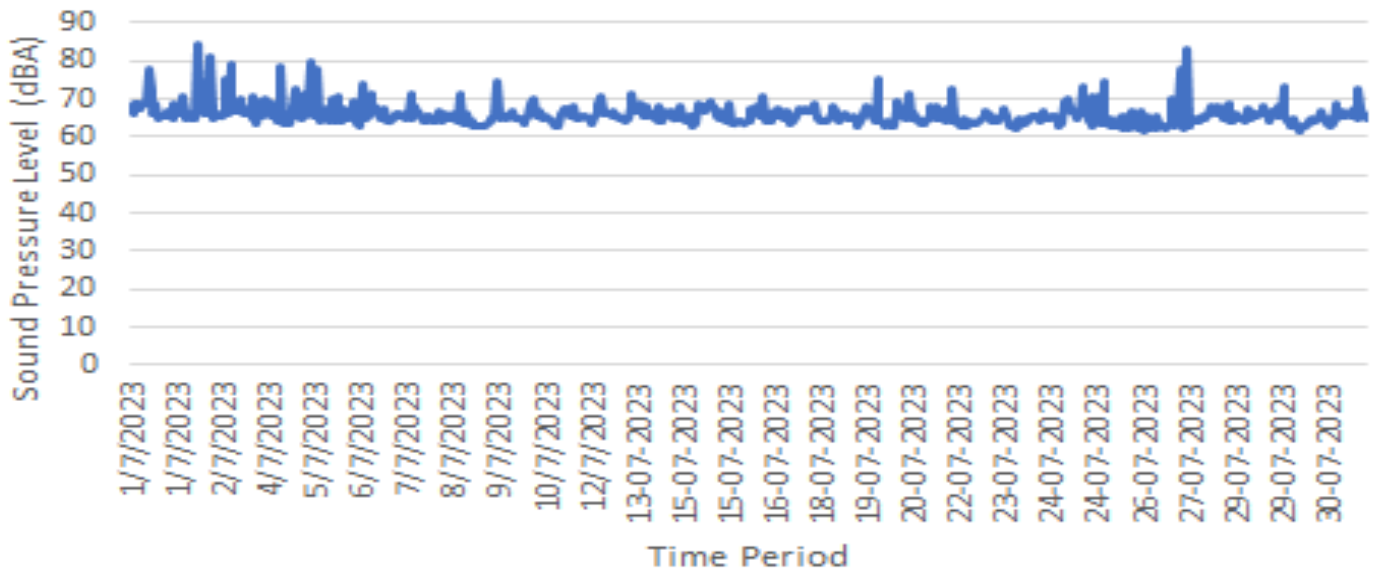


Noise Monitoring Unit #1494 - (State Street) – July 2023:

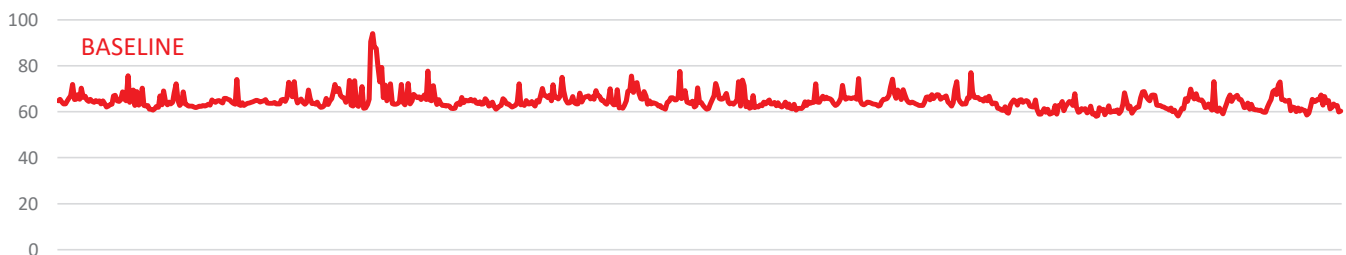
### LAeq Average - Working Hours



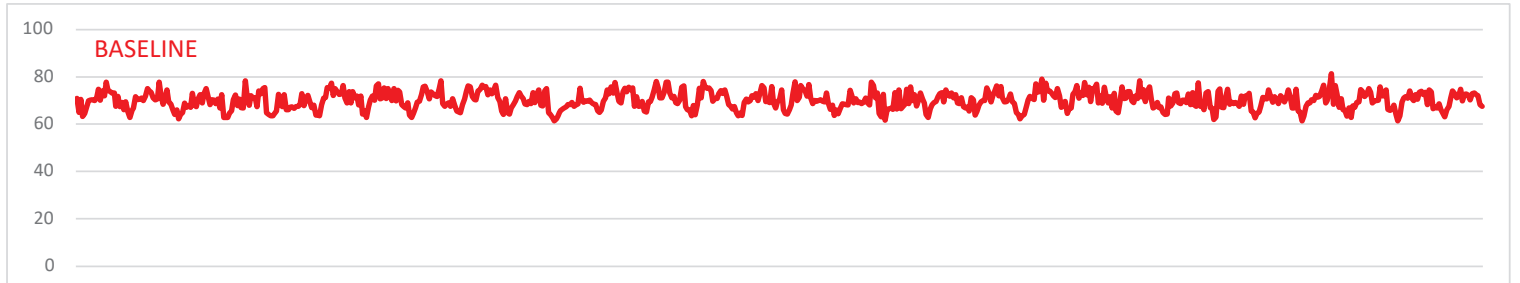
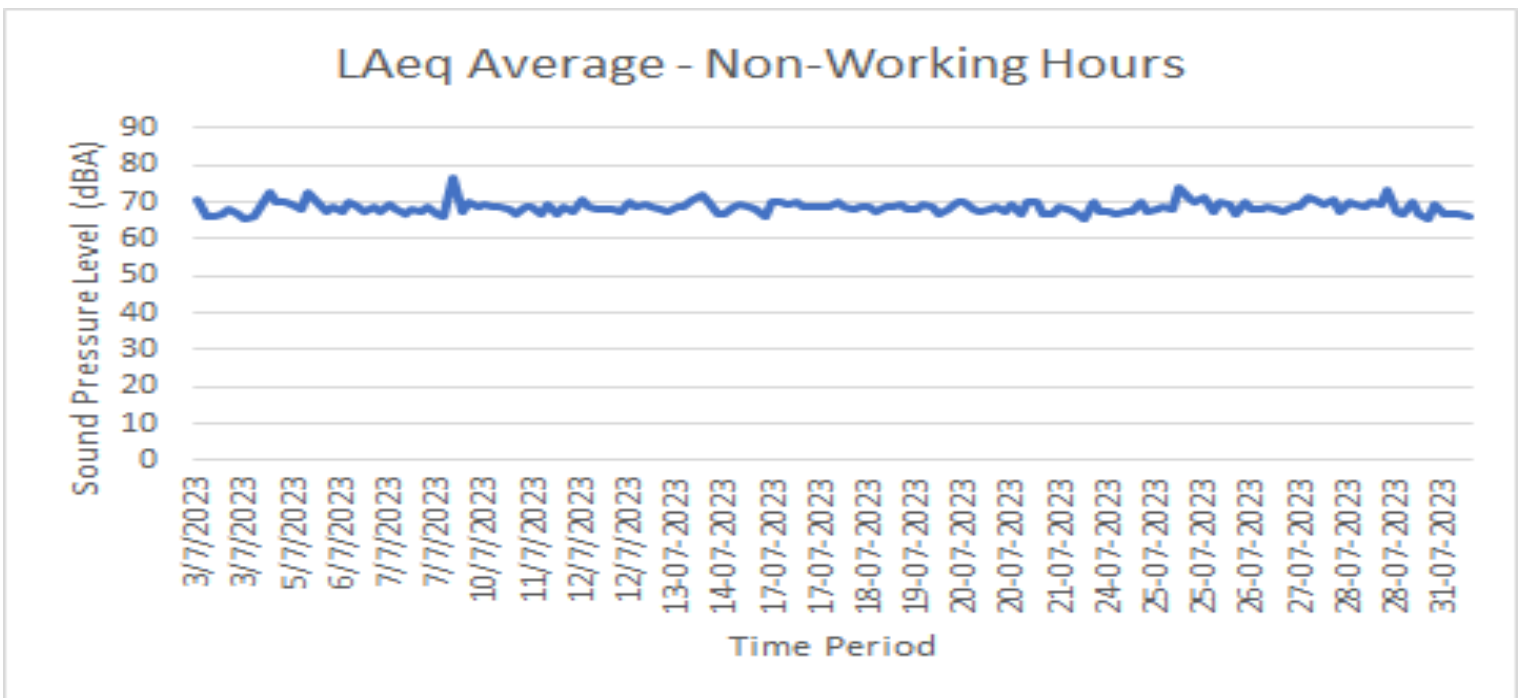
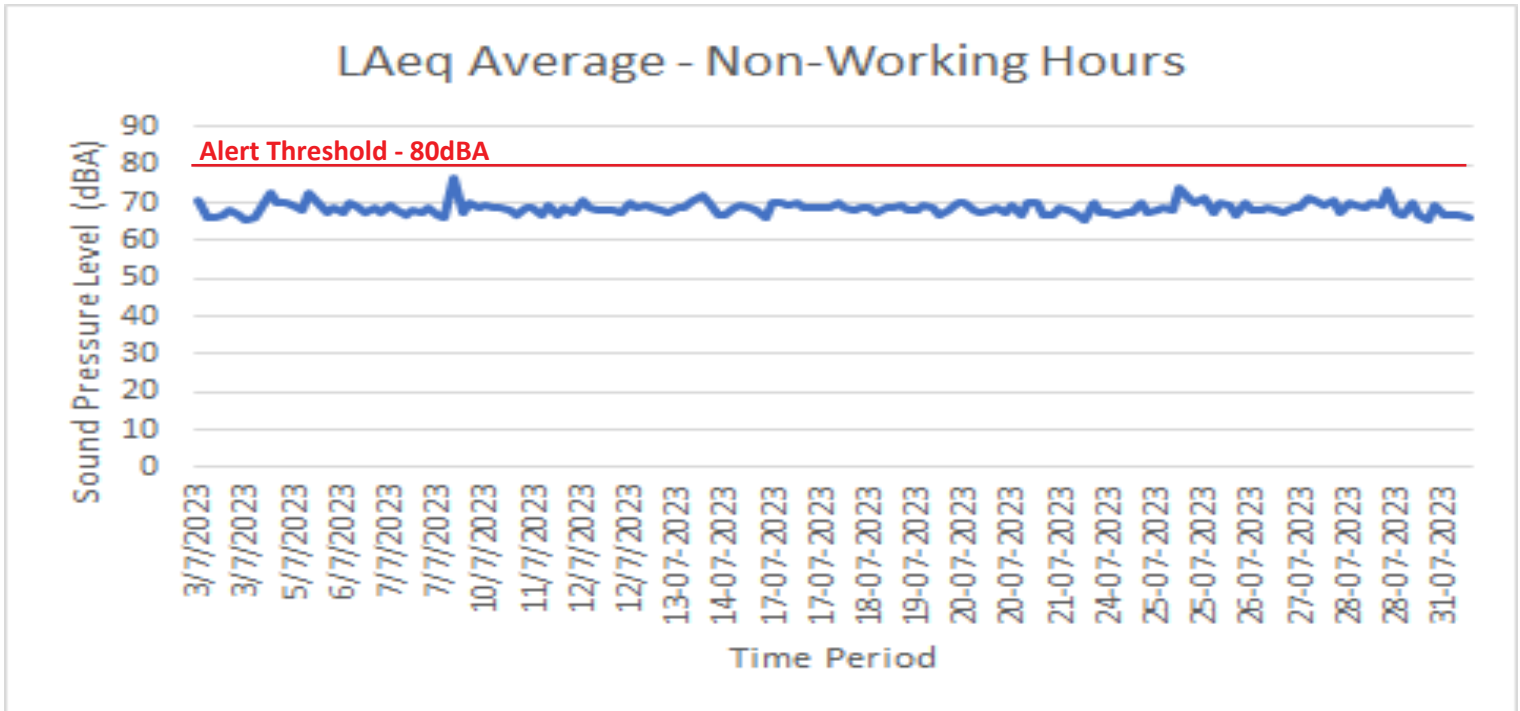
### LAeq Average - Non-Working Hours



