

AIR, NOISE AND VIBRATION MONTHLY MONITORING REPORT Number 001

Prepared By:

DDC. Project ID:	BBJ K-DSS		Period Start: 10/01/23 End 10/31/23					
Project Name:	NYC Borough Based Jails System – Brooklyn Dismantle and Swing Space Proj			tle 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	lumber of Air Monitoring Days in a Month	Number of Days with Dust Concentrations above Action Concentrations by Month (100 ug/m³ 15-minute TWA)		Comments				
22	31	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								
	Maximum Dust Reading Before Corrective Action 15 Minute TWA (ug/m³)	Maximum Dust Reading After Corrective Action 15 Minute TWA (ug/m³)		Corrective Action				
Narrative Summary of	of Air Monitoring, Excursion	ons and Corrective A	Actions:					

During the month of October 2023, 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.



Units are weighted decibels (dBA) level

2) Community Noise Monitoring Monthly Summary

Number of Workdays in a Month	Mor	nber of Noise nitoring Days n a Month	Number of Days with Noise Levels above Action Levels by Month		Comments		
22		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: Tim	e	Maximum Noise I before Corrective (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.		
Namative Cure	.m. of NI-:-	A Manitarina Cur	unaia na an	ad Compostive Actions			
Narrative Summary of Noise Monitoring, Excursions and Corrective Actions:							

During the month of October 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.

rodents, heavy footsteps on metal cover plates, or debris from street falling into shaftway.



October 10, 2023; 11:48AM

3) Community Vibrati Units are inches per second (in	ion Monitoring Monthly /sec)	Summary					
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				
22	31	1	Please see below				
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 Exceedance Level (in/sec)	Ambinet Vibration Level after Exceedance Recorded (in/sec)	Corrective Action				
			No deconstruction work taking place within 90' of sensor, trigger could have been				

0.031 in/s

Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:

0.764 in/s

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. The monitor in front of the Courthouse was located in an access shaft in the sidewalk, under 2 metal hatch doors. The monitor is a highly sensitive instrument, so it records vibrations from heavy impact from footsteps, scooters, etc. on the metal access shaft cover plates, bits of debris dropped down the shaftway, rainfall, etc. $\,$ as well as potential vibrations from the deconstruction across the street. Furthermore, the deconstruction work is greater than 90' away from the monitor, so allowing for dissipation of any vibration over distance, the source of the exceedances is more likely to be local than from that distance. Therefore, the exceedance recorded is discounted as being due to other factors than the dismantling. During the month of October 2023, vibration monitoring was ongoing throughout the entire month at the project site and vibration monitoring devices were in continuous operation at the project site recording construction-related vibration levels measured in inches per second (in/sec) or IPS. On October 10, 2023, an action-level vibration threshold exceedance was recorded 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.

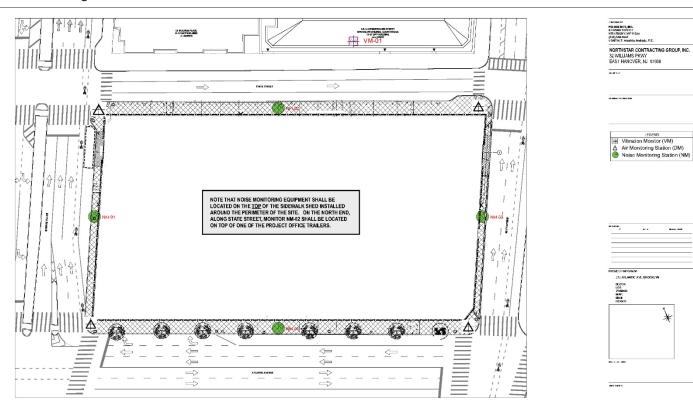
No corrective actions or mitigations measures were required this month as the alert was triggered due to manual disturbance of the sensor.

ATTACHMENTS:

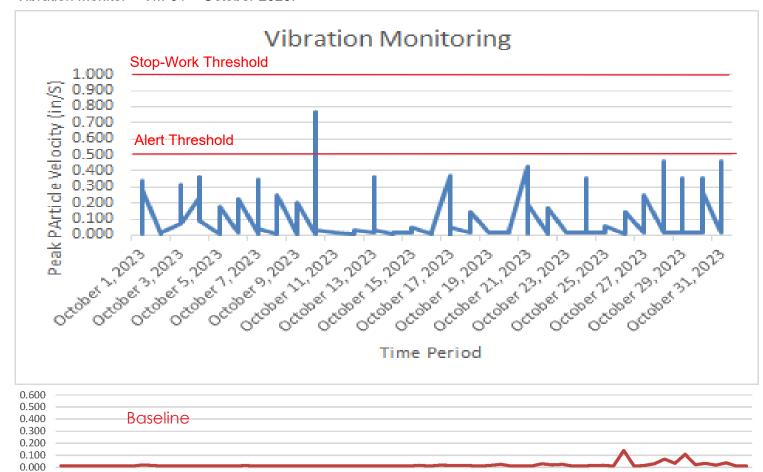
- 1 Map of monitoring station/locations
- 2 Data Plots (Please add title to all the graphs)
- 3 Baseline Reference



Map of Monitoring Locations:

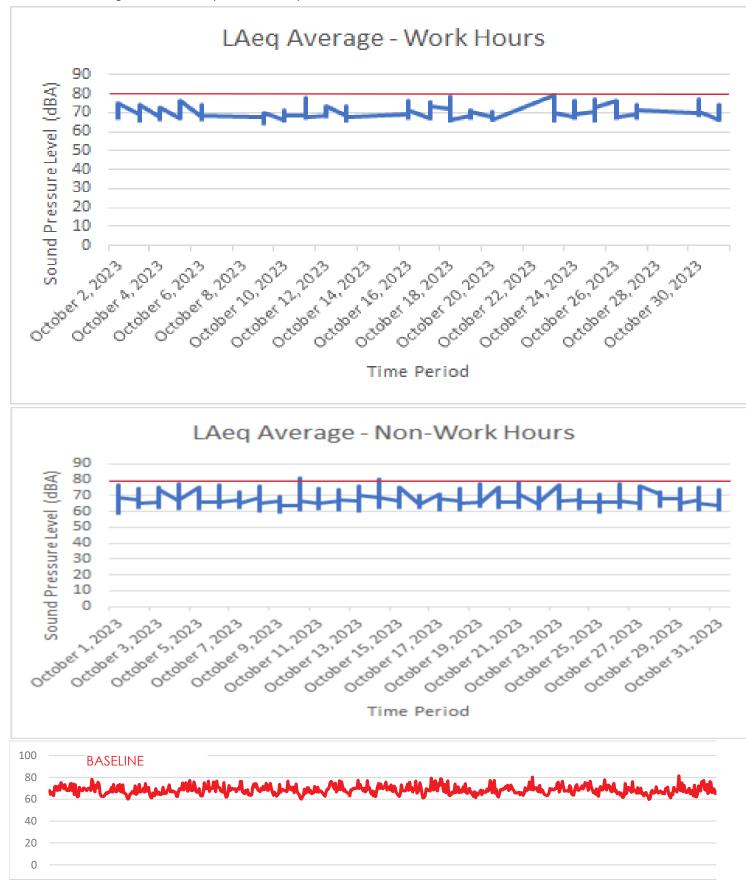


Vibration Monitor - VM-01 - October 2023:



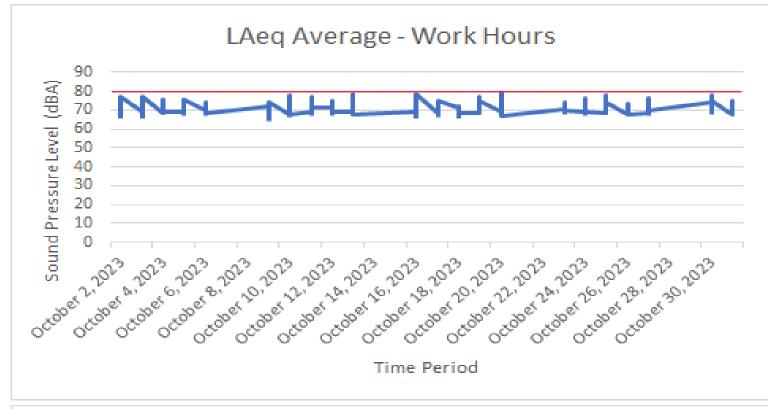


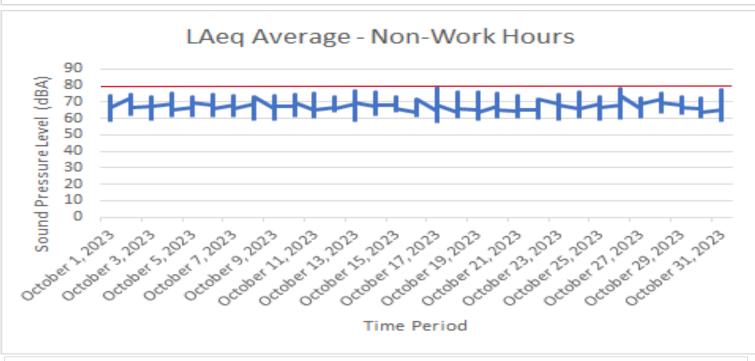
Noise Monitoring Unit #1674 - (Smith Street) - October 2023:





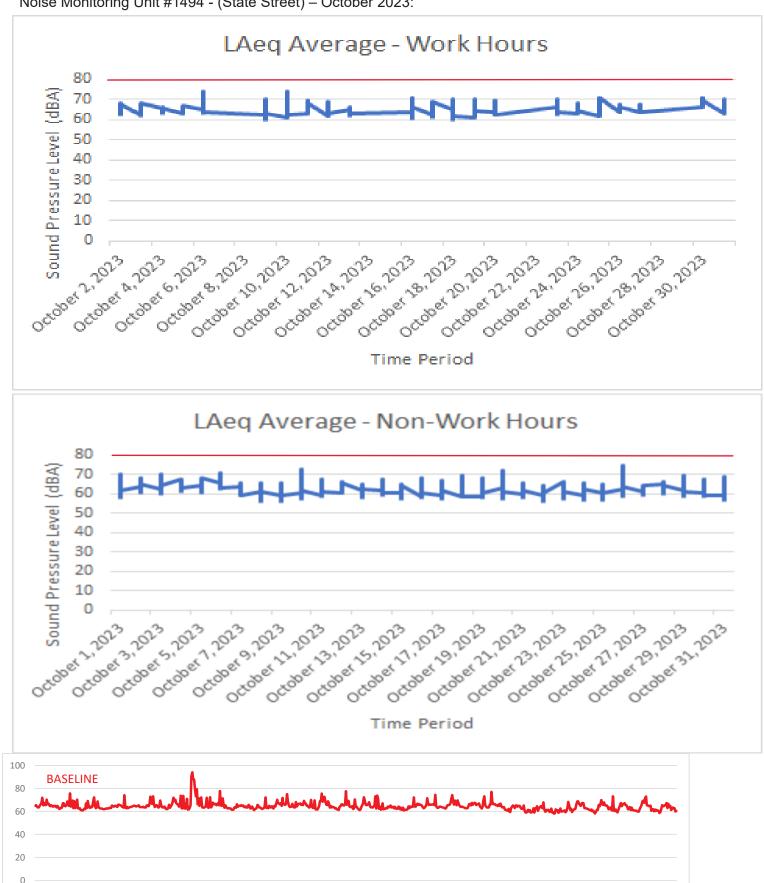
Noise Monitoring Unit #1493 - (Boerum Street) - October 2023:



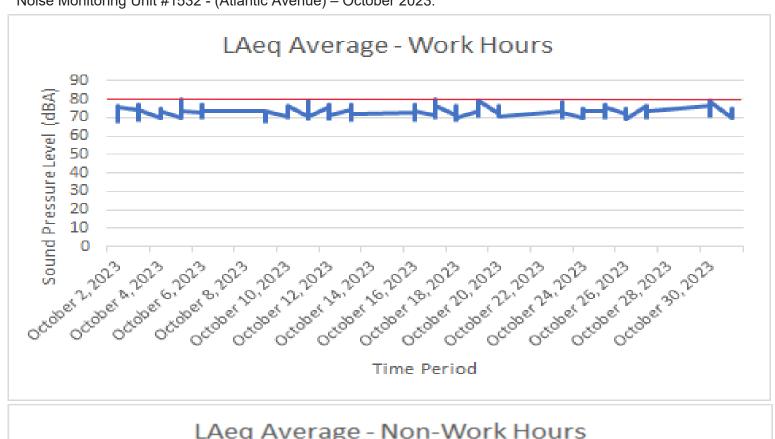


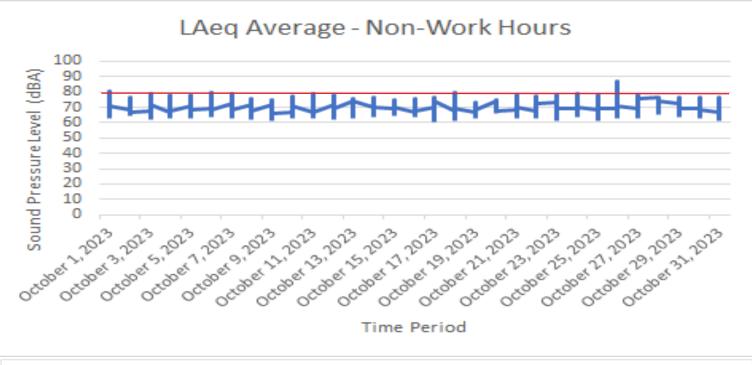


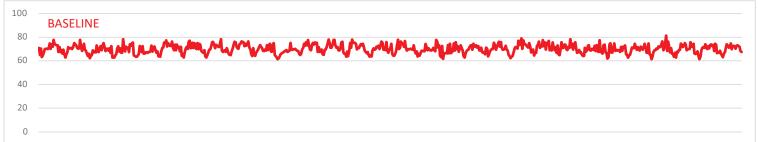
Noise Monitoring Unit #1494 - (State Street) - October 2023:



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

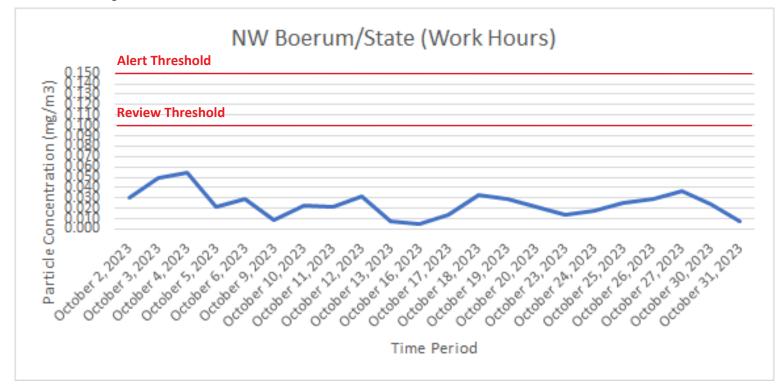




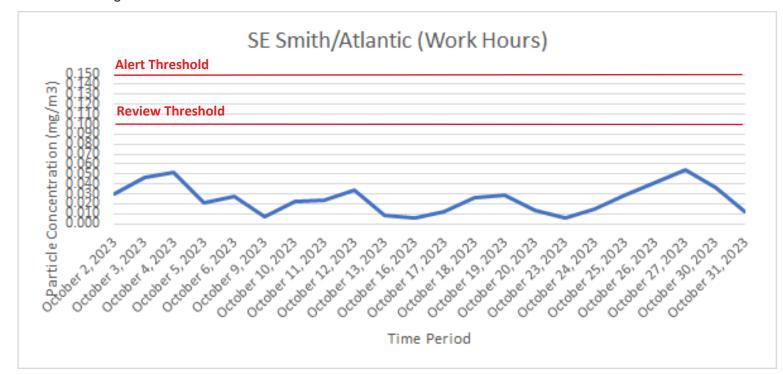




Dust Monitoring Unit – NW Corner – October 2023:



Dust Monitoring Unit – SE Corner – October 2023:





Dust Monitoring Unit – SW Corner – October 2023:

