

### AIR, NOISE AND VIBRATION MONTHLY MONITORING REPORT

DDC Project	No.: BBJ Q DSS		Period Start: 01/01/24 End 01/31/24
DDC Pin No.	: 8502020CR0046P		
Project Nam	e: NYC Borough Based Jails Sys	stem - Queens Disman	tle and Swing Space
TWA – Time We	nity Air Monitoring Monthly S eighted Average hs per cubic meter	Status Summary	
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 (0.1 mg/m <sup>3</sup> 15 minute TWA)	Comments
25	23	None	Daily air monitoring was not performed on Jan 25 due to weather.
Action Concentr Stop Work Conc	Air Monitoring Monthly Excurs ation = 0.100 mg/m <sup>3</sup> 15 minute TWA ab entration = 0.150 mg/m <sup>3</sup> 15 minute TWA oncentration values vary daily. See Pres	ove background concentration A above background concent	on* ration*
Date: Time	Maximum Dust Reading Before Corrective Action 15 Minute TWA (mg/m <sup>3</sup> )	Maximum Dust Reading After Corrective Action 15 Minute TWA (mg/m <sup>3</sup> )	Corrective Action
1/8/24 10:07 AM	1.4	N/A	No corrective actions were necessary. The elevated dust levels reported by the downwind DCP station from approximately 10:07 to 11:00 were not representative of actual downwind air conditions and were attributed to a malfunction of the fixed downwind dust monitor. No visible dust was observed in the area during this period. A handheld roving meter was utilized this day to confirm that downwind dust levels were below the action levels.

In January 2024, dismantle related levels of Particulate Matter (PM) PM10 did not surpass Daily Permissible Exposure Limits (PEL) as set by federal standards for the 24-hour Time Weighted Average (TWA), or daily value, and did not cause air quality concerns to the public or on-site workers.

The Design Builder, Hunter Roberts Construction Group, in conjunction with the Design Builder's environmental specialist, has successfully implemented mitigation techniques at Action Level as well as Permissible Exposure Limits (15-Minute TWA) to suppress construction activity effects on air quality throughout the project work-zone.



	nity Noise Monitorin ighted decibels (dBA) level	g Montl	hly Summa	ary	
Number of Workday s in a 		Monitoring Days in a		Comments	
26	4			0	According to the monitoring plan for the site, the number of days performing noise monitoring (4) is above the requirement of (2) days
Noise Monitoring Noise Monitoring Noise Monitoring Noise Monitoring	Noise Monitoring Mon y Location 1 Action Level (Da y Location 2 Action Level (Da y Location 3 Action Level (Da y Location 4 Action Level (Da y Location 5 Action Level (Da	ay – 7 am ay – 7 am ay – 7 am ay – 7 am	to 5 pm / Nigh to 5 pm / Nigh to 5 pm / Nigh to 5 pm / Nigh	t – 5 pm to 7 an t – 5 pm to 7 an	n): 75 / NA n): 75 / NA n): 69 / 68 n): 65 / 55
Date Loca Time tion	Maximum Noise Reading before Corrective Action (dBA)	Maxim Reac Cor	num Noise ling after rective on (dBA)	Baseline Noise Leve Day/Night (dBA)	
Norrativo Sup	nmary of Noise Monitor	ing Evo	ursions and	Corrective	stions:

Throughout January 2024, noise levels remained below the set thresholds at all five locations. Dismantle-related activities in the month stayed within or below the warning limit at various locations. No corrective actions were required as noise levels didn't surpass the limits due to ongoing dismantle activities.

Nighttime Action Levels are established for three residential location, location #3, #4, and #5, in case dismantling activities are performed between 5 pm and 7 am.



nity Vibration M	lonitoring Mon	thly Summary	
		Number of Days with Vibration Levels above Action Levels by Month	Comments
26 26		3	
<b>/ibration Monito</b> rel = 0.3 in/s = 0.5 in/s	ring Monthly Ex	cursions and Correc	tive Actions
Maximum Vibration Level before Corrective Action (in/s)	Exceedance Duration	Maximum Vibration Level Followed Exceedance without Corrective Action (in/s)	Corrective Action
0.3	< 30 sec	< 0.1	N/A. There was no active demolition work at this time. The exceedance lasted for less than 30 seconds and were preceded and followed by a PPV less than 0.1 in/sec.
0.35	< 30 sec	< 0.1	N/A. There was no active demolition work at this time. Debris removal and backfilling activities were on going this day. This event did not exceed the stop work level. The exceedance lasted for less than 30 seconds and were preceded and followed by a PPV less than 0.1 in/sec.
0.81	< 30 sec	< 0.1	N/A. There was no active demolition work at this time. Debris removal and backfilling and compacting activities were on going this day. The exceedance lasted for less than 30 seconds and were followed by a PPV less than 0.1 in/sec. No exceedance was recorded before or after this one time event.
	Vibration Monito //ibration Monito	Number of Vibration Monitoring Days in a Month   26   /ibration Monitoring Monthly Exercises   /ibration Level before Corrective Action (in/s)   0.3 < 30 sec	Number of Vibration Monitoring Days in a Month with Vibration Levels above Action Levels by Month   26 3   Z6 3   Vibration Monitoring Monthly Excursions and Correct rel = 0.3 in/s = 0.5 in/s Exceedance Duration Maximum Vibration Level Followed Exceedance without Corrective Action (in/s)   0.3 < 30 sec

Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:

During the Month of January 2024, there was one vibration monitor exceedance caused by site backfilling activities at the vibration monitor location VM1 by Family Justice Center. This exceedance event lasted less than 30 seconds and the level returned to below the alert level threshold. No corrective action was necessary, as this event was instantaneous and did not repeat.

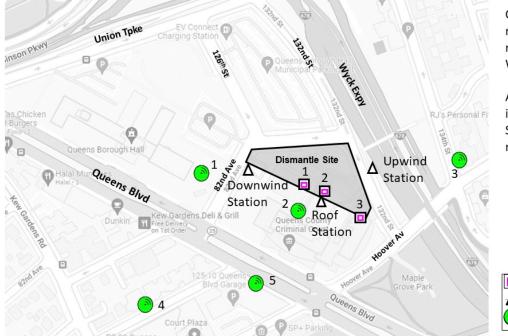
All other monitors showed results of vibration did not exceed the warning threshold of 0.3(in/sec) / stop work threshold of 0.5 (in/sec).

### ATTACHMENTS:

- 1 Map of Monitoring Station/Locations
- 2 Baseline Reference
- 3 Data Plots



# Environmental Monitoring Queens - 01/05/24



On 12/23/2023 per DDC/PMC's request, Upwind Station was relocated to Roof Station at DA Wing.

As of 01/05/2024 Roof Station is no longer utilized as Upwind Station. Upwind Station is restored at the sidewalk level.

- Vibration Monitor (VM)
- ▲ Air Monitoring Station (DM)
- Noise Monitoring Station (NM)

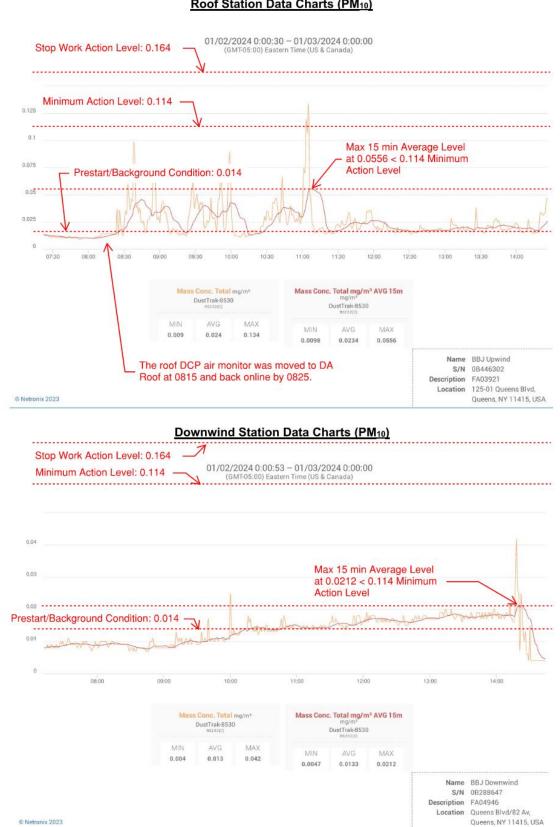
### Noise Threshold Limits in dBA – Baseline Survey April 2022

### **Construction Noise Threshold Limits in dBA**

Location	Daytime Leq	Nighttime L <sub>eq</sub>
Adjacent to the easternmost façade of Queens Borough Hall	75	N/A
At the southwestern corner of the DA Wing	75	N/A
At the residences along 134th Street between 82nd Avenue and Hoover Avenue	69	68
At the residences on 82nd Road between Kew Gardens Road and Queens Boulevard, approximately 200 feet from Kew Gardens Road	65	55
At the residences on Queens Boulevard between 82nd Road and Lefferts Boulevard	68	67



#### Dismantle Activity Daily Air Monitoring on January 02, 2024

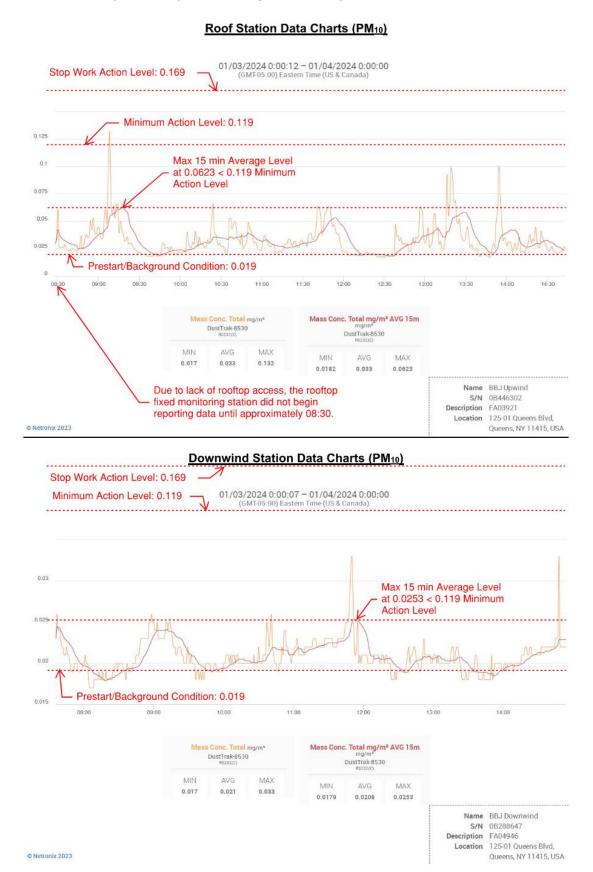


#### Roof Station Data Charts (PM<sub>10</sub>)

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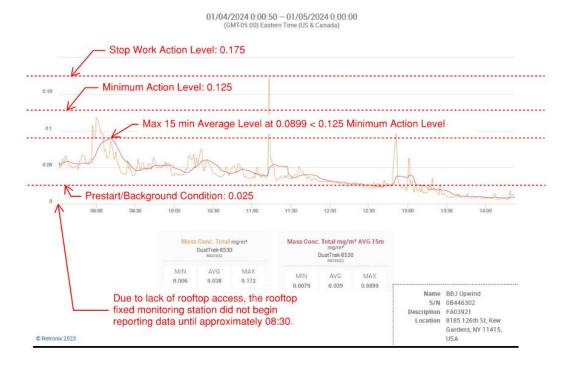
#### Dismantle Activity Air Daily Monitoring on January 03, 2024

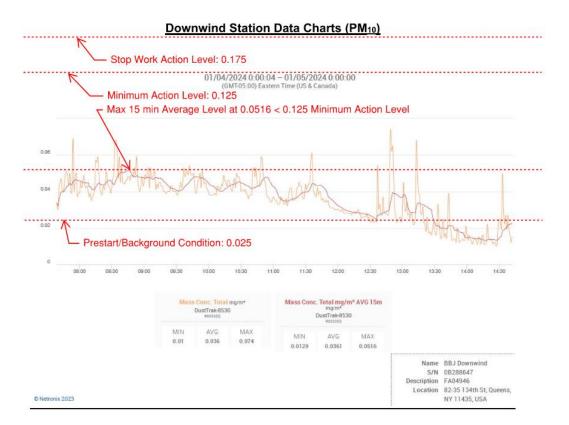




#### Dismantle Activity Daily Air Monitoring on January 04, 2024

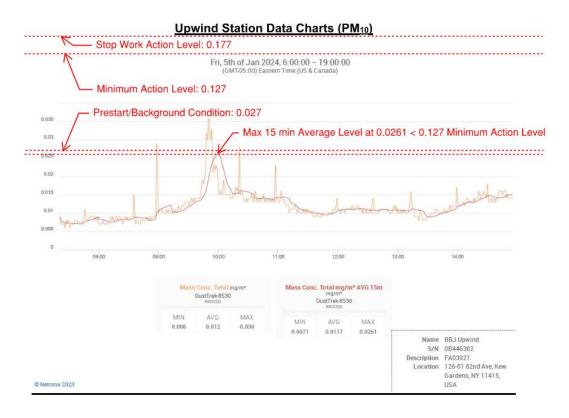
#### Roof Station Data Charts (PM10)



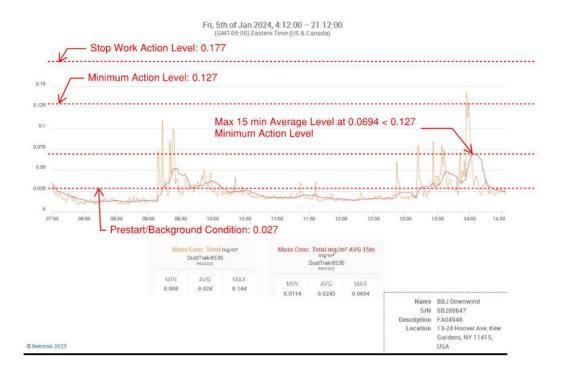




#### Dismantle Activity Daily Air Monitoring on January 05, 2024

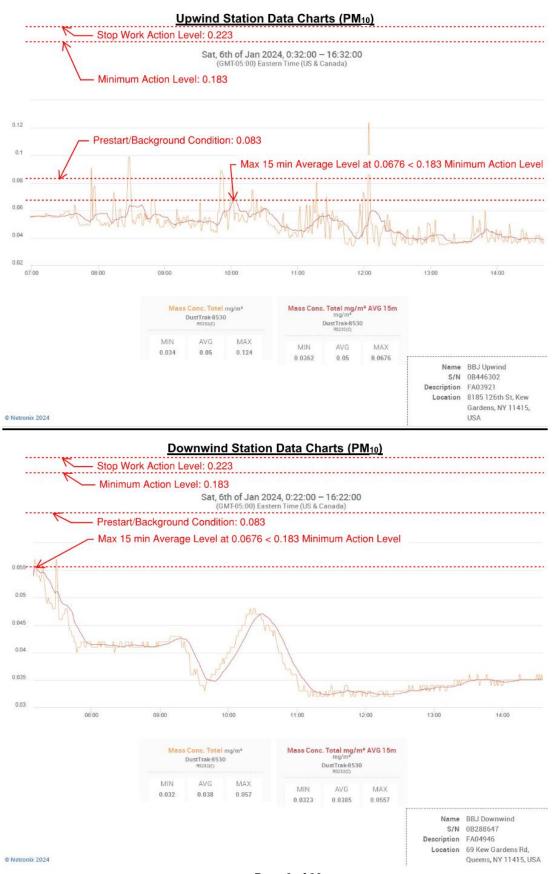


#### Downwind Station Data Charts (PM10)



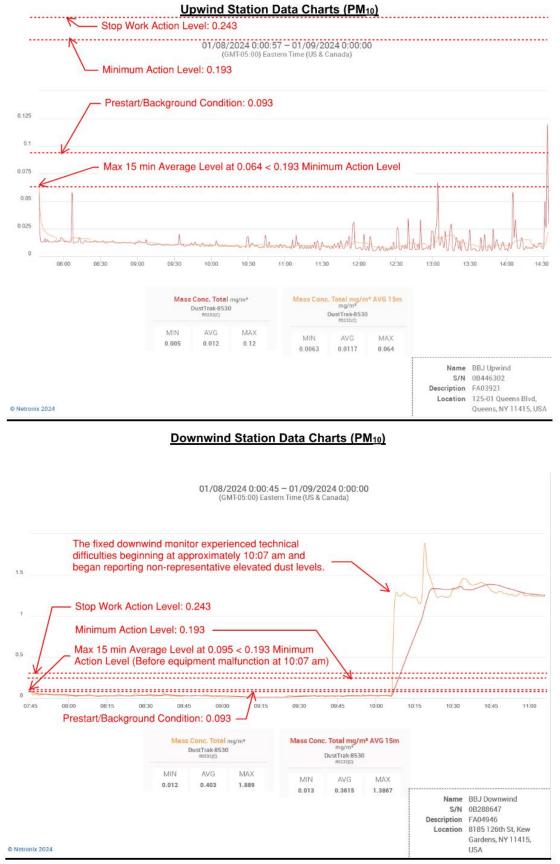


#### Dismantle Activity Daily Air Monitoring on January 06, 2024



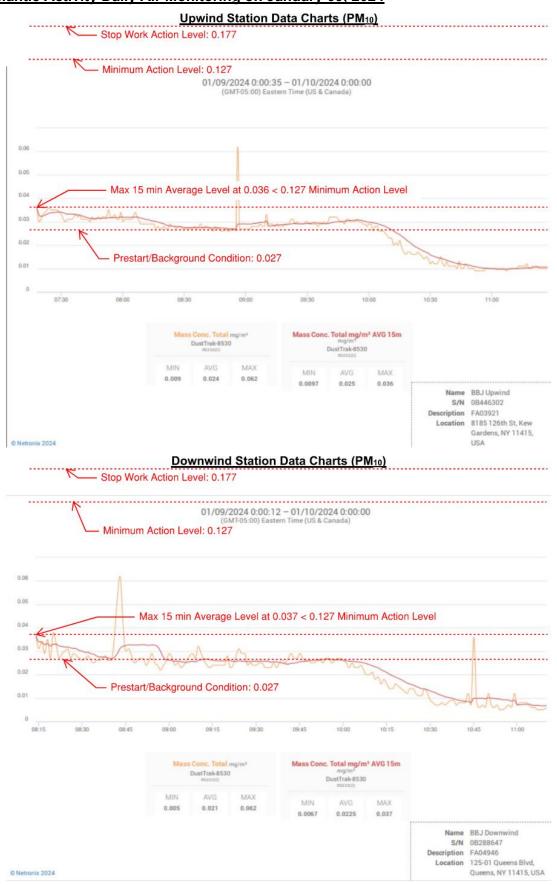


#### Dismantle Activity Daily Air Monitoring on January 08, 2024





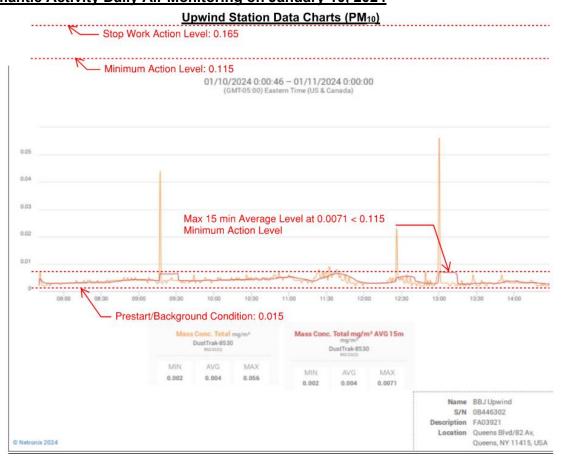
#### Dismantle Activity Daily Air Monitoring on January 09, 2024







#### Dismantle Activity Daily Air Monitoring on January 10, 2024



**Downwind Station Data Charts (PM10)** 

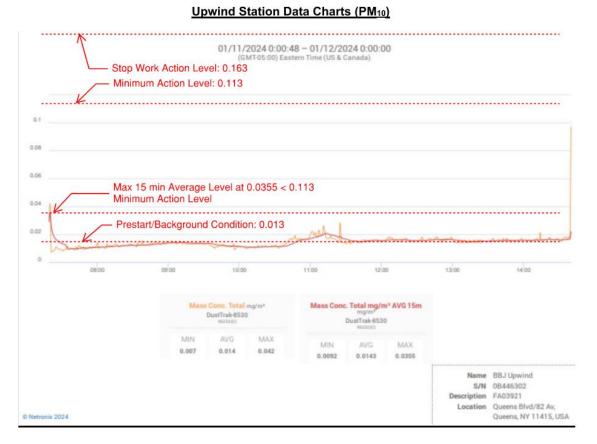


Page 12 of 33





#### Dismantle Activity Daily Air Monitoring on January 11, 2024

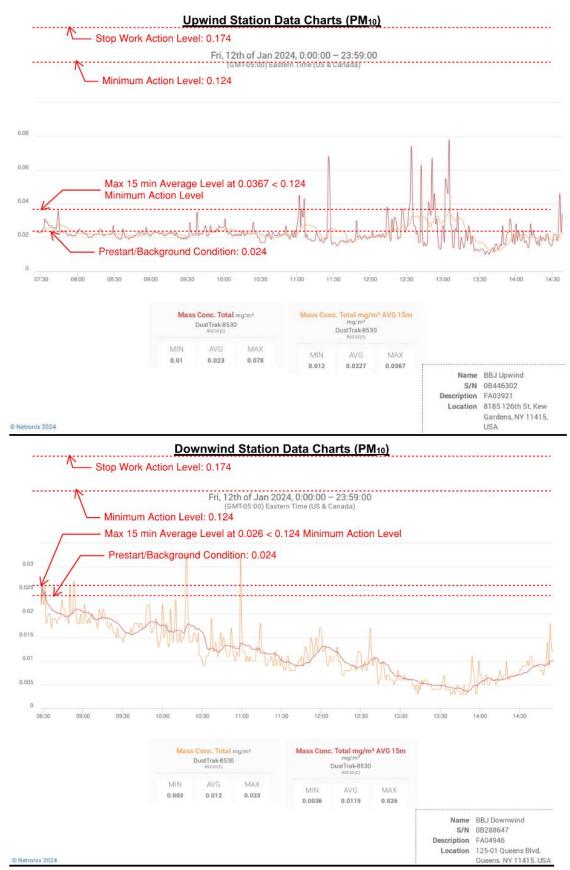


Downwind Station Data Charts (PM10)



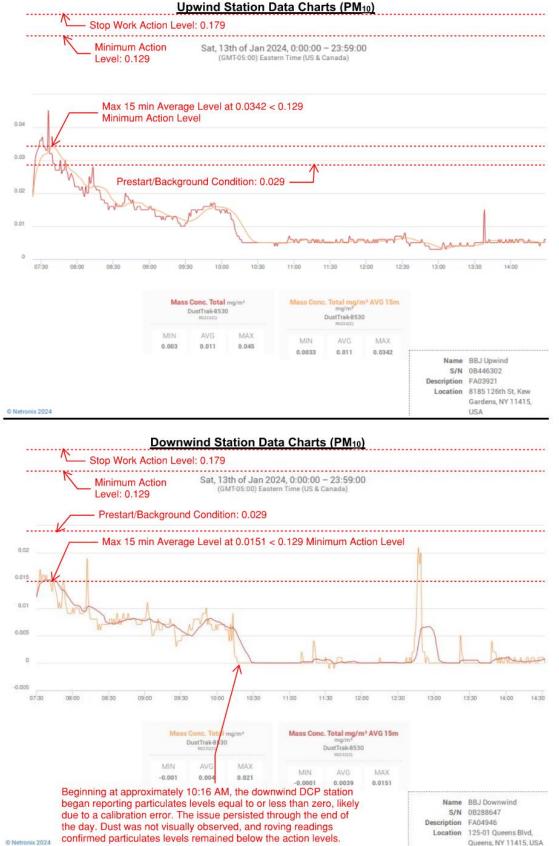


#### Dismantle Activity Daily Air Monitoring on January 12, 2024



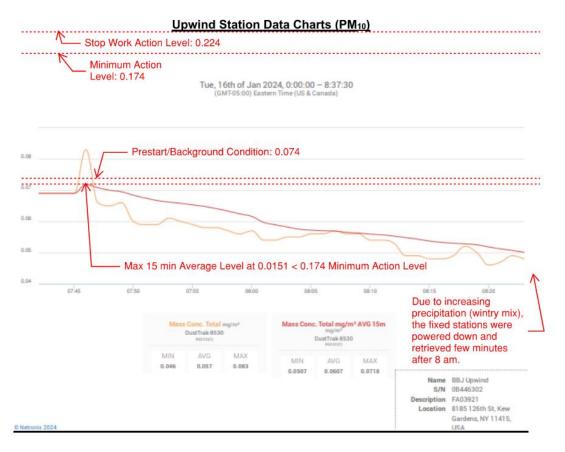


#### Dismantle Activity Daily Air Monitoring on January 13, 2024

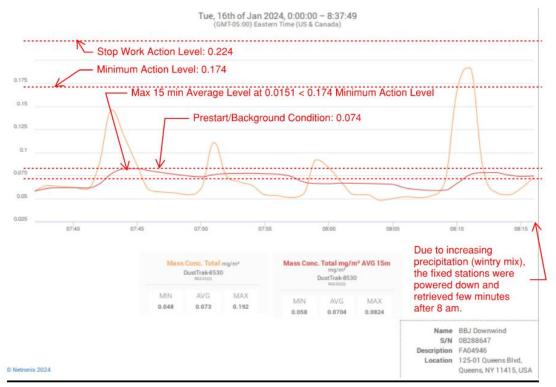




#### Dismantle Activity Daily Air Monitoring on January 16, 2024

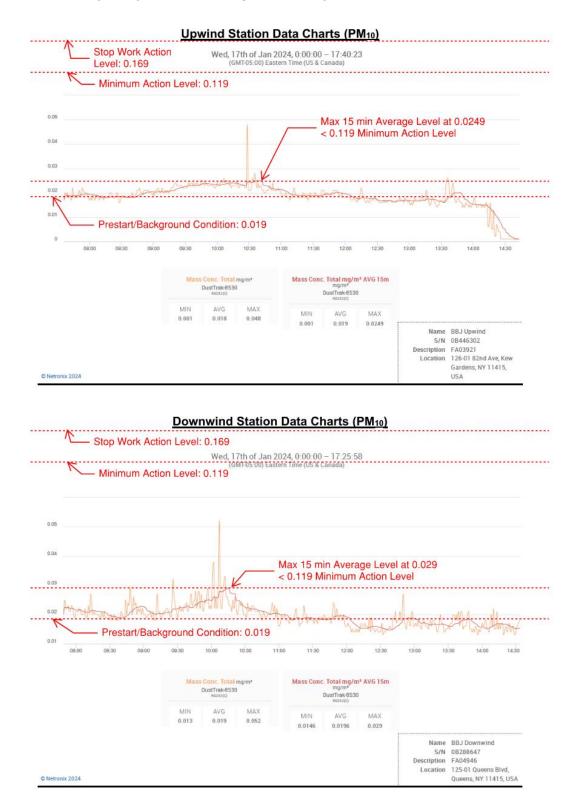


#### Downwind Station Data Charts (PM10)



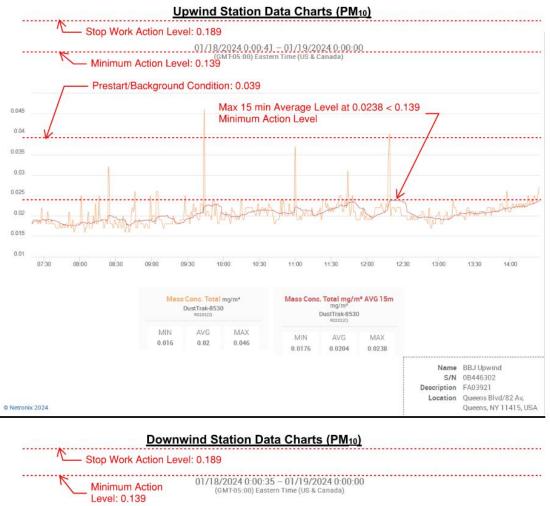


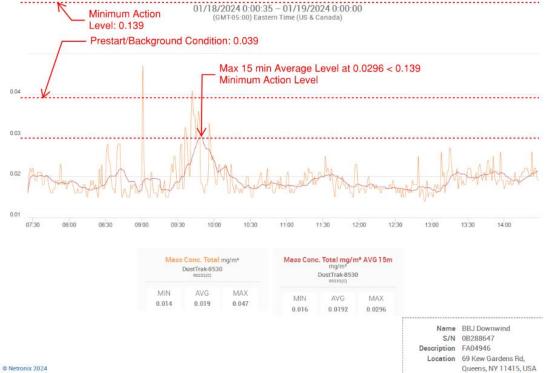
#### Dismantle Activity Daily Air Monitoring on January 17, 2024





#### Dismantle Activity Daily Air Monitoring on January 18, 2024

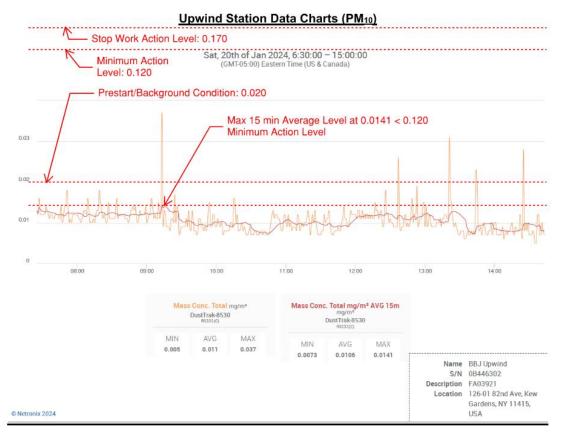




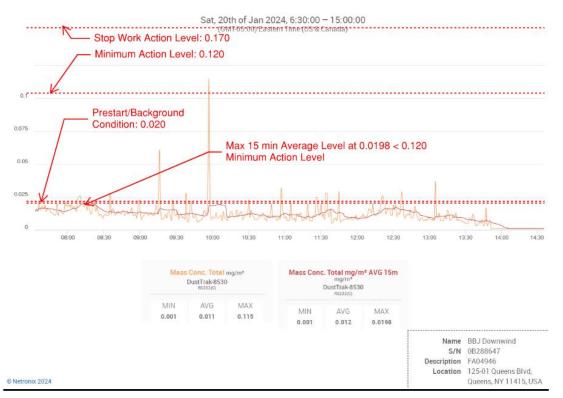


# AECOM-<mark>Hill</mark> J<mark>V</mark>

#### Dismantle Activity Daily Air Monitoring on January 20, 2024

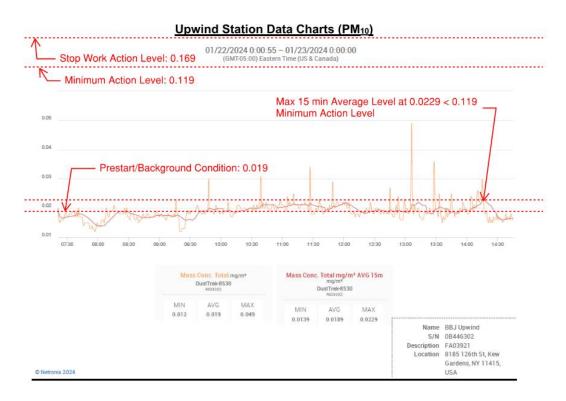


#### Downwind Station Data Charts (PM10)

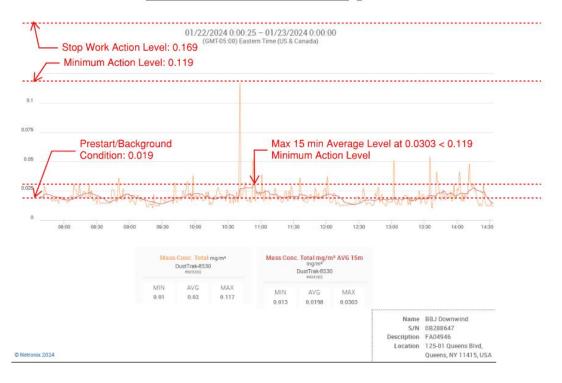




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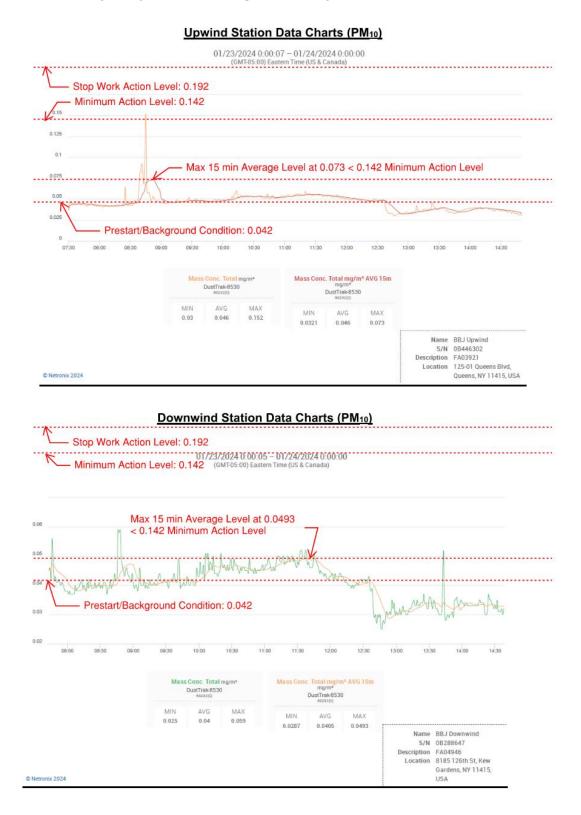


#### **Downwind Station Data Charts (PM10)**



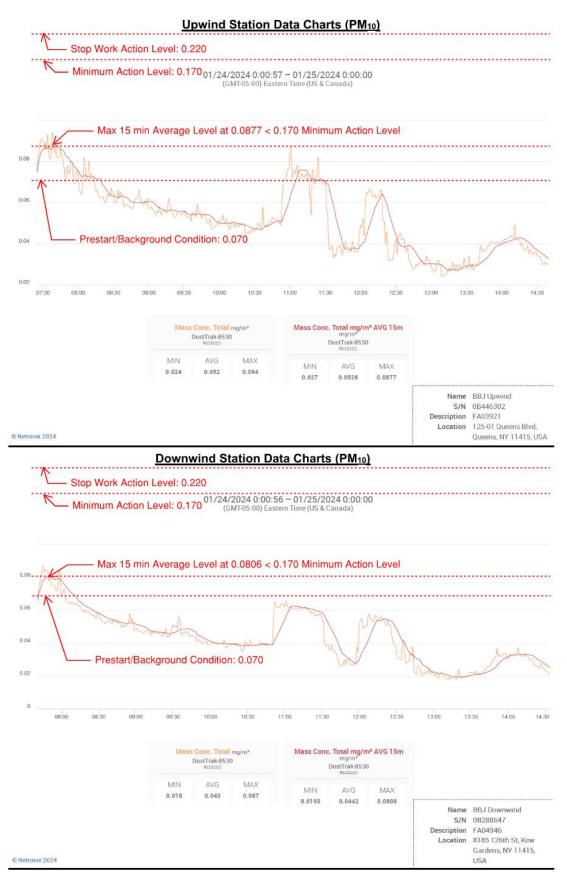


#### Dismantle Activity Daily Air Monitoring on January 23, 2024



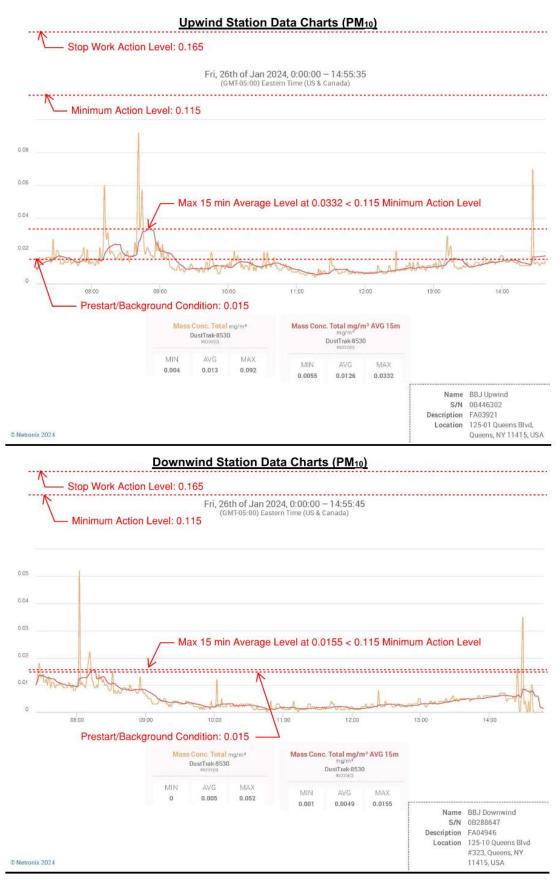


#### Dismantle Activity Daily Air Monitoring on January 24, 2024



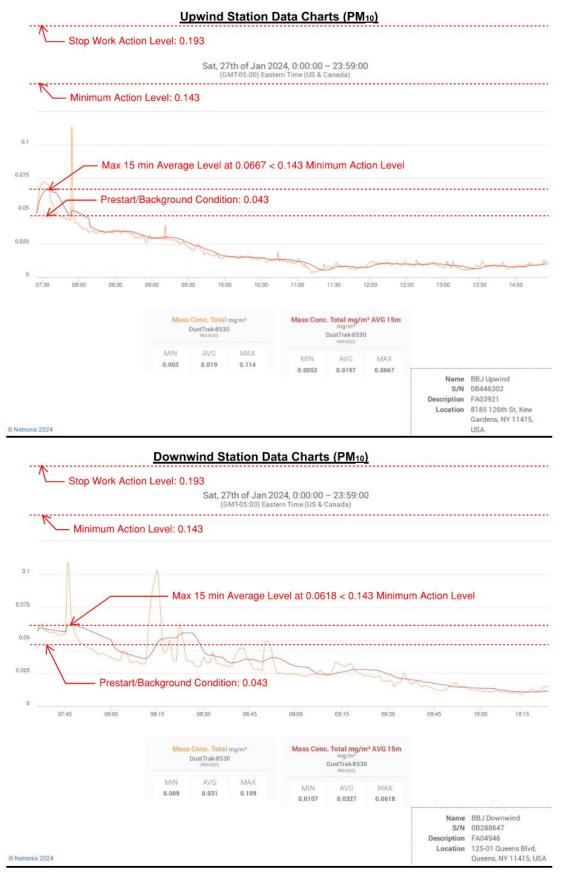


#### Dismantle Activity Daily Air Monitoring on January 26, 2024



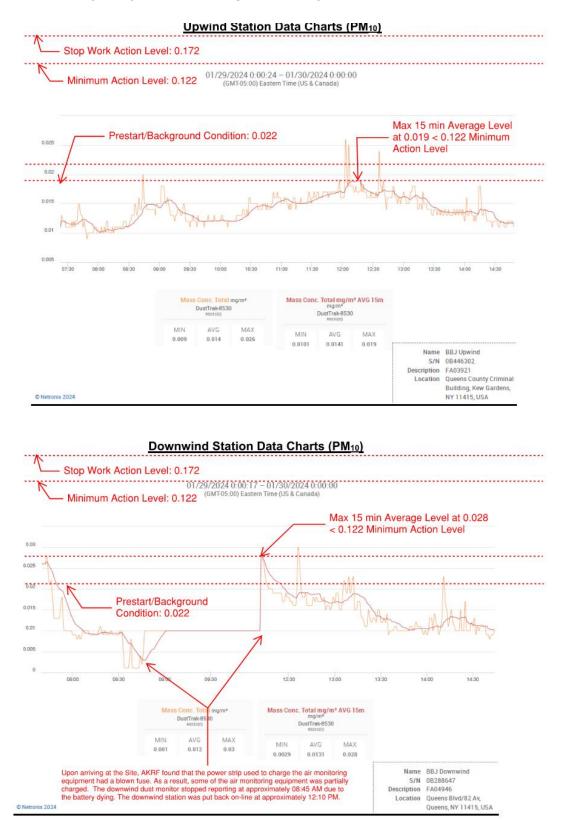


#### Dismantle Activity Daily Air Monitoring on January 27, 2024



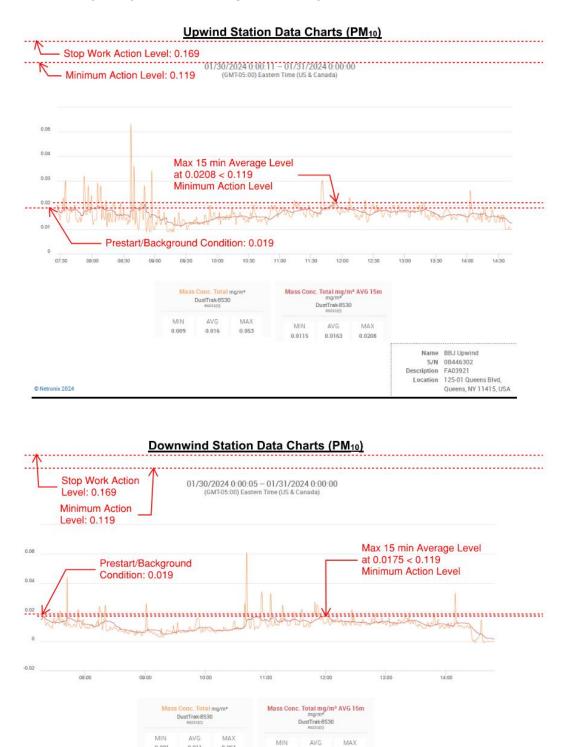


#### Dismantle Activity Daily Air Monitoring on January 29, 2024





#### Dismantle Activity Daily Air Monitoring on January 30, 2024



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-0.001

0.011

0.061

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0.0114

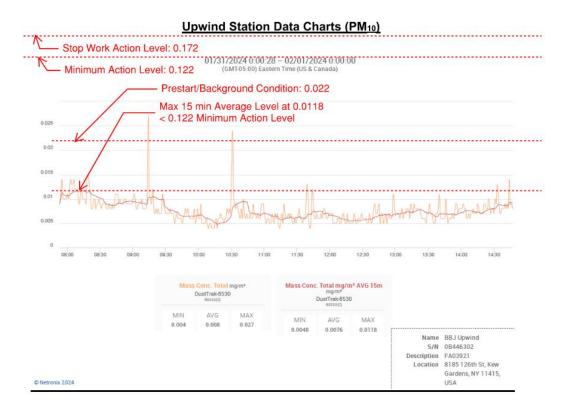
0.0175

Name BBJ Downwind S/N 0B288647 Description FA04946 Location 8185 126th St, Kew Gardens, NY 11415,

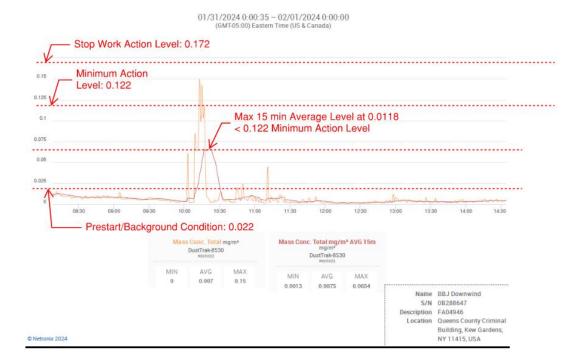
USA



#### Dismantle Activity Daily Air Monitoring on January 31, 2024



#### Downwind Station Data Charts (PM10)





### Noise Monitoring - Initial Five Days of Dismantle Phase V Continued in January 2024

Project: DDC Queens Dismantle &	Swing Space			
Date: 2 - 2 4 Tue	Weather:	Juny	29°F.	
Work Activities: full meth	Demo.	0	t	
Prepared by:				

NO.	Location	Time	Noise (dBA)	Noise Action Threshold (Day/Night)	Note
1	Queens Borough Hall	9:54	63	<75 dBA	Daytime noise action threshold not exceeded.
2	Southwest corner of DA wing	9:31	64 .	75 dBA	Daytime noise action threshold not exceeded.
3	Corner of 134 <sup>th</sup> ST and Hoover Ave.	11:06	68,2	69 dBA/ 68 dBA NA	Daytime noise action threshold not exceeded.
4	200 ft away from Kew Garden Road on 82 <sup>nd</sup> Road	10:21	63	<65 dBA/ <del>55 dBA - <b>NA</b></del>	Daytime noise action threshold not exceeded.
5	Between 82 <sup>nd</sup> road and 83 <sup>rd</sup> Ave on Queens Blvd	10:44	66	< 68 dBA/ 67 dBA NA	Daytime noise action threshold not exceeded.

Project: DDC Queens Dismantle & Swing Space

Date: 1-3-24	We	26	Weather:	40F	Sung.
Work Activities:	full	mech	Veno		
Prepared by:	Yuo				

NO.	Location	Time	Noise (dBA)	Noise Threshold (Day/Night)	Note
1	Queens Borough Hall	[0:25	63,2	75 dBA	Daytime noise action threshold not exceeded.
2	Southwest corner of DA wing	10:02	61 <	75 dBA	Daytime noise action threshold not exceeded.
3	Corner of 134 <sup>th</sup> ST and Hoover Ave.	12:35	68 <	69 dBA/ 68 dBA <mark>NA</mark>	Daytime noise action threshold not exceeded.
4	200 ft away from Kew Garden Road on 82 <sup>nd</sup> Road	12:58	63 <	65 dBA/ <del>55 dBA <b>NA</b></del>	Daytime noise action threshold not exceeded.
5	Between 82 <sup>nd</sup> road and 83 <sup>rd</sup> Ave on Queens Blvd	1:21	67 <	68 dBA/ 67 dBA NA	Daytime noise action threshold not exceeded.

Corrective Action: W/A .



### Noise Monitoring – Biweekly Follow Up during Dismantle Phase V

Project: DDC Queens Dis	mantle & Swi	ing Space		
Date: 1-10-24	wed	Weather:	54°F	Sump
Work Activities:	o walls	at sally po	rt	
Prepared by:				

NO.	Location	Time	Noise (dBA)	Noise Action Threshold (Day/Night)	Note
1	Queens Borough Hall	1:01	60.	<75 dBA	Daytime noise action threshold not exceeded.
2	Southwest corner of DA wing	12:38	62<	75 dBA	Daytime noise action threshold not exceeded.
3	Corner of 134 <sup>th</sup> ST and Hoover Ave.	1:28	68 <	69 dBA/ 68 dBA NA	Daytime noise action threshold not exceeded.
4	200 ft away from Kew Garden Road on 82 <sup>nd</sup> Road			65 dBA/ 55 dBA	
5	Between 82 <sup>nd</sup> road and 83 <sup>rd</sup> Ave on Queens Blvd			68 dBA/ 67 dBA	

Project: DDC Queens Dismantle & Swing Space

Date: 1 - 18	-2024	Thur	Weather	:	cloudy
Work Activities:	back fi	11 A	Remove	debris	
Prepared by:	Yaa				

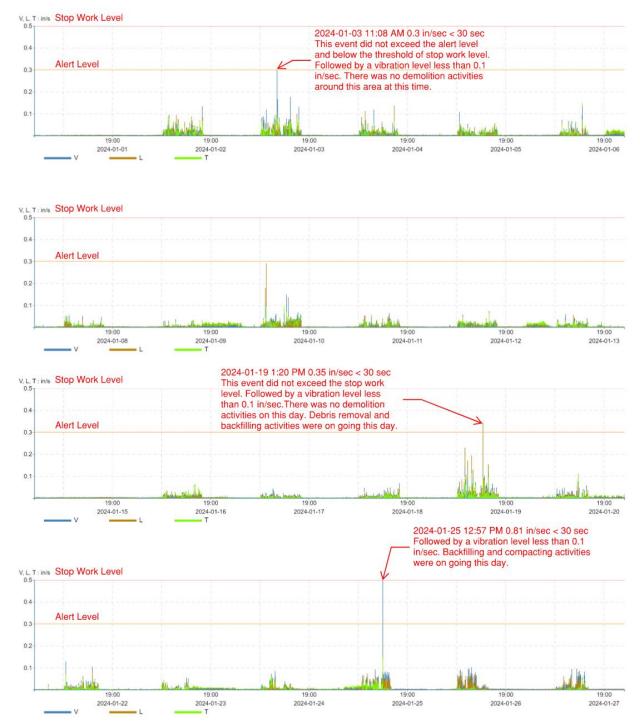
NO.	Location	Time	Noise (dBA)	Noise Action Threshold (Day/Night)	Note
1	Queens Borough Hall	10:26	63 <	75 dBA	Daytime noise action threshold not exceeded.
2	Southwest corner of DA wing	10:03	62 <	75 dBA	Daytime noise action threshold not exceeded.
3	Corner of 134 <sup>th</sup> ST and Hoover Ave.	10:53	68 <	69 dBA/ 68 dBA <mark>NA</mark>	Daytime noise action threshold not exceeded.
4	200 ft away from Kew Garden Road on 82 <sup>nd</sup> Road	11:21	64 <	65 dBA/ <del>55 dBA <mark>NA</mark></del>	Daytime noise action threshold not exceeded.
5	Between 82 <sup>nd</sup> road and 83 <sup>rd</sup> Ave on Queens Blvd	11:45	67 <	68 dBA/ 67 dBA <mark>NA</mark>	Daytime noise action threshold not exceeded.

Corrective Action: N/A

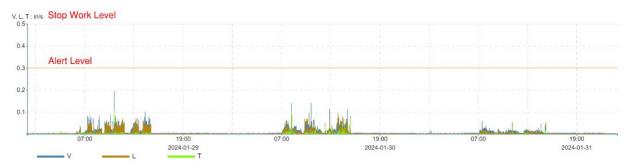


#### Vibration Monitor – VM1 January 2024

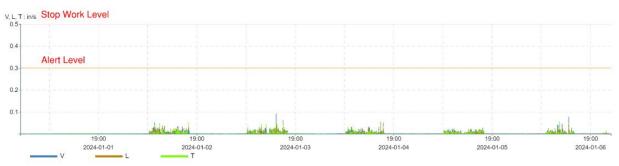
#### FAMILY JUSTICE CENTER - NORTHEAST CORNER

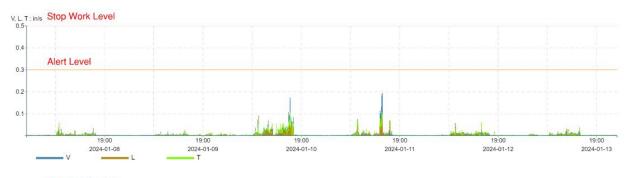


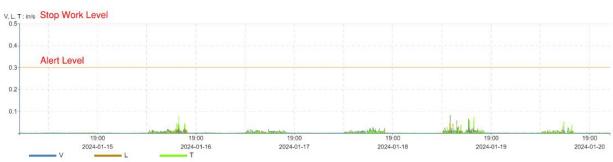


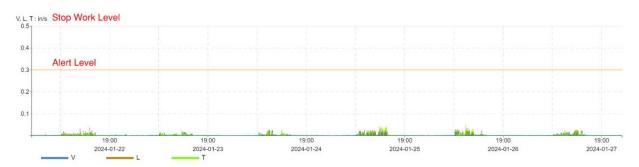


### Vibration Monitor – VM2 January 2024



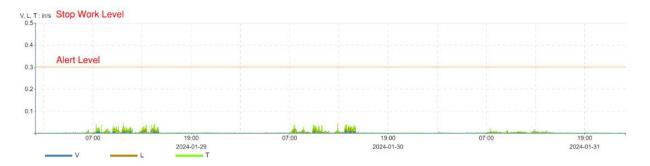






Page 31 of 33





### Vibration Monitor – VM3 January 2024

ANNEX – BASEMENT FIRE PUMP ROOM