### BASELINE



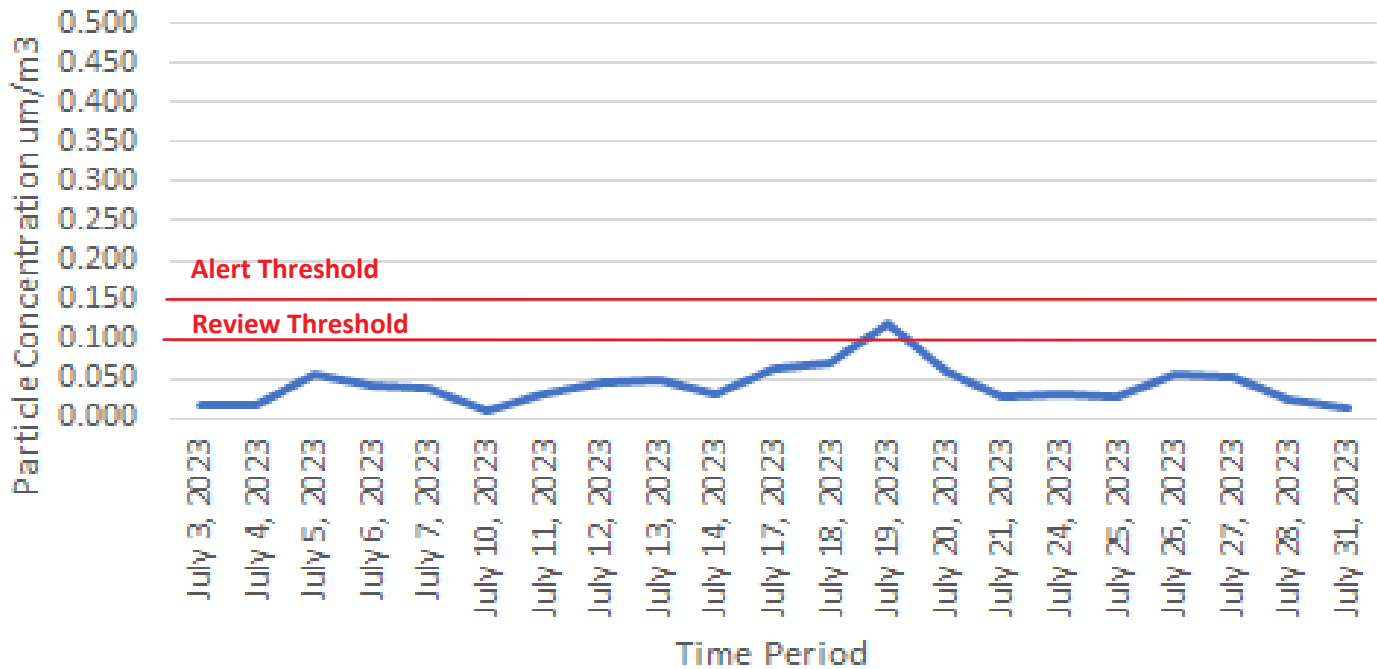
Noise Monitoring Unit #1532 - (Atlantic Avenue) – July 2023:





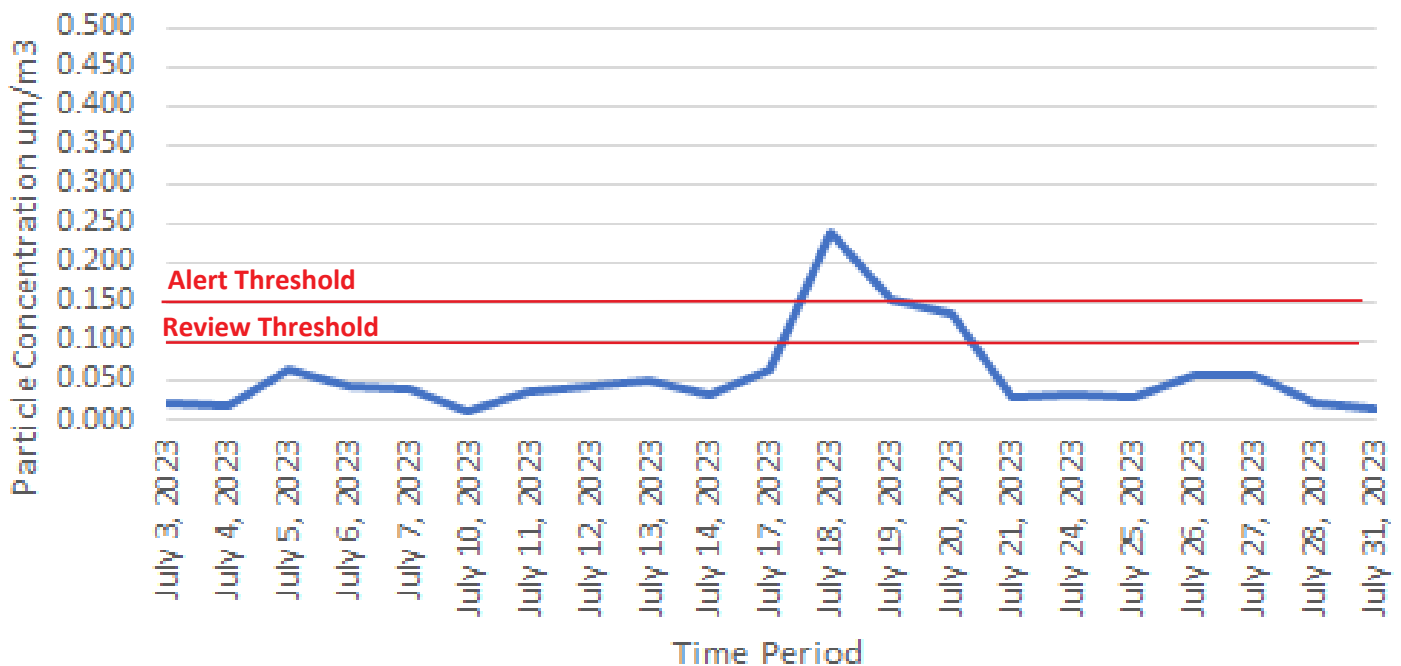
Dust Monitoring Unit – NW Corner – July 2023:

### NW Boerum/State (Work Hours)

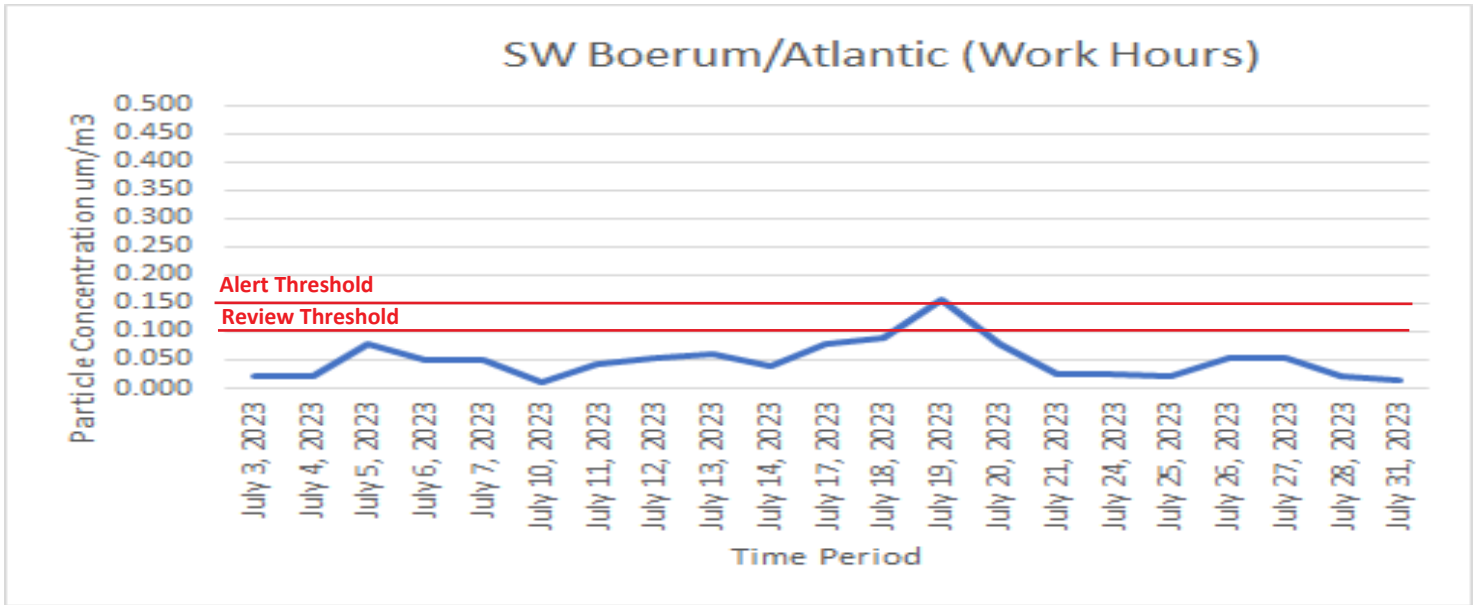


Dust Monitoring Unit – SE Corner – July 2023:

### SE Smith/Atlantic (Work Hours)



Dust Monitoring Unit – SW Corner – July 2023:



Dust Monitoring Unit – NE Corner – July 2023:

