

**AIR, NOISE AND VIBRATION  
MONTHLY MONITORING REPORT  
Number 017**

Prepared By: Roux / Wang Technology

<b>DDC Project No.:</b>	BBJ-XSP	<b>Period Start:</b> 12/1/23 <b>End</b> 12/22/23	
<b>Project Name:</b>	NYCDDC D&B – The Bronx Site Preparation		
<b>DDC Pin No.:</b>	8502021CR0004P-06P		
<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
16	15	1	There was one 15-minute reading over the dust action level on 12/15 that is detailed below.  Air Monitoring not performed on 12/18 due to inclement weather.  Air monitoring was only set up on work days.
<b>Community Air Monitoring Monthly 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
12/15 12:36	0.131	0.041	An elevated reading above the dust action level was caused by street sweeper operating close to CAMP station. Work was temporarily stopped, and water was used to mitigate dust in the work area.
Narrative Summary of Air Monitoring, Excursions and Corrective Actions: <i>In December 2023, construction-related levels of Particulate Matter (PM) PM10 did not surpass the Daily Permissible Exposure Limits (PEL) as set by federal standards for the 8-hour Time Weighted Average (TWA) and did not cause air quality concerns to the community and/or onsite workers.</i>			

**2) Community Noise Monitoring Monthly Summary**

Units: A-weighted decibels (dBA)

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
16	16	2	There were three instances of noise levels above the 80 dBA limit. Two occurred on 12/13 and one on 12/18 and are detailed below.

**Community Noise Monitoring Monthly 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
12/13/23 10:20 am	82.91	78.37	Exceedance began at 10:20am and ended at 10:30 am due to a truck idling near the noise meter along E 142st St. Operator was asked to move as soon as possible.
12/13/23 10:40 am	81.55	76.08	Exceedance began at 10:40am and ended at 11:00 am due to a truck idling near the noise meter along E 142st St. Operator was asked to move as soon as possible.
12/18/23 10:00 am	82.20	75.01	Exceedance began at 10:00am and ended at 11:10 am due to a truck idling near the noise meter along E 142st St. Operator was asked to move as soon as possible.

Narrative Summary of Noise Monitoring, Excursions and Corrective Actions:

*In December 2023, construction-related levels of noise did surpass the limits of Local Law 113 during three occasions – two on 12/13/23 and one on 12/18/23. The daily average was below the limits and did not cause noise concerns for the community.*

**3) Community Vibration Monitoring Monthly Summary**  
Units: 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
16	31	27	Two out of six vibration monitors recorded a total of one hundred and thirty-nine exceedances. One exceedance was caused by the excavator in the area chopping the rocks. Four exceedances were caused by the excavator moving materials in the area. One exceedance was caused by the rock excavation work. One exceedance was caused by the excavator moving the office trailer in the area. Twenty-six events are not construction related; contractor confirmed that there was no work being performed in the area during the event times. 106 exceedances were recorded during non-construction hours. Detailed information about exceedances is provided in the narrative summary section and plots.

**Community Vibration Monitoring Excursions and Corrective Actions**  
Action Level = 0.5 in/sec above background for VM  
Stop Work Level = 1.0 in/sec above background for VM

Date: Time	Maximum Vibration Level before Corrective Action (in/sec)	Maximum Vibration Level after Corrective Action (in/sec)	Corrective Action
12/1/2023 01:30, 06:50, & 06:55	0.593	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/2/2023 01:50, 11:25, 13:00, 19:50, & 21:05	0.5716	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/3/2023 10:35	0.6197	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/4/2023 10:45	0.5049	0.409	Exceedance observed at VM11 was due to rock chopping in the area. The intensity of the excavator was reduced post event.
12/4/2023 11:40	0.5185	N/A	Exceedance observed at VM11 was not construction related, it is confirmed that no work was being performed in the area.
12/4/2023 14:55, 15:25, 16:00, & 16:20	0.5949	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/5/2023 08:15	0.503	0.4881	Exceedance observed at VM11 was due to moving materials with excavator in the area. The intensity of the excavator was reduced post event.
12/5/2023 15:45	0.5111	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/6/2023 08:15	0.5164	0.4853	Exceedance observed at VM11 was due to moving materials with excavator in the area. The intensity of the excavator was reduced post event.
12/6/2023 10:20	0.5005	N/A	Exceedance observed at VM11 was not construction related, it is confirmed that no work was being performed in the area.

12/6/2023 14:55 & 17:50	0.6222	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/7/2023 07:35	0.6842	0.4949	Exceedance observed at VM11 was due to moving materials with excavator in the area. The intensity of the excavator was reduced post event.
12/7/2023 11:55	0.5173	0.4499	Exceedance observed at VM11 was not construction related, it is confirmed that no work was being performed in the area.
12/7/2023 15:35 & 16:10	0.5676	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/8/2023 02:10	0.5067	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/8/2023 07:40	0.6641	N/A	Exceedance observed at VM11 was not construction related, it is confirmed that no work was being performed in the area.
12/8/2023 15:05, 15:45, 16:10, & 20:00	0.6125	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/9/2023 05:20	0.5132	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/10/2023 23:29	0.566	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/11/2023 05:25	0.6442	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/11/2023 08:59	0.5781	0.4959	Exceedance observed at VM11 was due to rock excavation in the area. The intensity of the excavator was reduced post event.
12/11/2023 17:15	0.5247	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/12/2023 00:25, 14:15, 17:35, & 20:50	0.5406	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/13/2023 05:30	0.5474	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/13/2023 08:15	0.5105	N/A	Exceedance observed at VM11 was not construction related, it is confirmed that no work was being performed in the area.
12/13/2023 15:30 & 22:10	0.6861	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/14/2023 00:30, 03:20, & 06:00	0.5914	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/14/2023 08:25, 09:25, & 10:15	0.5347	N/A	Exceedances observed at VM11 were not construction related, it is confirmed that no work was being performed in the area.
12/14/2023 14:15, 17:30, & 22:45	0.6014	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/15/2023 05:10 & 06:00	0.7485	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/15/2023 10:15 & 10:40	0.58	N/A	Exceedances observed at VM11 were not construction related, it is confirmed that no work was being performed in the area.
12/15/2023 14:59, 16:20, & 22:55	0.7308	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/16/2023 05:25, 06:10, 07:30, 12:35, & 13:30	0.544	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/17/2023 05:30	0.5555	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/18/2023 00:15 & 04:15	0.512	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/18/2023 07:35, 07:40, & 07:55	1.2319	N/A	Exceedances observed at VM11 were not construction related, it is confirmed that no work was being performed in the area.

12/18/2023 08:25	0.6259	0.4956	Exceedance observed at VM11 was due to moving materials with excavator in the area. The intensity of the excavator was reduced post event.
12/18/2023 11:40	0.5021	0.4562	Exceedance observed at VM11 was due to moving the office trailer with excavator in the area. The intensity of the excavator was reduced post event.
12/18/2023 12:45	0.6017	N/A	Exceedance observed at VM11 was not construction related, it is confirmed that no work was being performed in the area.
12/18/2023 13:20, 14:00, 14:15, 14:40, 15:15, 15:45, & 16:05	0.7935	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/19/2023 05:20	0.5254	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/19/2023 06:50, 06:59, 10:55, 12:25, & 12:30	1.3322	N/A	Exceedances observed at VM11 were not construction related, it is confirmed that no work was being performed in the area.
12/19/2023 13:30, 13:50, 14:05, 14:25, & 17:50	0.6606	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/20/2023 08:15, 12:50, & 13:10	0.5449	N/A	Exceedances observed at VM11 were not construction related, it is confirmed that no work was being performed in the area.
12/21/2023 03:20 & 19:00	0.534	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/22/2023 06:15 & 06:20	0.6997	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/22/2023 10:25	0.5058	N/A	Exceedance observed at VM11 was not construction related, it is confirmed that no work was being performed in the area.
12/22/2023 16:35	0.5126	N/A	Exceedance observed at VM11 was recorded during non-construction hours.
12/27/2023 06:40, 14:35, 16:15, & 23:20	0.58	N/A	Exceedances observed at VM11 were recorded during non-construction hours. The job site was shut down this week.
12/28/2023 02:20, 04:20, 04:35, 08:00, 10:25, 12:55, 13:00, 13:10, 13:40, 14:40, 14:45, 14:50, 15:40, 16:20, 17:55, 18:20, 18:45, 19:15, & 20:00	1.5227	N/A	Exceedances observed at VM11 were recorded during non-construction hours. The job site was shut down this week.
12/29/2023 06:10, 09:40, 17:40, 19:55, & 20:15	0.5918	N/A	Exceedances observed at VM11 were recorded during non-construction hours. The job site was shut down this week.
12/30/2023 02:10 & 16:25	0.5756	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/31/2023 09:10, 17:10, & 23:15	0.5412	N/A	Exceedances observed at VM11 were recorded during non-construction hours.
12/4/2023 15:22	0.5129	N/A	Exceedance observed at VM12 was recorded during non-construction hours.
12/8/2023 07:37	0.5021	N/A	Exceedance observed at VM12 was not construction related, it is confirmed that no work was being performed in the area.
12/13/2023 09:00	0.5123	N/A	Exceedance observed at VM12 was not construction related, it is confirmed that no work was being performed in the area.
12/15/2023 05:58 & 16:17	0.62	N/A	Exceedances observed at VM12 were recorded during non-construction hours.
12/18/2023 07:39	0.5083	N/A	Exceedance observed at VM12 was not construction related, it is confirmed that no work was being performed in the area.

Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:

In December 2023, two vibration monitors had recorded exceedances.

There were exceedances recorded during non-construction hours at VM11 and VM12. No corrective actions were required at this time.

The exceedance recorded at VM11 on December 4<sup>th</sup> was due to rock chopping with an excavator in the area. The intensity of the excavator was reduced post event.

The exceedances recorded at VM11 on December 5<sup>th</sup>, December 6<sup>th</sup>, December 7<sup>th</sup>, and December 18<sup>th</sup> were due to excavator moving materials in the area. The intensity of the excavator was reduced post event.

The exceedance recorded at VM11 on December 11<sup>th</sup> was due to rock excavation performed in the area. The intensity of the excavator was reduced post event.

The other exceedance recorded at VM11 on December 18<sup>th</sup> was due to an excavator moving the office trailer in the area. The intensity of the excavator was reduced post event.

The rest of the exceedances recorded at VM11 and VM12 were non-construction related. The event times when the exceedances were recorded were reviewed by the contractor, it is confirmed that no work was being performed in the area during these event periods. No corrective action was required at these times.

Note that blast monitors (BVM), situated on the sidewalk adjacent to the site and in the tunnel, fall outside the community plan's scope, which specifically addresses monitors in or on buildings. Additionally, the community plan (VM) measures PPV above background, while the blast plan (BVM) solely measures PPV.

**4) Community Vibration Blasting Monitoring Monthly Summary**

Units: 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
16	31	0	No vibration exceedance related to the blasting activities was observed in December. Detailed information is provided in the narrative summary section and plots.

**Community Vibration Monitoring Excursions and Corrective Actions**

Action Level = 2.0 in/sec for VMs install at Concord Ave, 141st St, and Southern Blvd.

Action Level = 4.0 in/sec for VMs install at 142nd St

Action Level = 12.0 in/sec for VMs install on all underground utilities

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	N/A

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

There are two sets of project limits for vibration, one for general onsite construction activities and another specifically for blasting activities. No vibration exceedance related to the blasting activities was observed in December.

Four portable vibration monitors for blasting monitoring were deployed at the following locations: BVM-A was installed at location no. 10, BVM-B at location no. 3, BVM-C at location no. 7, and BVM-D at location no. 5 on December 8<sup>th</sup>, December 20<sup>th</sup>, and December 21<sup>st</sup>.

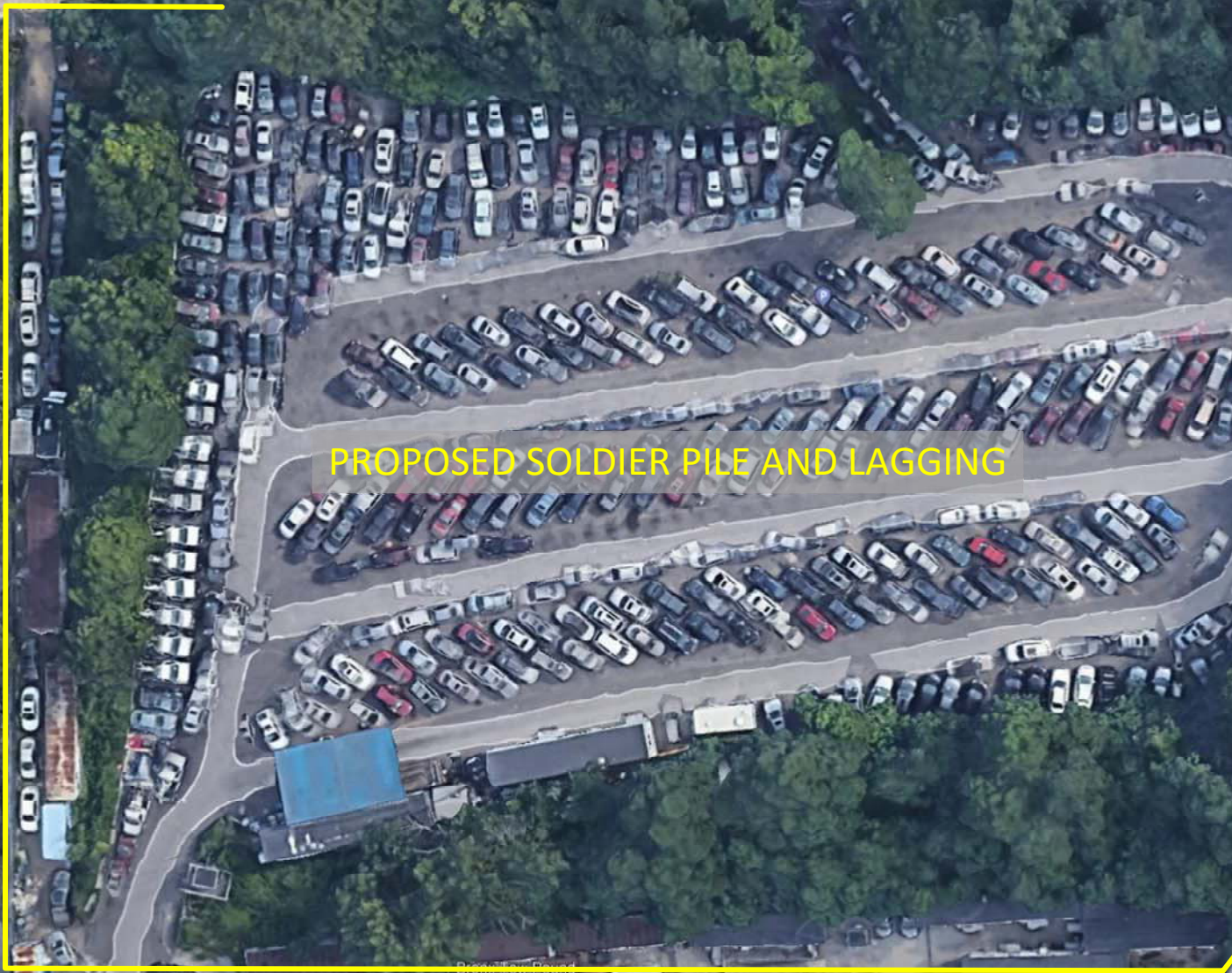
Note that blast monitors (BVM), situated on the sidewalk adjacent to the site and in the tunnel, fall outside the community plan's scope, which specifically addresses monitors in or on buildings. Additionally, the community plan (VM) measures PPV above background, while the blast plan (BVM) solely measures PPV.

**ATTACHMENTS:**

- 1 – Include one map of monitoring station/locations
- 2 – Include Data Plots
- 3 – Include Baseline Reference




Plan North



PROPOSED SOLDIER PILE AND LAGGING

**LEGEND**

 VIBRATION MONITOR

355  
353  
351  
349  
347  
345  
343  
341  
339  
337  
335  
333  
331  
329  
327  
325  
323  
321

VM8A

VM7

VM5

VM6

A.A. Lumber Supply

Extra Space Storage

El Dan Bienen

Jesus Auto Security

Despradel Distributions Corp

APCG

Extra Space Storage

Union Stevedore Equipment

Industrial Steam Boiler Corporation

K&B Global Wholesale NY

Legion X

La Flor De Mayo Express

Concord Ave

Concord Ave

Wales Ave

Southern Blvd

Southern Blvd

Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

E 141st St

E 141st St

E 141st St

E 141st St

E 141st St

E 142nd St

E 142nd St

E 142nd St

E 142nd St

Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

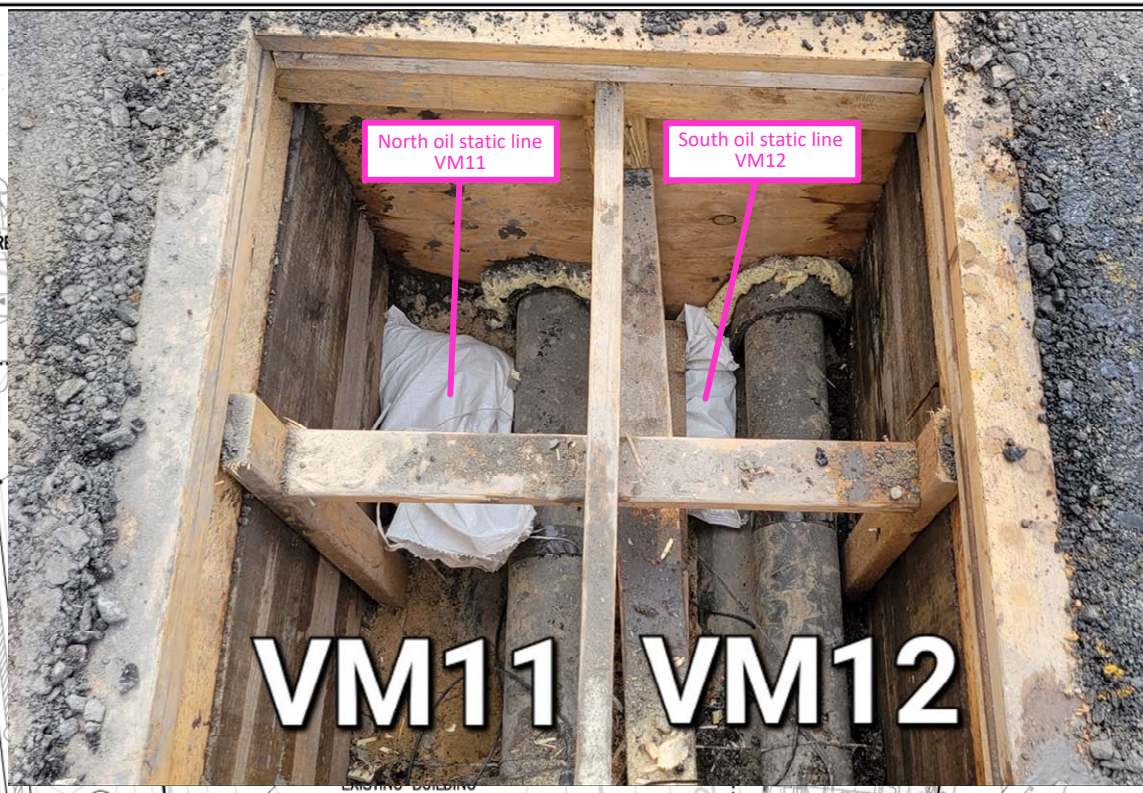
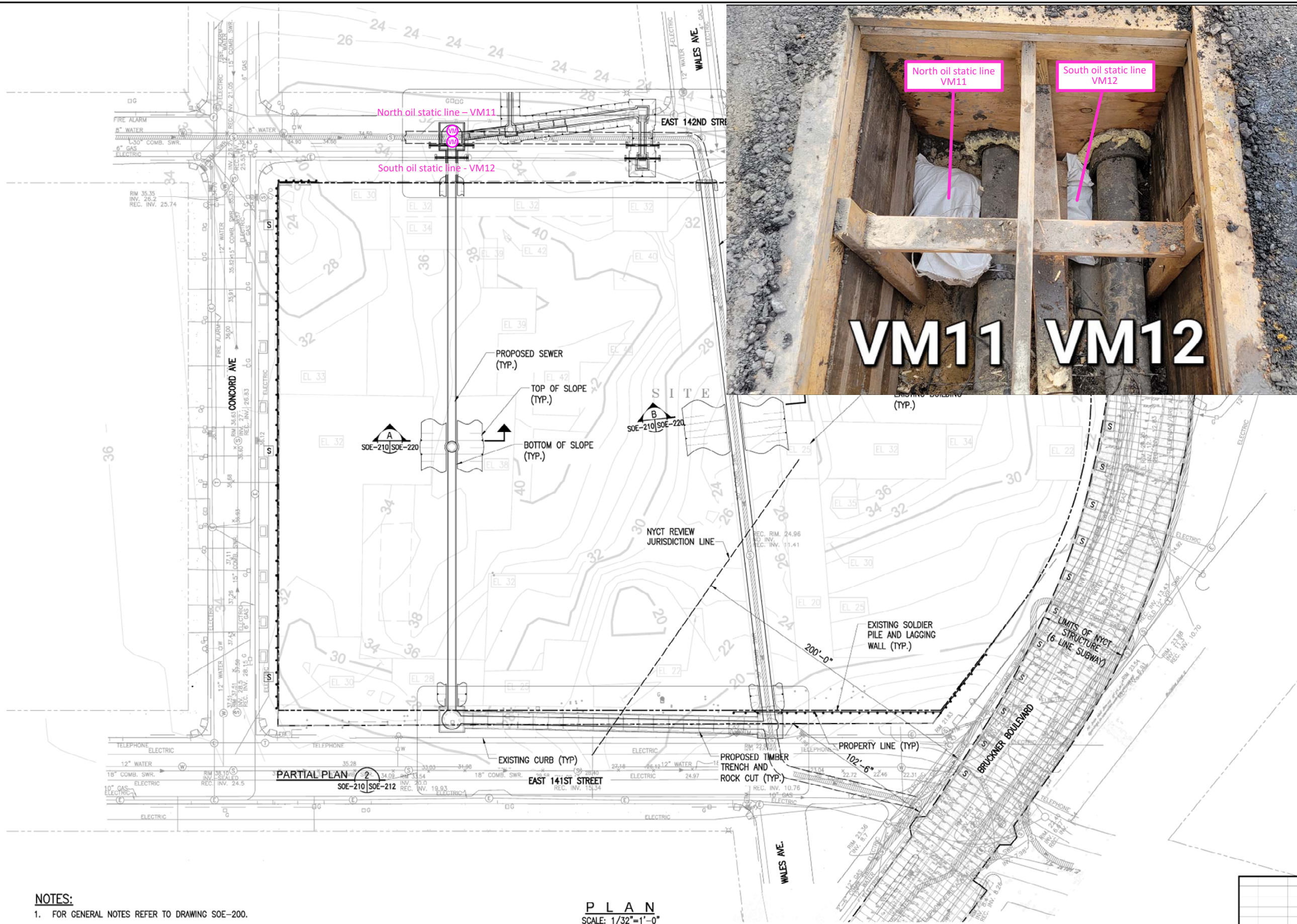
Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

Bruckner Blvd

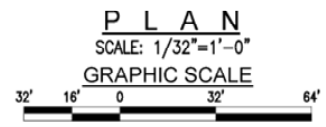




**VM11 VM12**

**NOTES:**

1. FOR GENERAL NOTES REFER TO DRAWING SOE-200.
2. APPROXIMATE TOP OF CLASS 1D ROCK CONTOURS ARE SHOWN, REFER TO THE GEOTECHNICAL REPORT.



NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D
745 EAST 141 STREET, BRONX, NY				
				DOB#: X00731424-11

DESIGN SUBMITTED BY:

DESIGN PREPARED BY:

CONTRACTOR:

OWNER:

SUPPORT OF EXCAVATION PLAN

F. WU  
DRAWN BY

8502021CR0001P3-SOE-210.00.DWG  
CADD FILE

NYC BOROUGH-BASED JAILS PROGRAM  
THE BRONX SITE PREPARATION  
BRONX BOROUGH

CAPITAL PROJECT NO. 8502021CR000 1P-3

SHEET 5 OF 10 SOE-210



1

2

3

E 142nd St

Southern Blvd

12

Blasting - Vibration Monitor Locations

11

4

10

5

Concord Ave

353

343

333

9

8

7

6

E 141st St

Bruckner Blvd

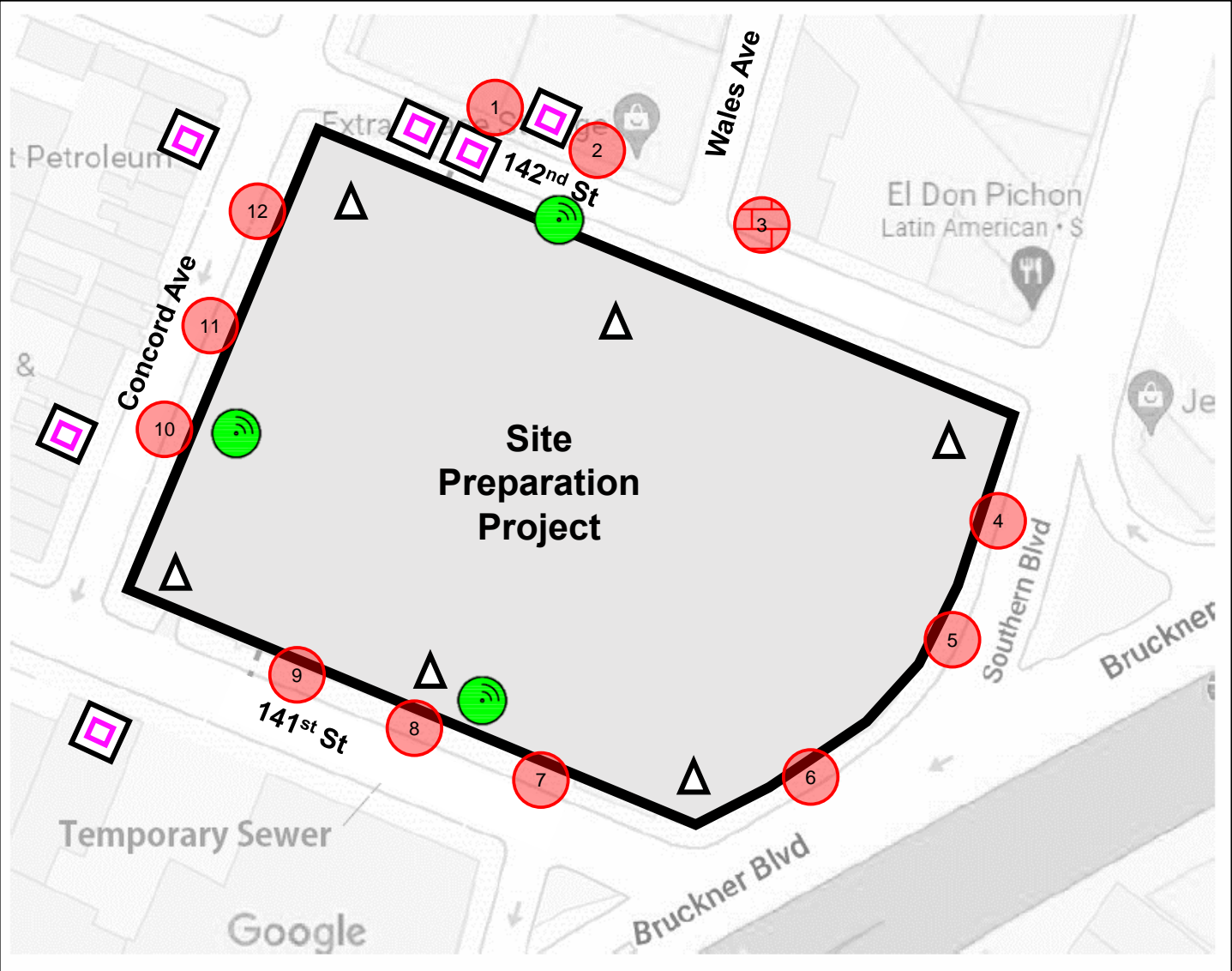






E 141st St



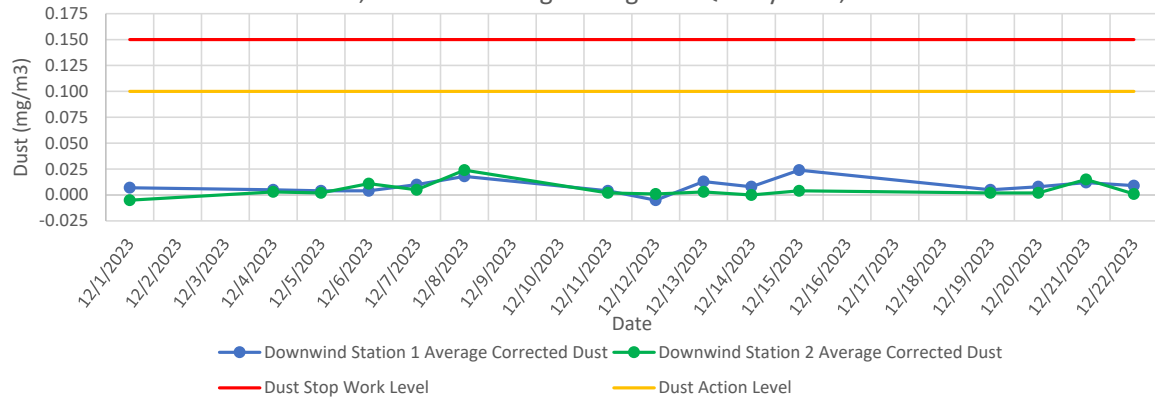
# Attachments

# Environmental Monitoring The Bronx

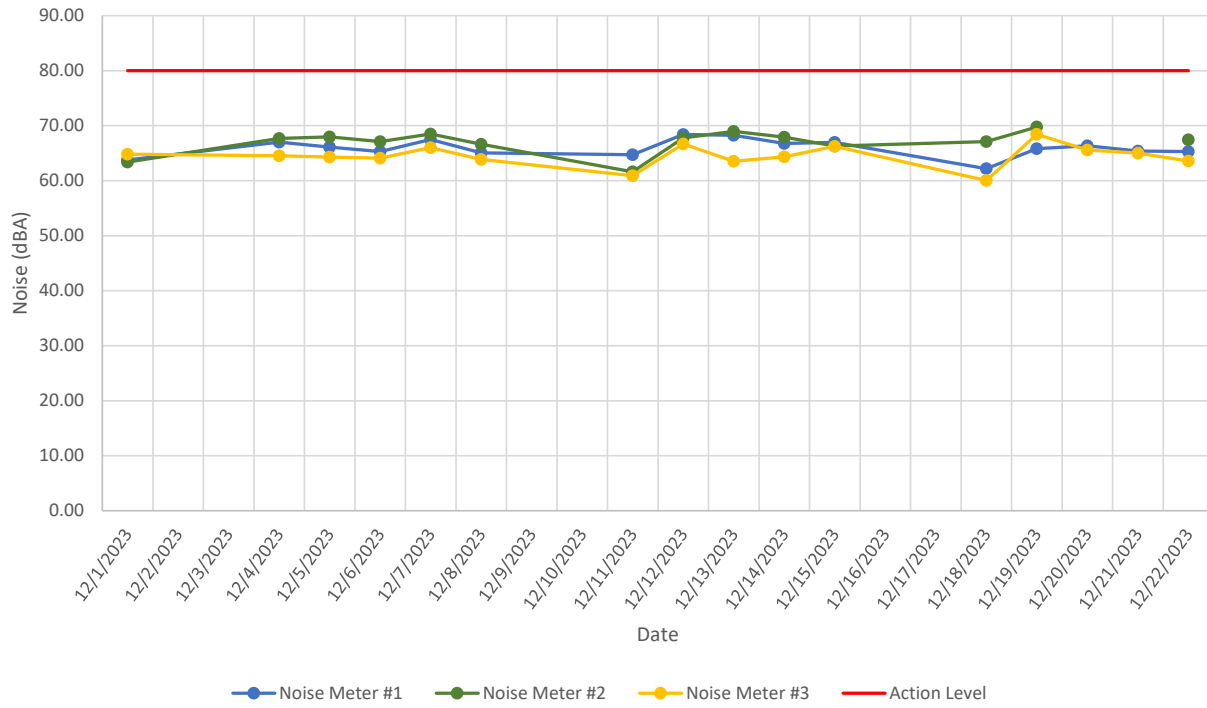


-  Vibration Monitor (VM)
-  Air Monitoring Station (DM)
-  Noise Monitoring Station (NM)
-  Blasting - Vibration Monitor (BVM)

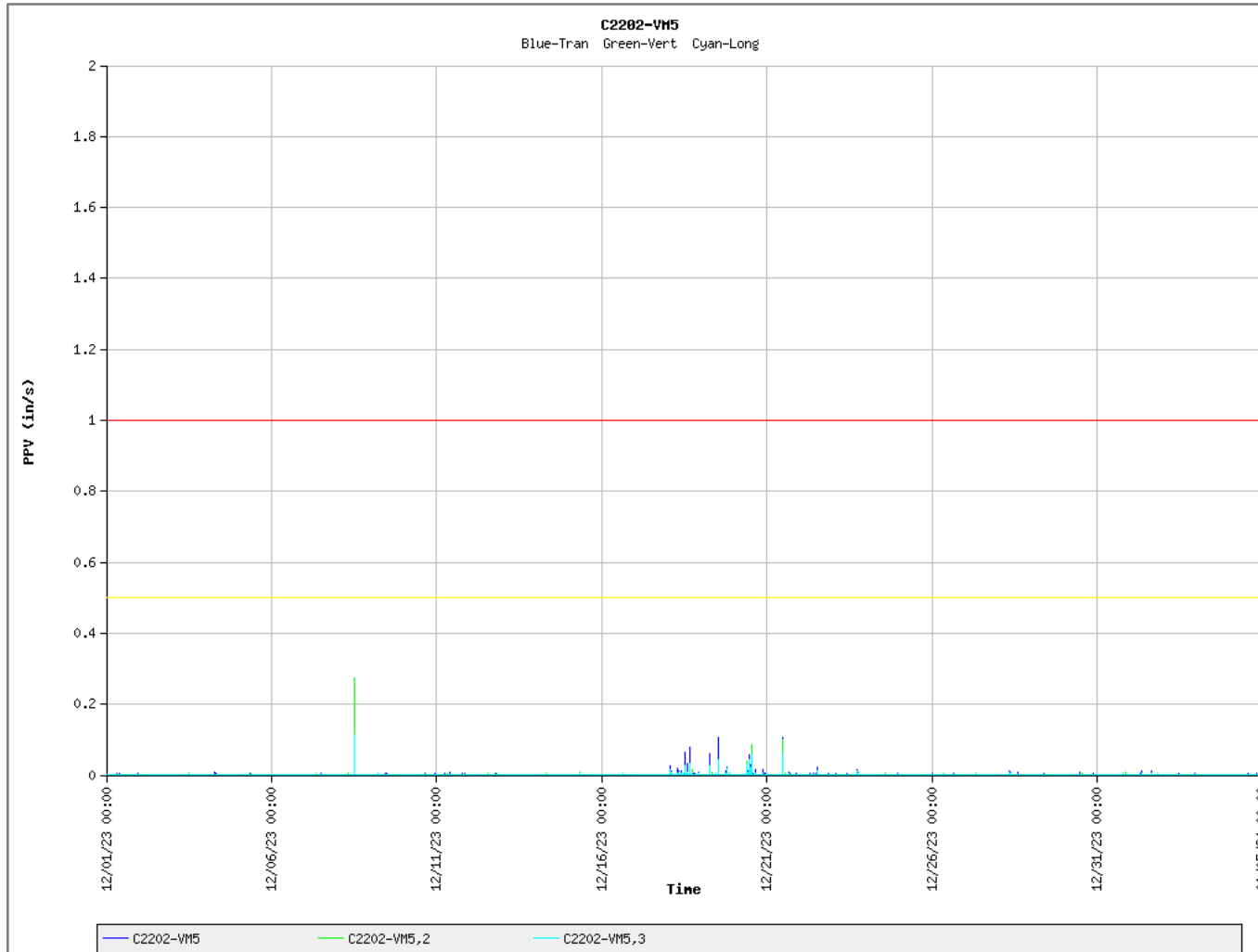
December 2023, 15-min Running Average Air Quality Data, PM Plot



December 2023, Average Equivalent Sound Level Plot (Laeq)



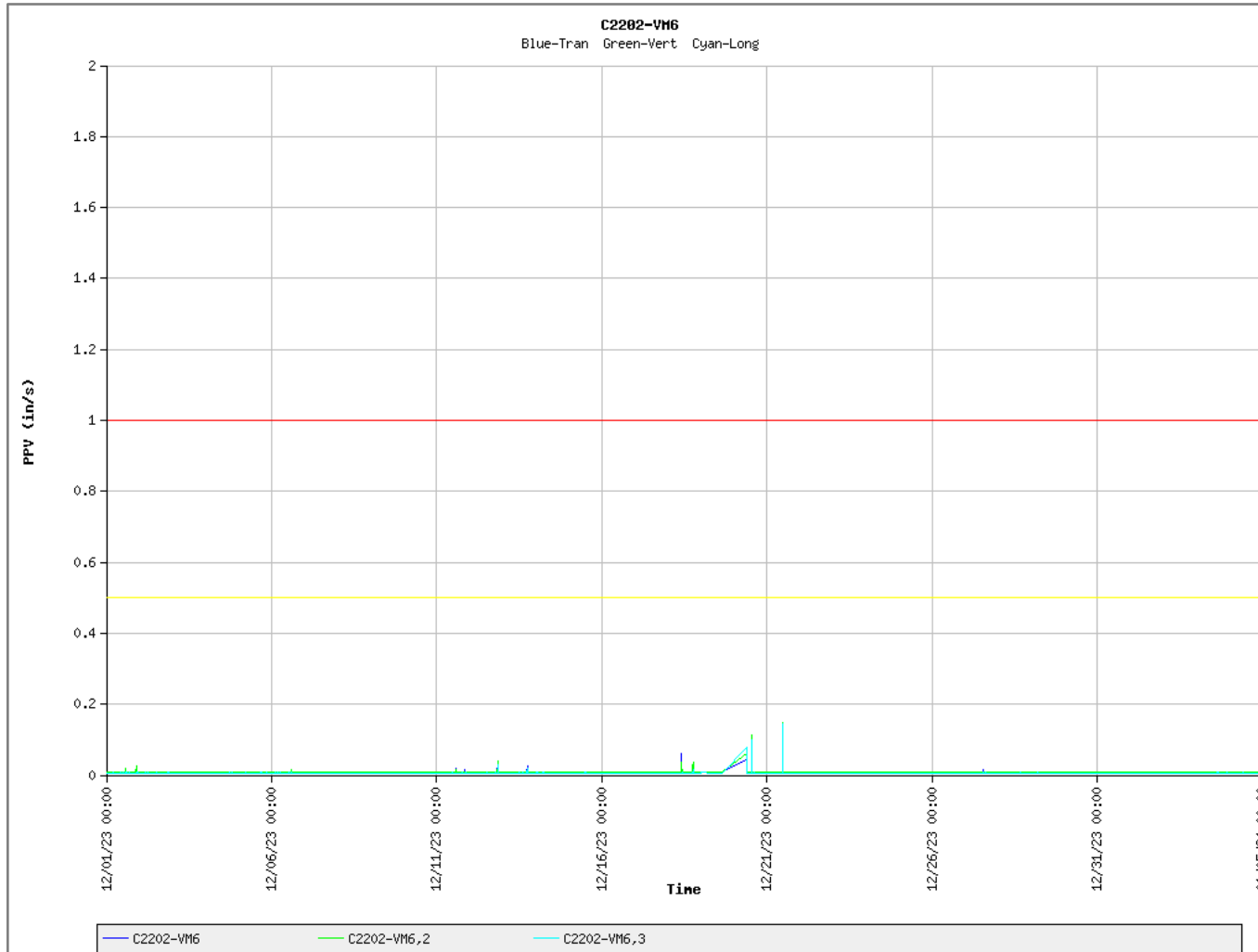
# The Bronx Site Preparation December 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM5 Transverse  
C2202-VM5,2 Vertical  
C2202-VM5,3 Longitudinal

# The Bronx Site Preparation December 2023 Vibration Monitoring Data Plots

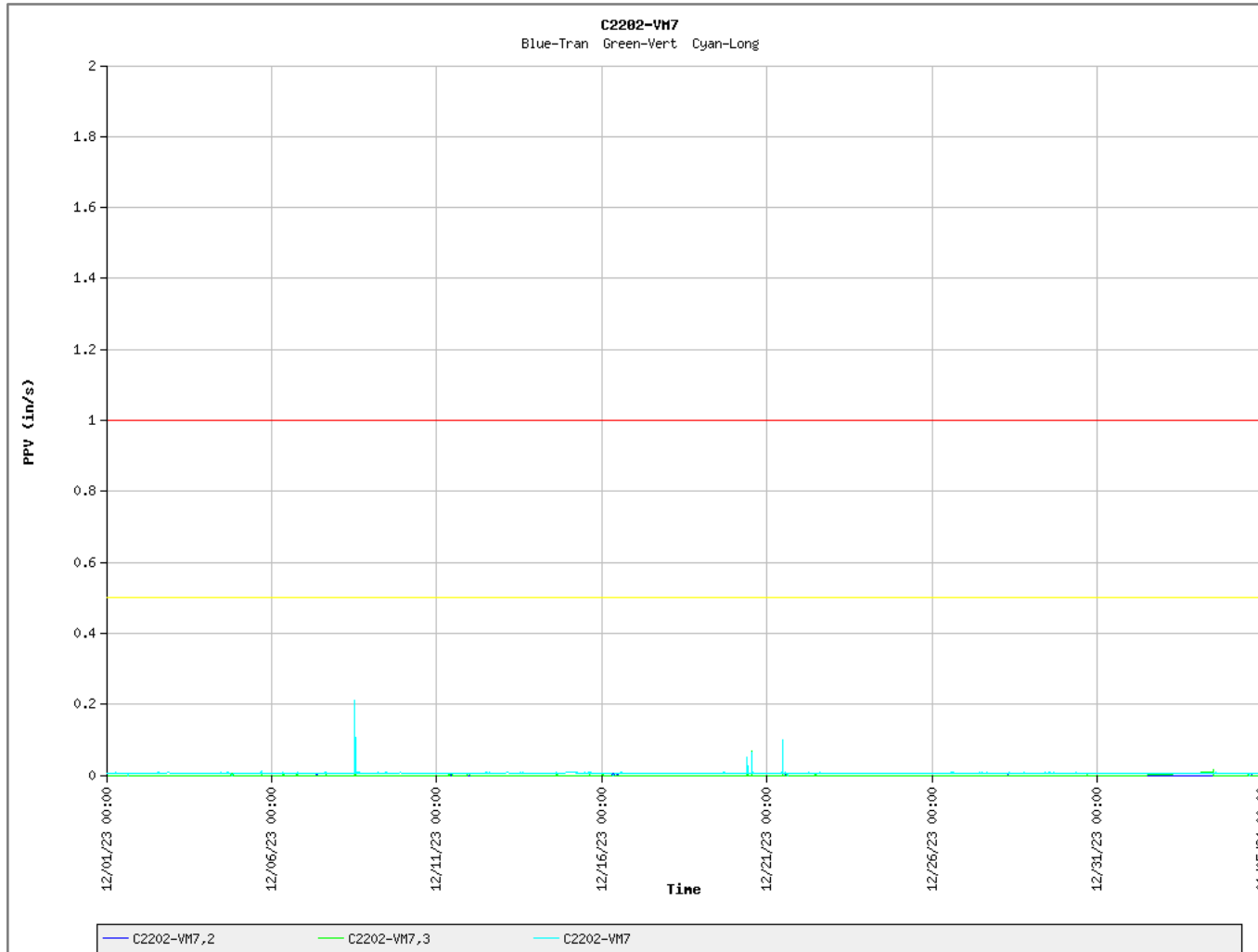


Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM6 Transverse  
C2202-VM6,2 Vertical  
C2202-VM6,3 Longitudinal



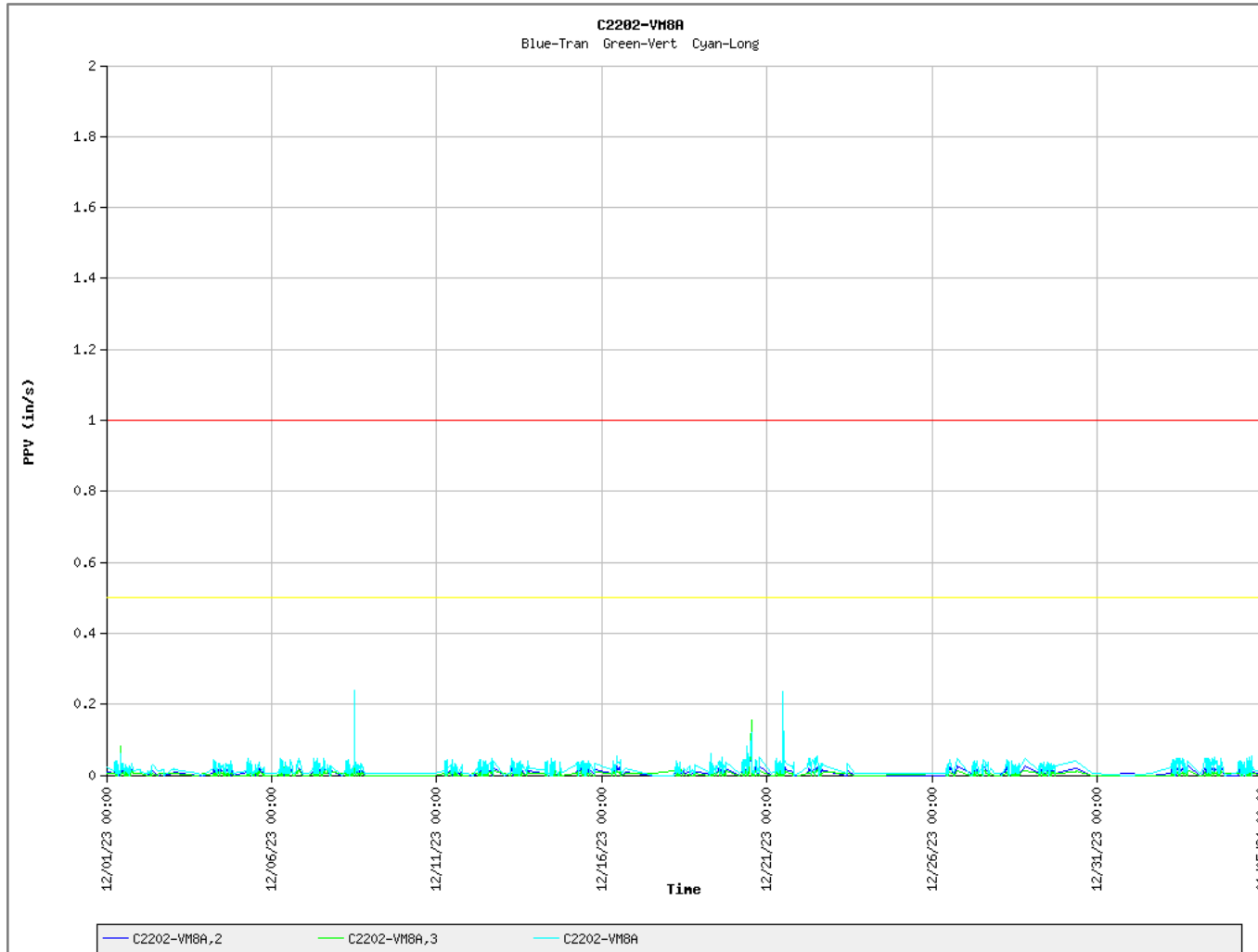
# The Bronx Site Preparation December 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM7 Longitudinal  
C2202-VM7,2 Transverse  
C2202-VM7,3 Vertical

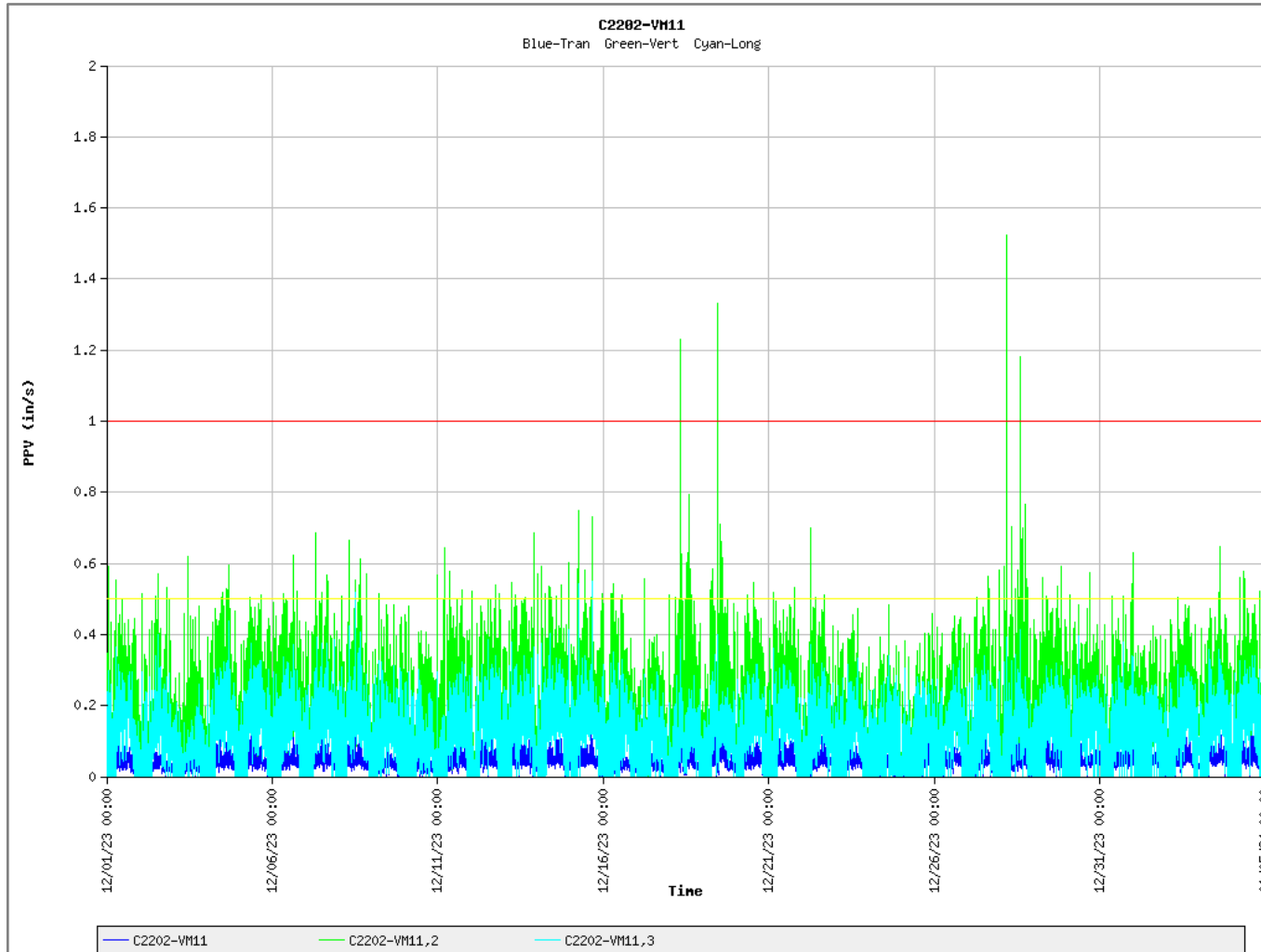
# The Bronx Site Preparation December 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM8A Longitudinal  
C2202-VM8A,2 Transverse  
C2202-VM8A,3 Vertical

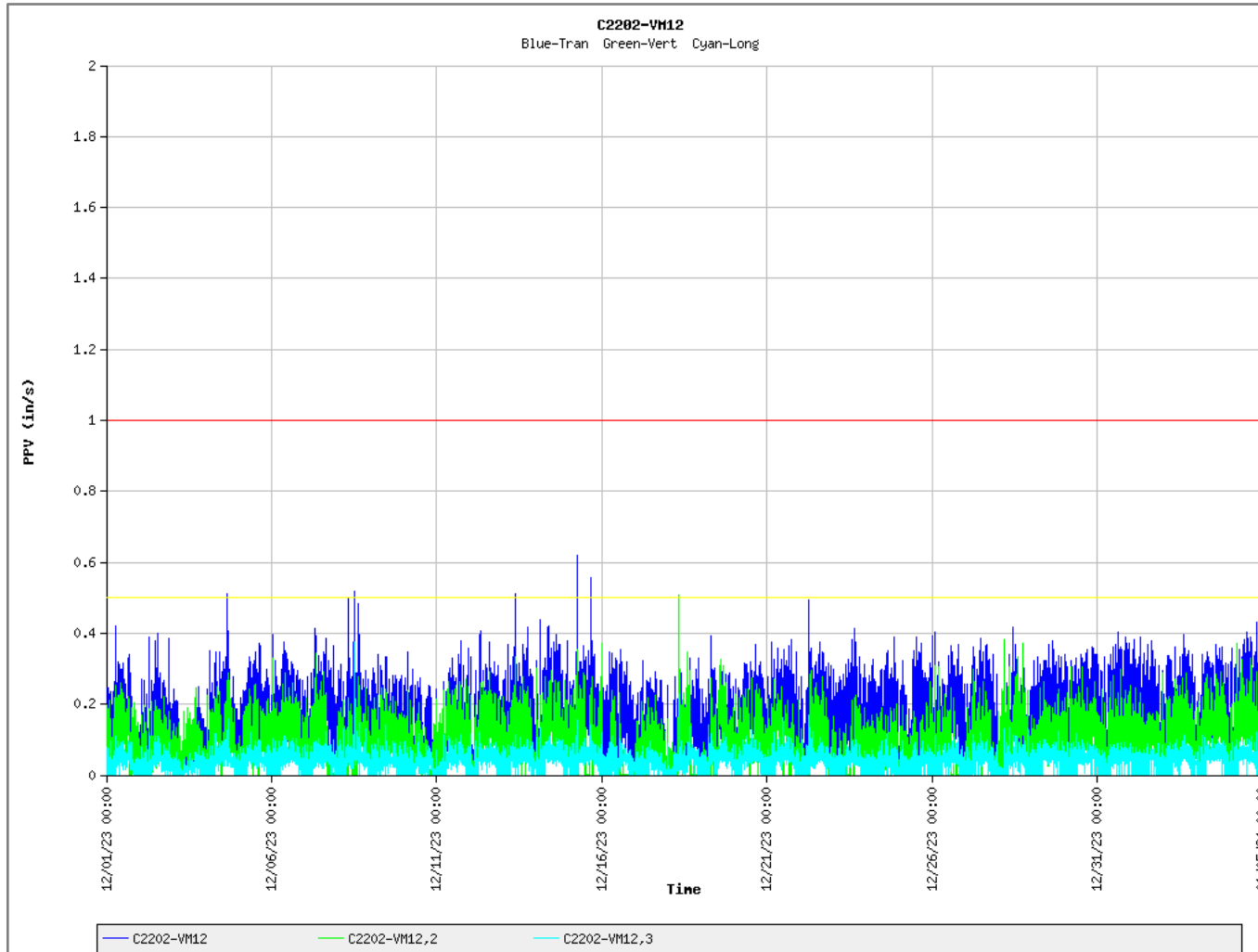
# The Bronx Site Preparation December 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM11 Transverse  
C2202-VM11,2 Vertical  
C2202-VM11,3 Longitudinal

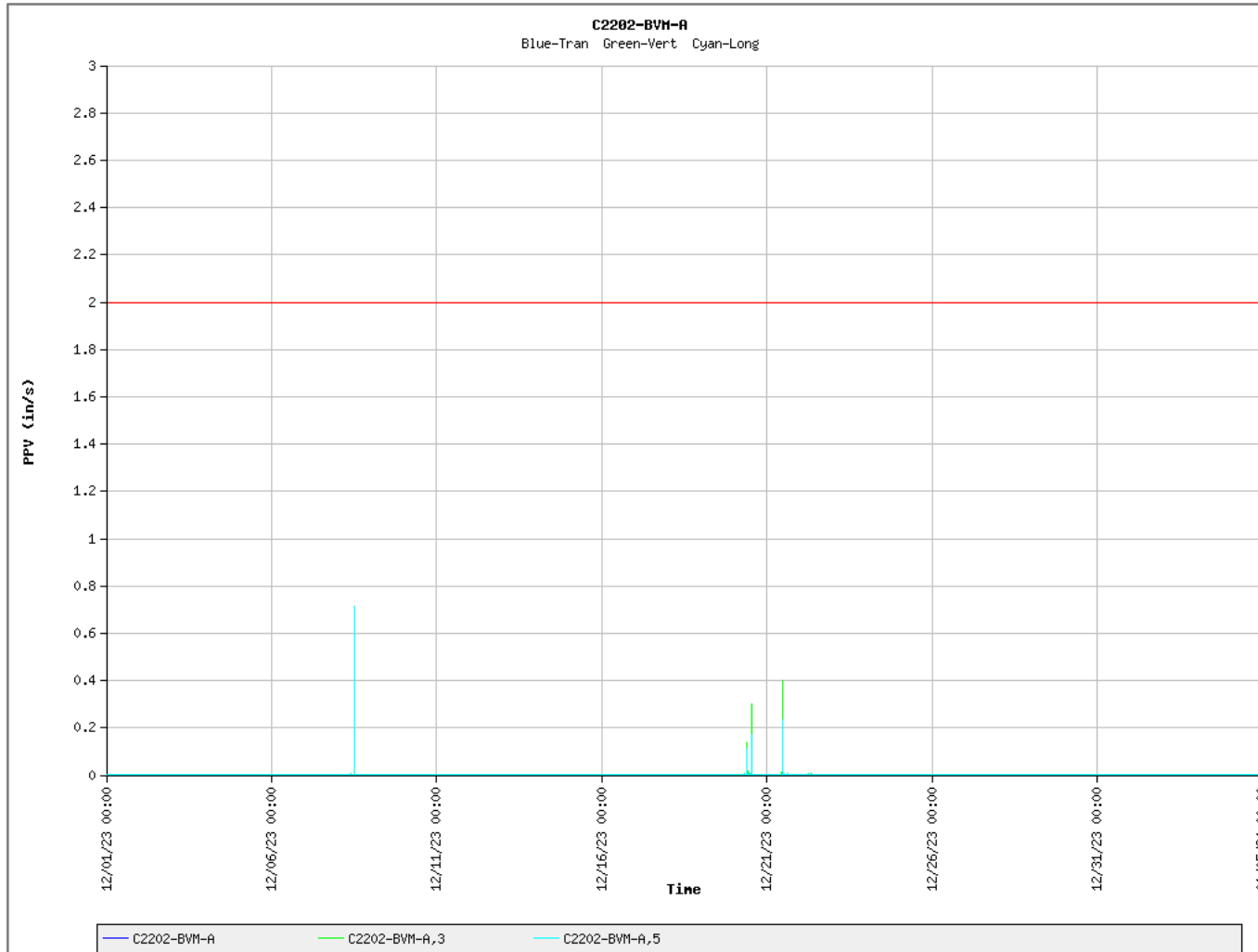
# The Bronx Site Preparation December 2023 Vibration Monitoring Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM12 Transverse  
C2202-VM12,2 Vertical  
C2202-VM12,3 Longitudinal

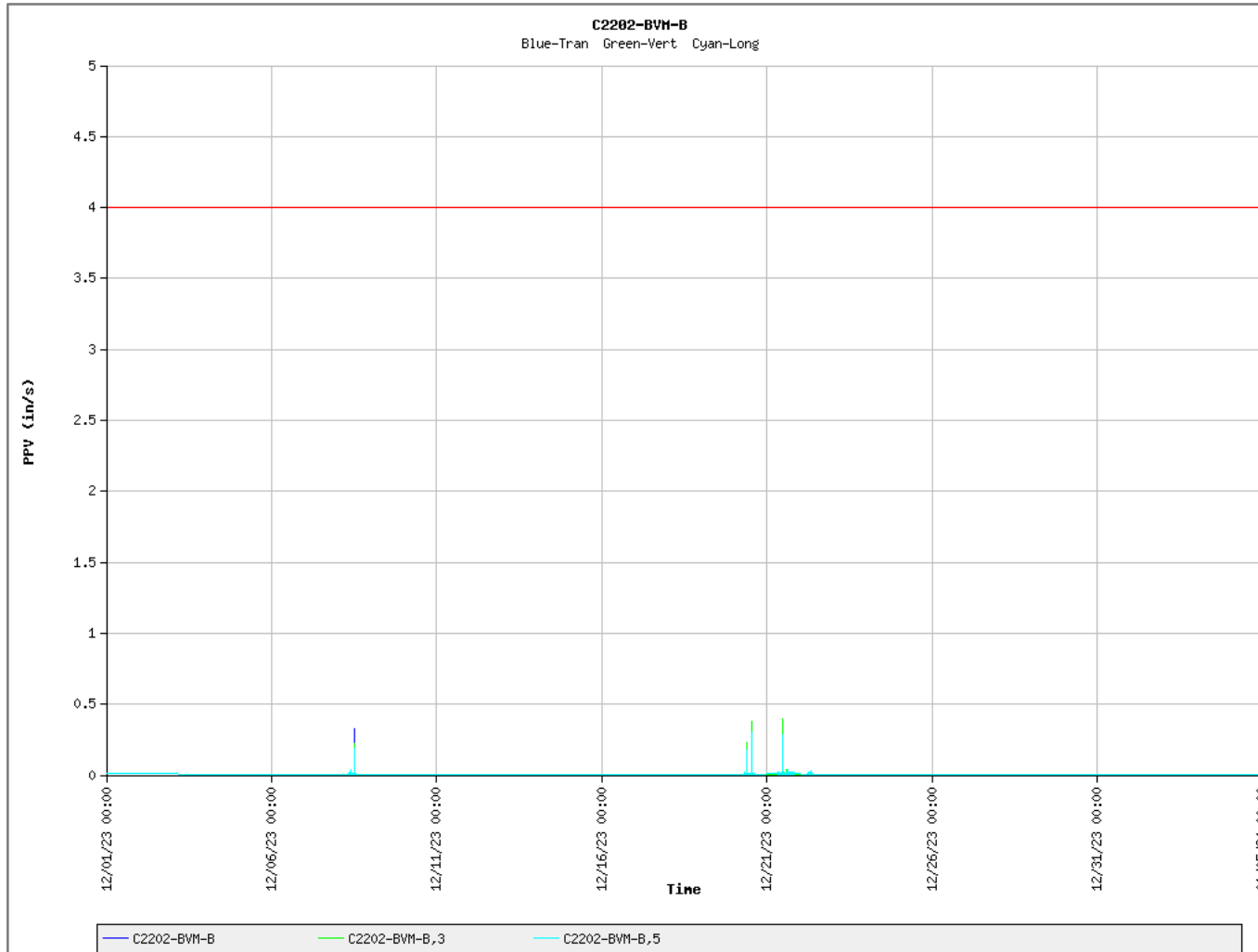
# The Bronx Site Preparation December 2023 Vibration Monitoring Data Plots



Exceedance level: 2 in/sec  
12/1/2023-12/31/2023 at location# 10

C2202-BVM-A Transverse  
C2202-BVM-A,3 Vertical  
C2202-BVM-A,5 Longitudinal

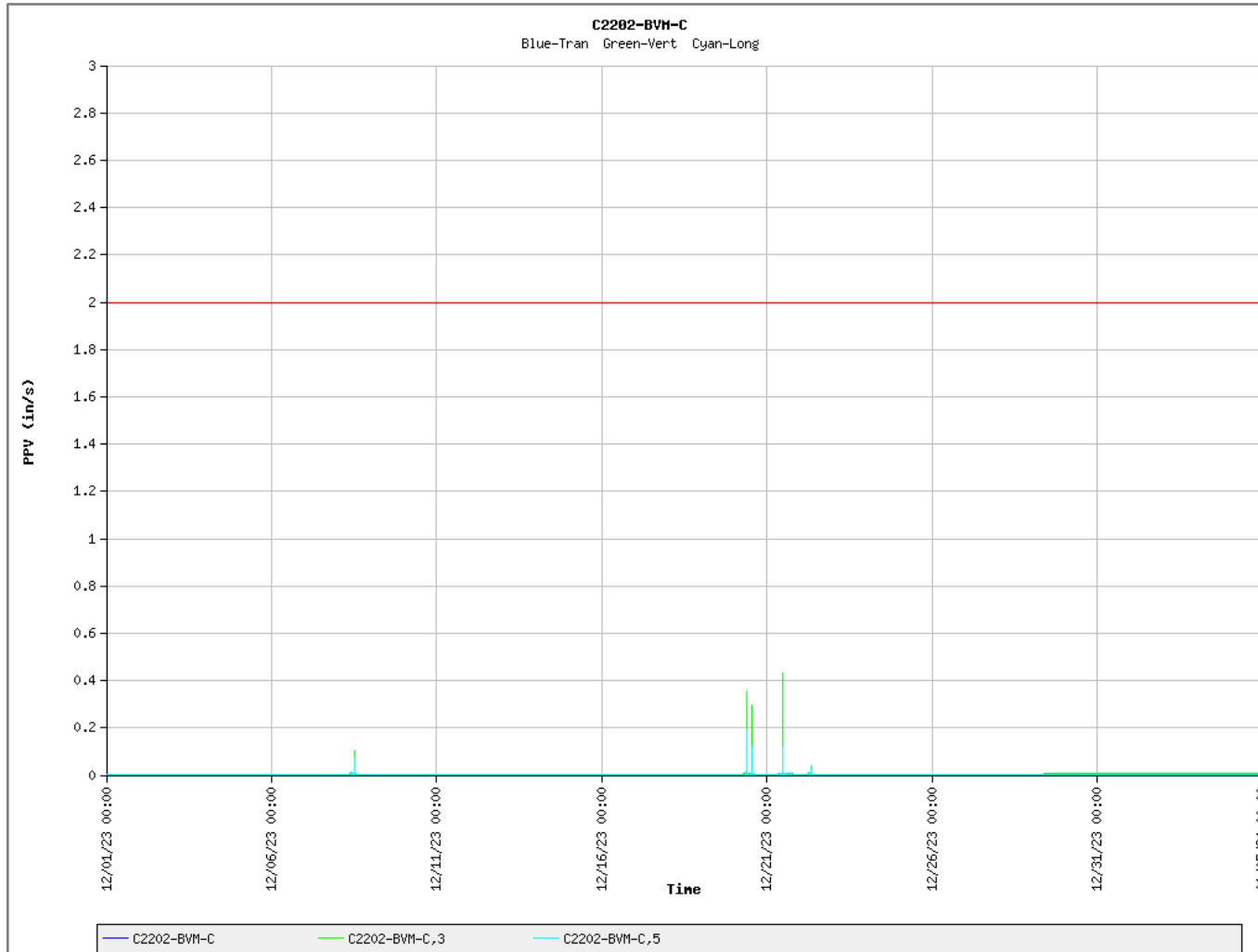
# The Bronx Site Preparation December 2023 Vibration Monitoring Data Plots



Exceedance level: 4 in/sec  
12/1/2023-12/31/2023 at location# 3

C2202-BVM-B Transverse  
C2202-BVM-B,3 Vertical  
C2202-BVM-B,5 Longitudinal

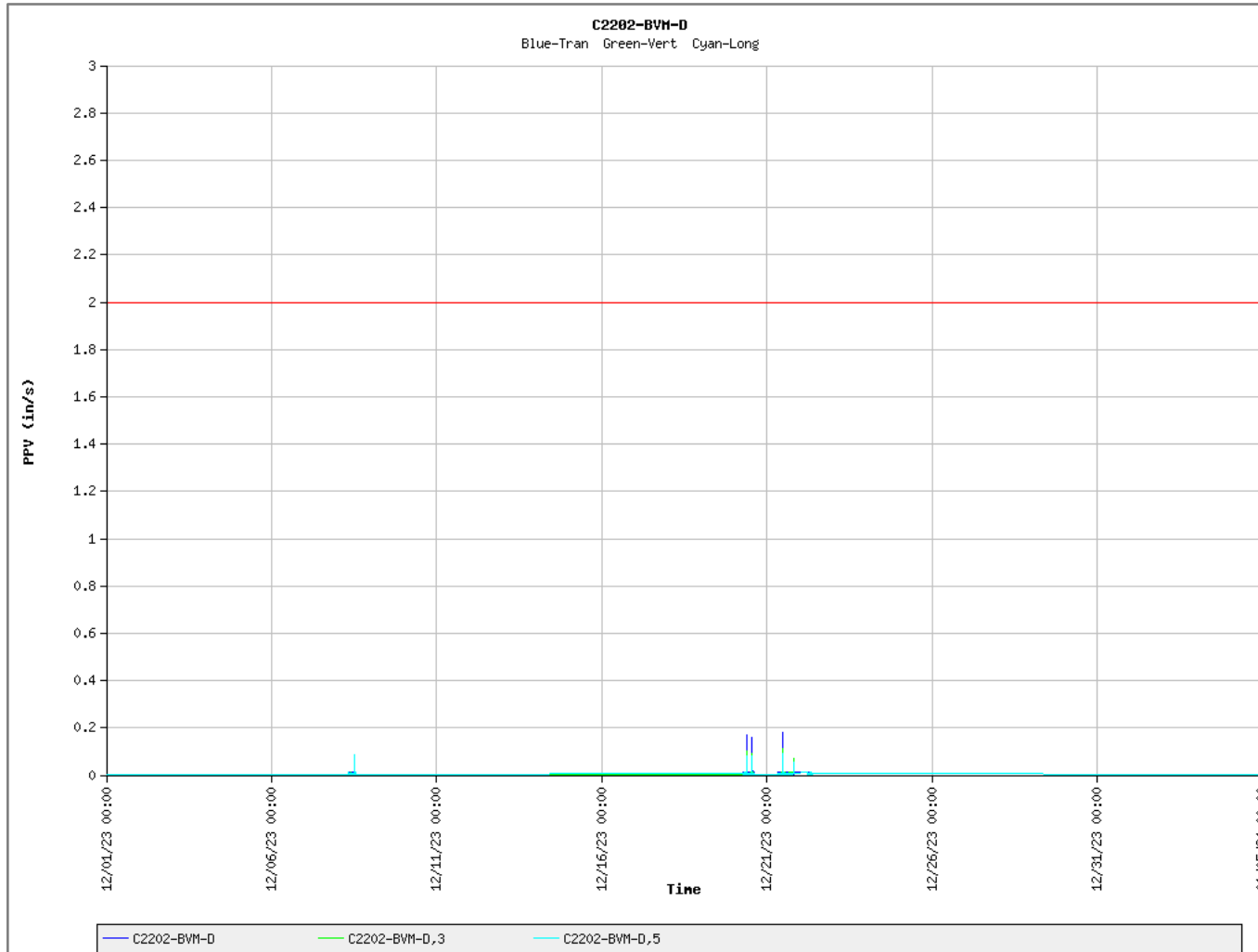
# The Bronx Site Preparation December 2023 Vibration Monitoring Data Plots



Exceedance level: 2 in/sec  
12/1/2023-12/31/2023 at location# 7

C2202-BVM-C Transverse  
C2202-BVM-C,3 Vertical  
C2202-BVM-C,5 Longitudinal

# The Bronx Site Preparation December 2023 Vibration Monitoring Data Plots

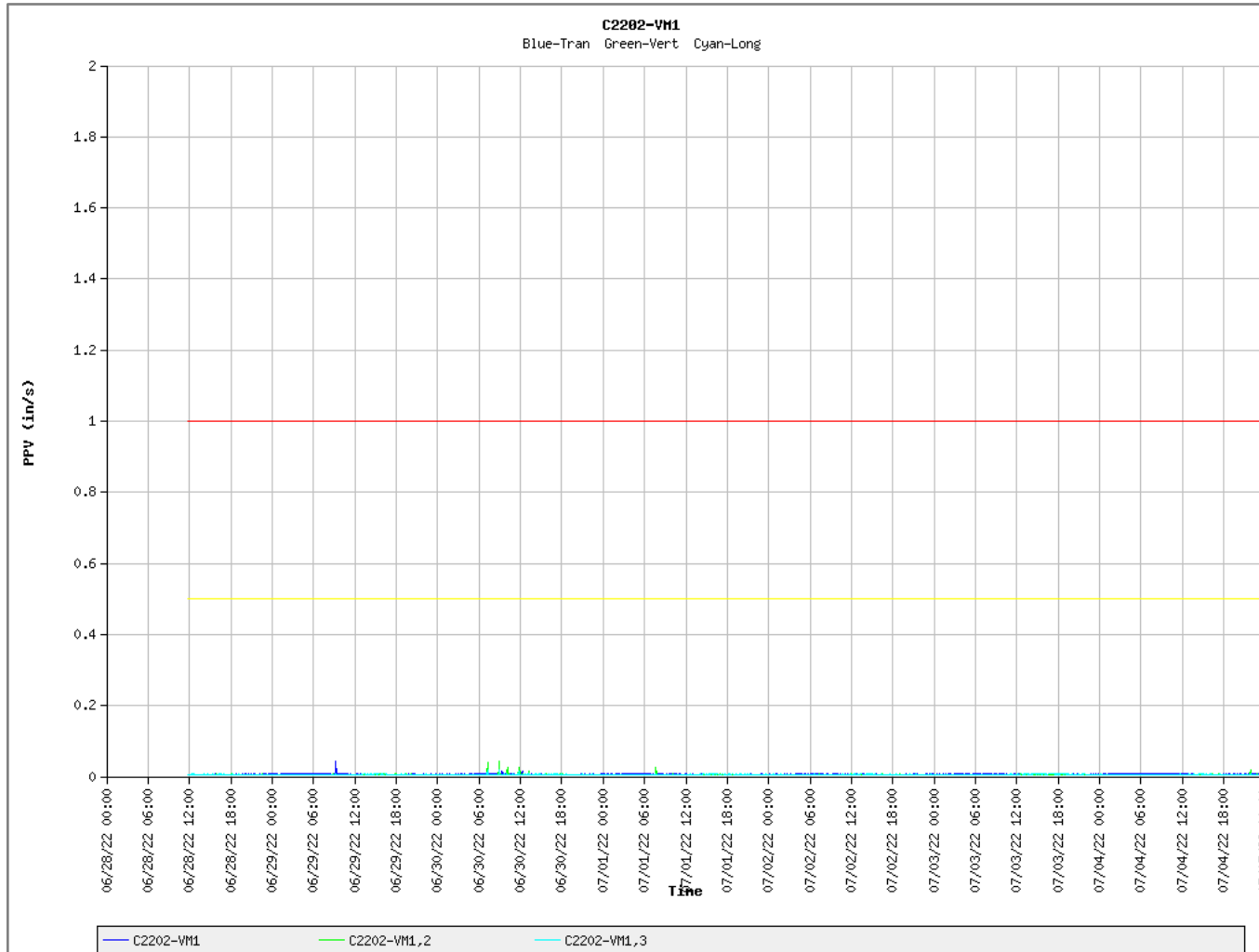


Exceedance level: 2 in/sec  
12/1/2023-12/31/2023 at location# 5

C2202-BVM-D Transverse  
C2202-BVM-D,3 Vertical  
C2202-BVM-D,5 Longitudinal



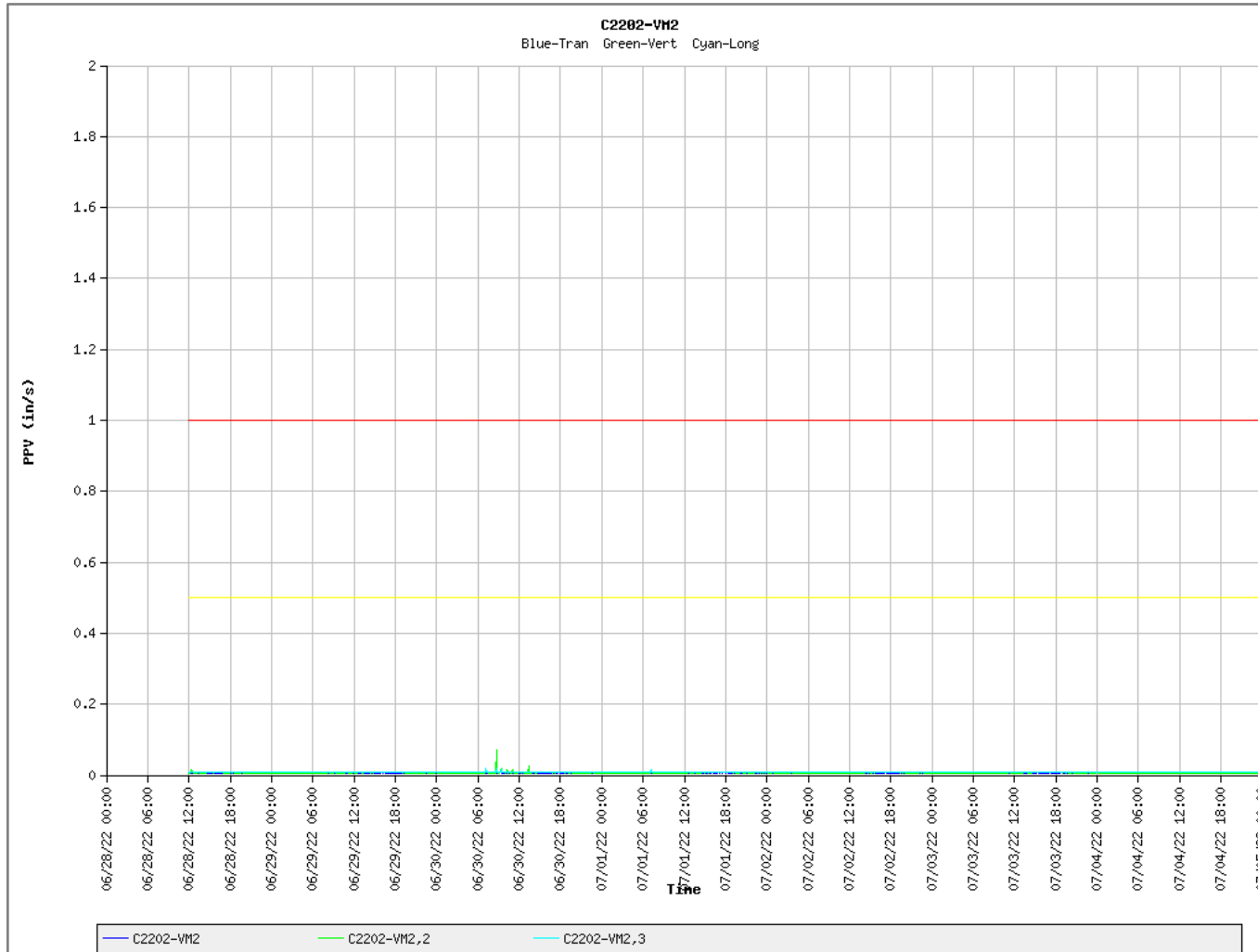
# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM1 Transverse  
C2202-VM1,2 Vertical  
C2202-VM1,3 Longitudinal

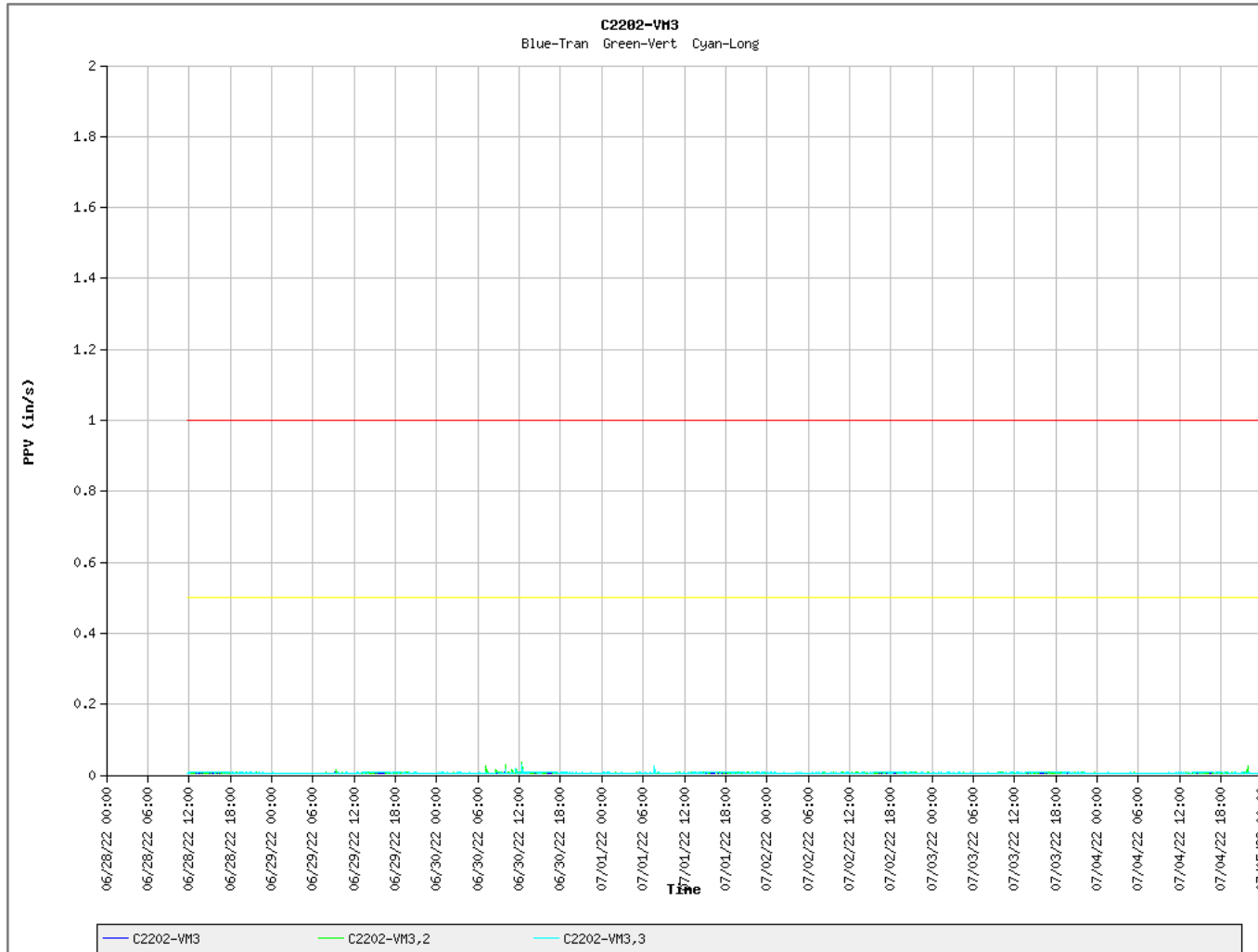
# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM2 Transverse  
C2202-VM2,2 Vertical  
C2202-VM2,3 Longitudinal

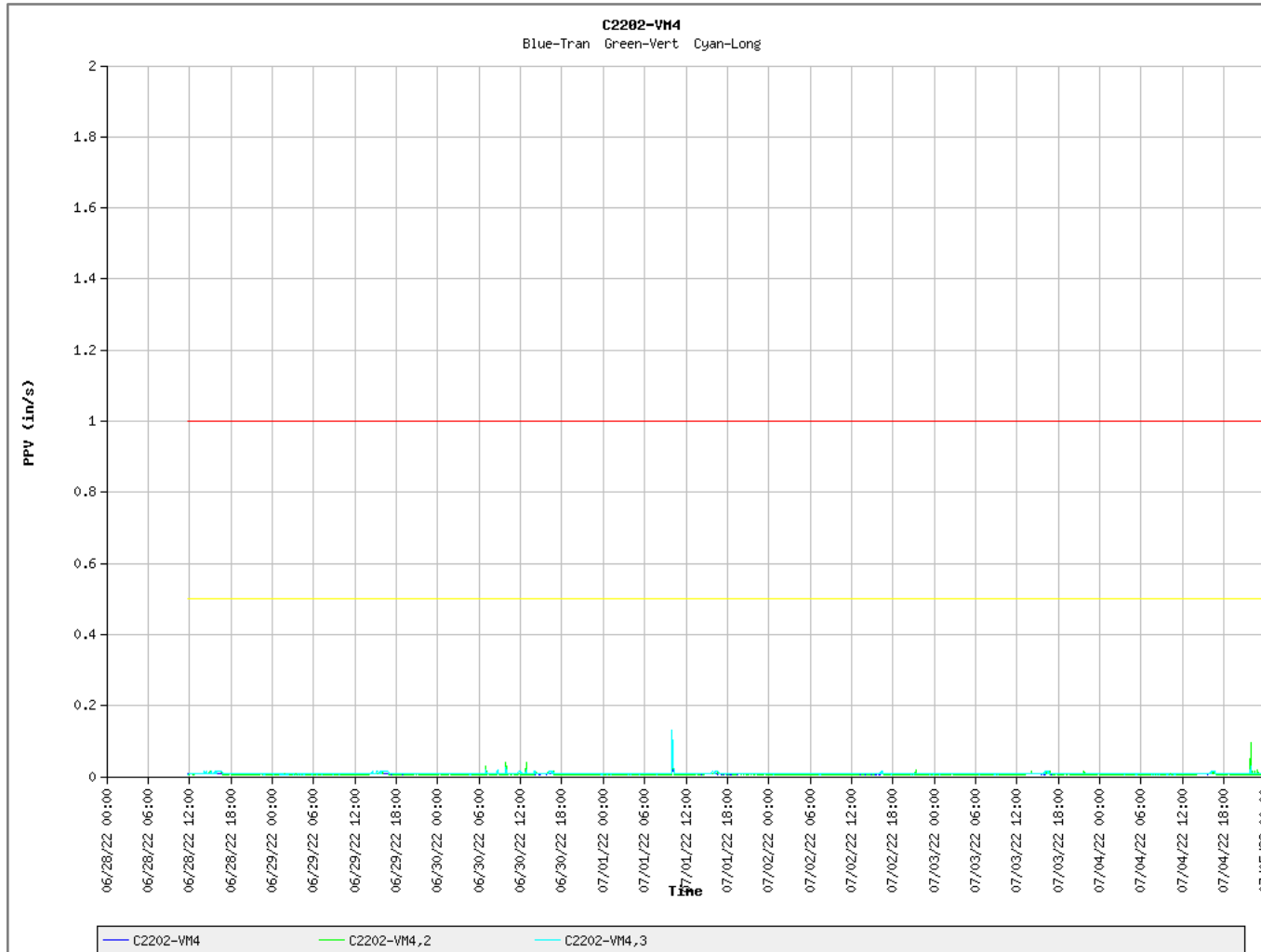
# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM3 Transverse  
C2202-VM3,2 Vertical  
C2202-VM3,3 Longitudinal

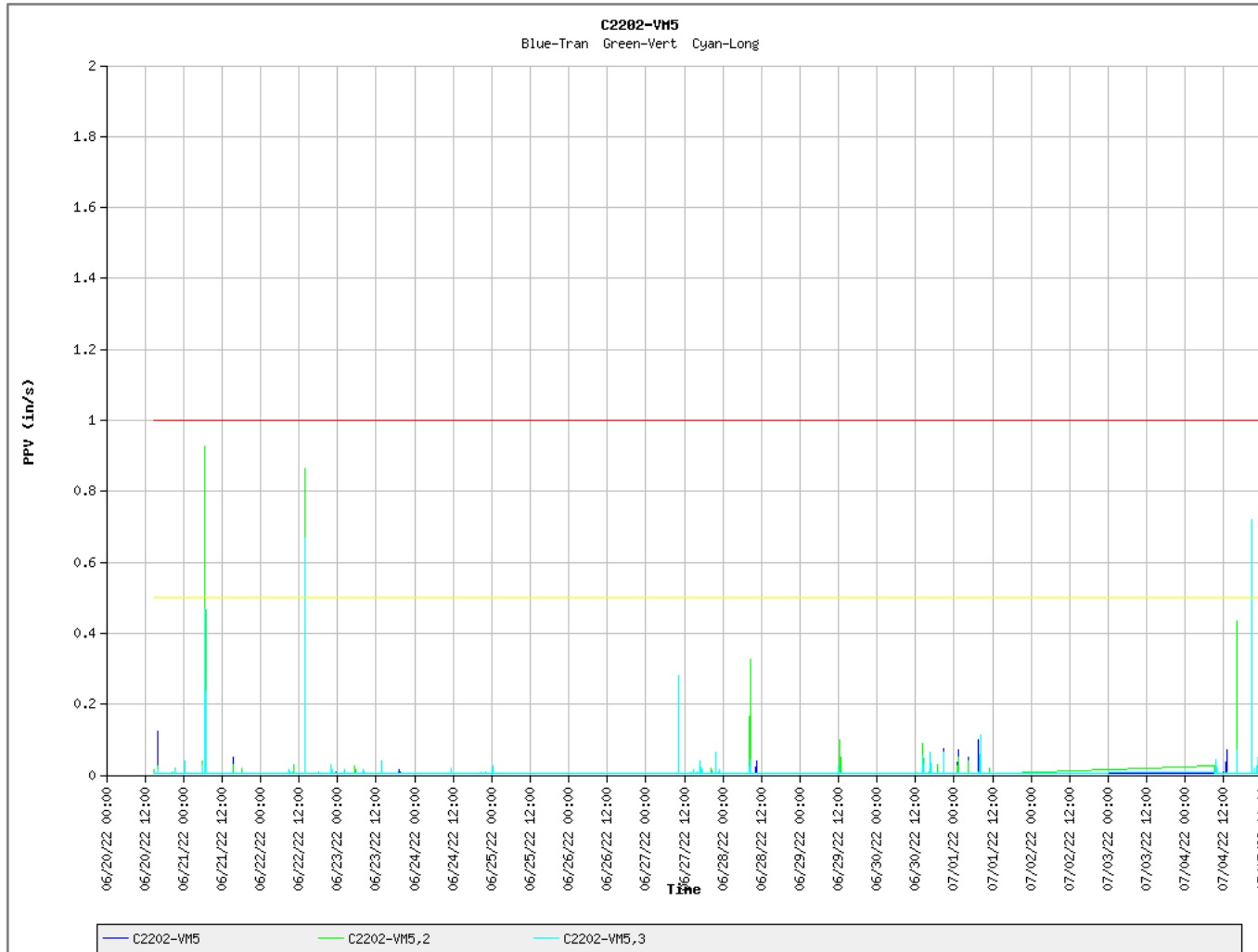
# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM4 Transverse  
C2202-VM4,2 Vertical  
C2202-VM4,3 Longitudinal

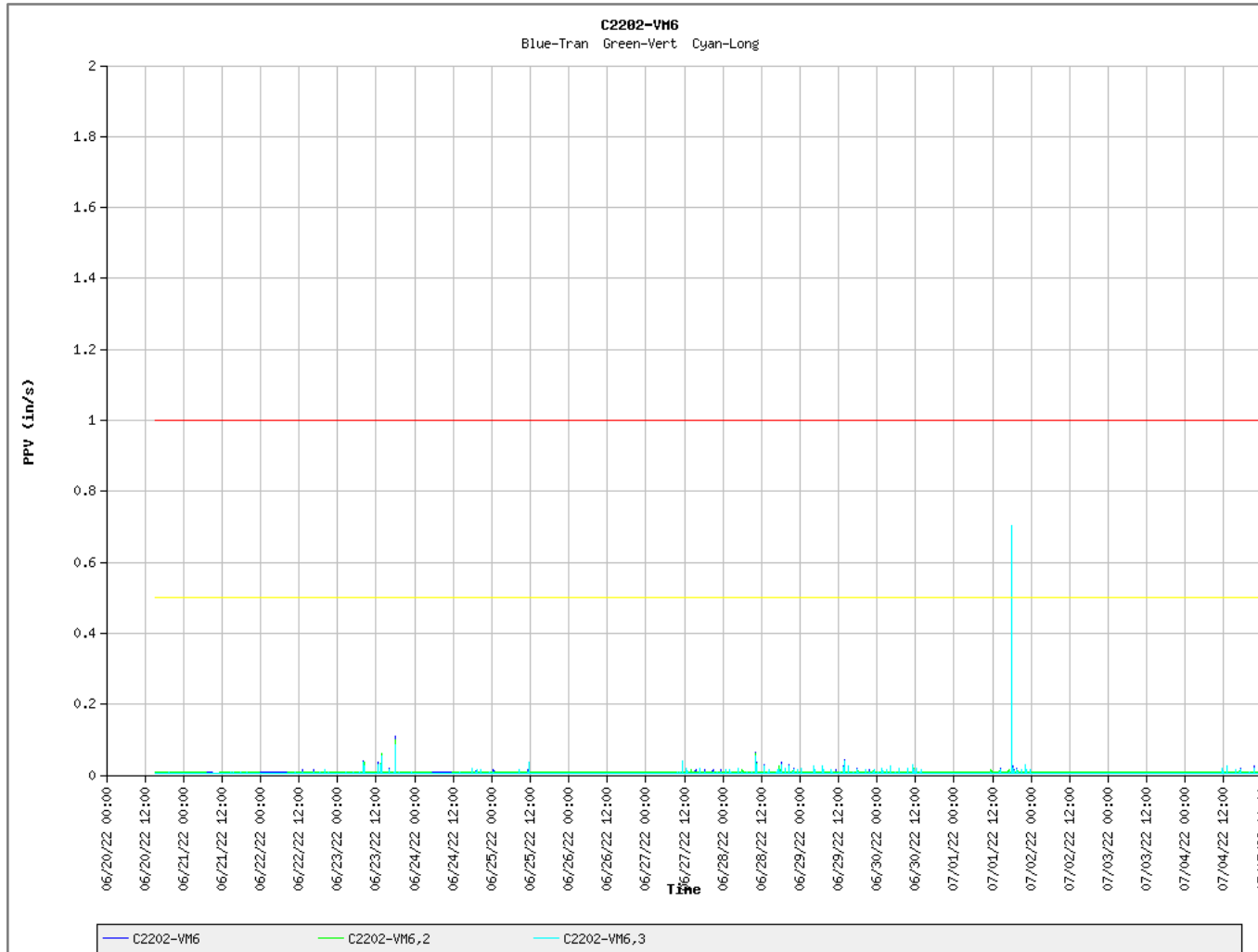
# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM5 Transverse  
C2202-VM5,2 Vertical  
C2202-VM5,3 Longitudinal

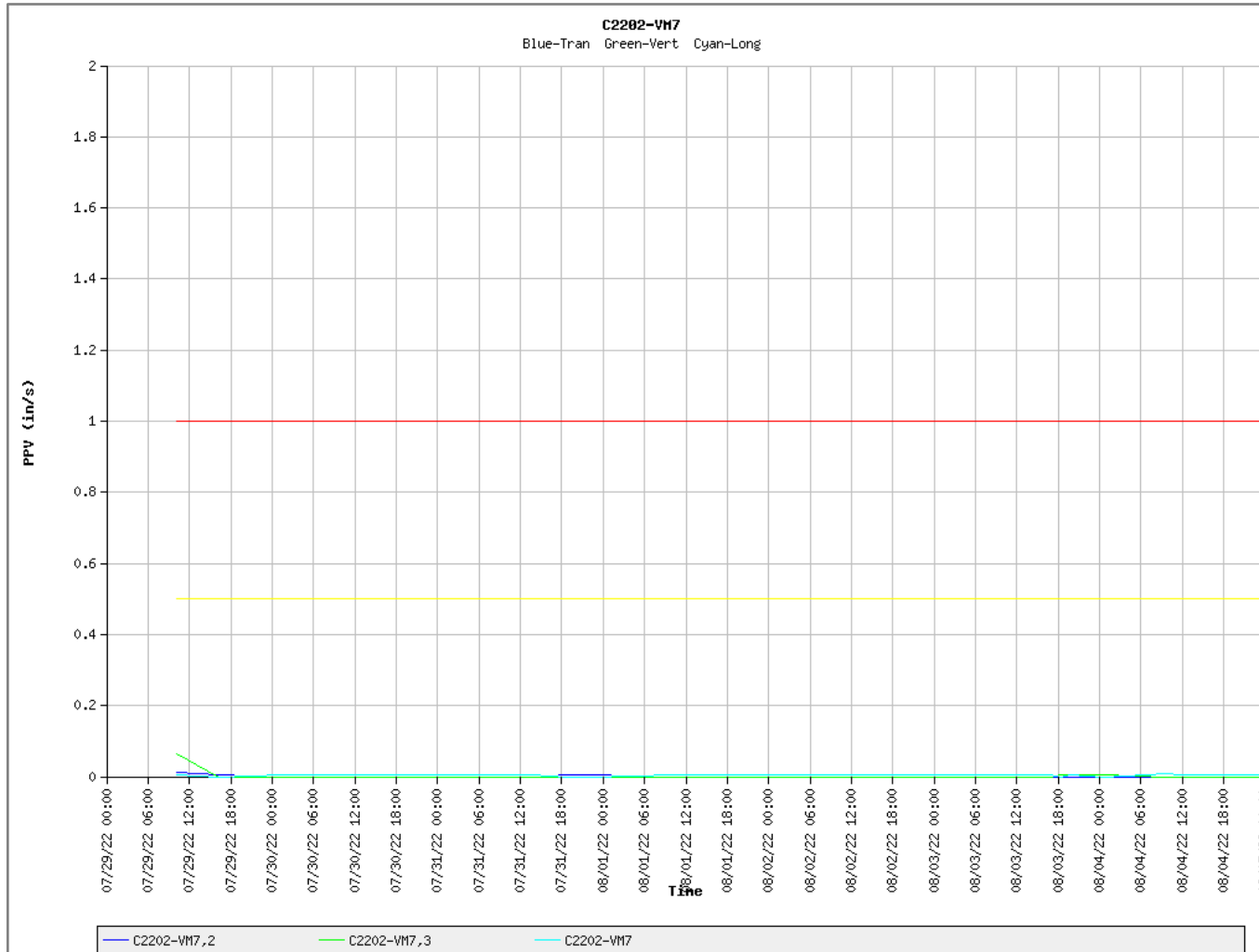
# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM6 Transverse  
C2202-VM6,2 Vertical  
C2202-VM6,3 Longitudinal

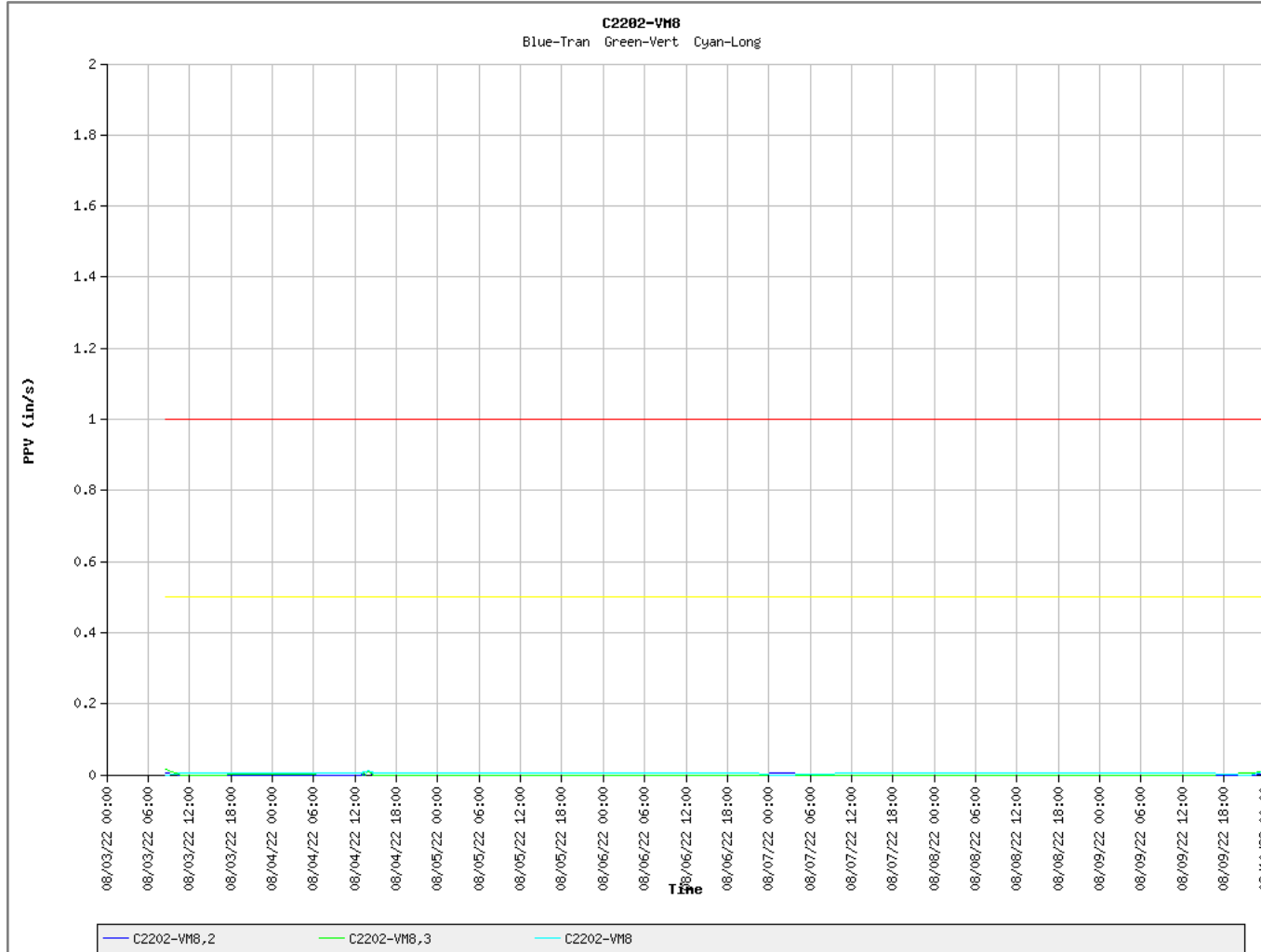
# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM7 Longitudinal  
C2202-VM7,2 Transverse  
C2202-VM7,3 Vertical

# The Bronx Site Preparation Vibration Baseline Reference Data Plots

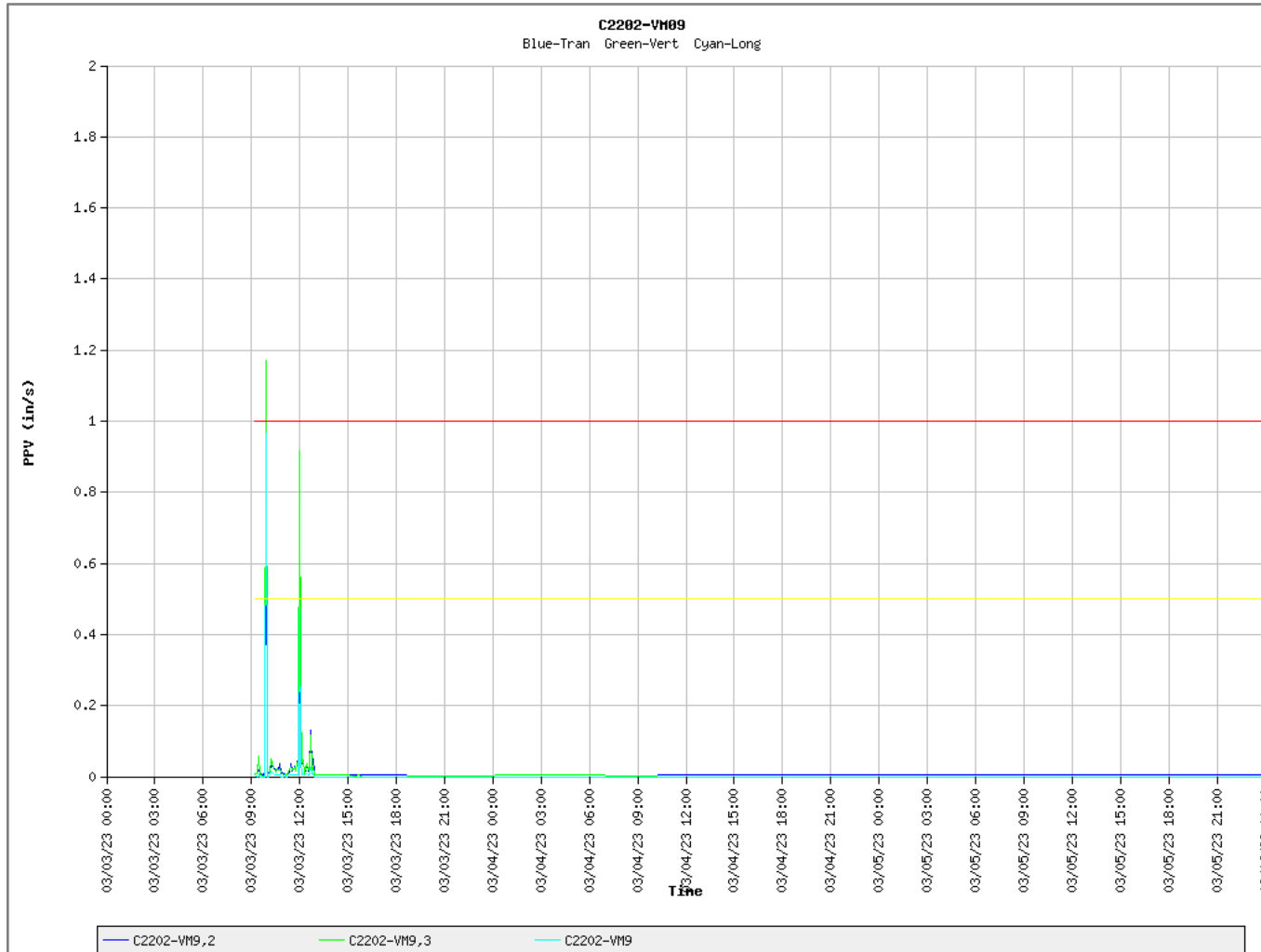


Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM8 Longitudinal  
C2202-VM8,2 Transverse  
C2202-VM8,3 Vertical



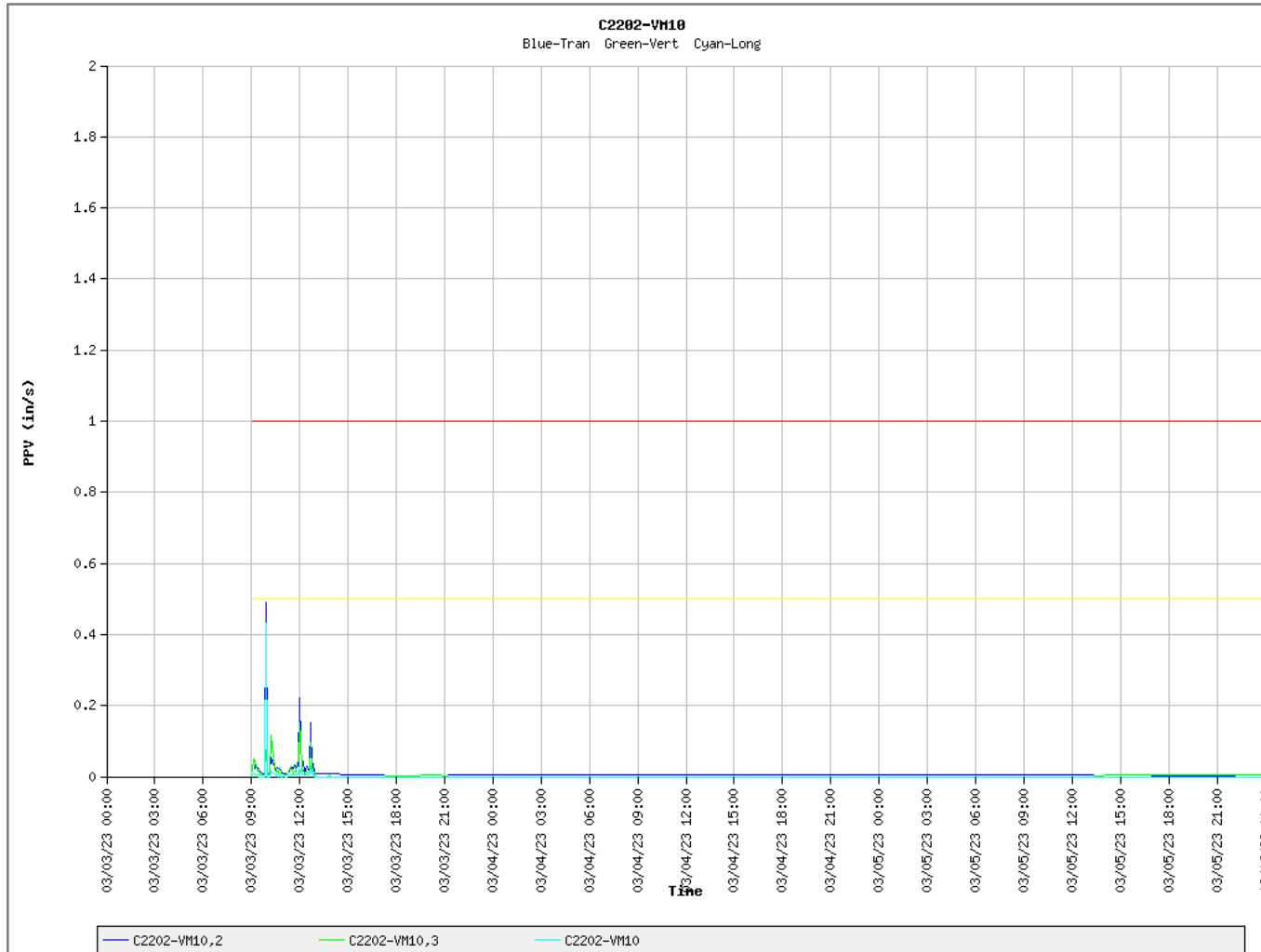
# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM9 Longitudinal  
C2202-VM9,2 Transverse  
C2202-VM9,3 Vertical

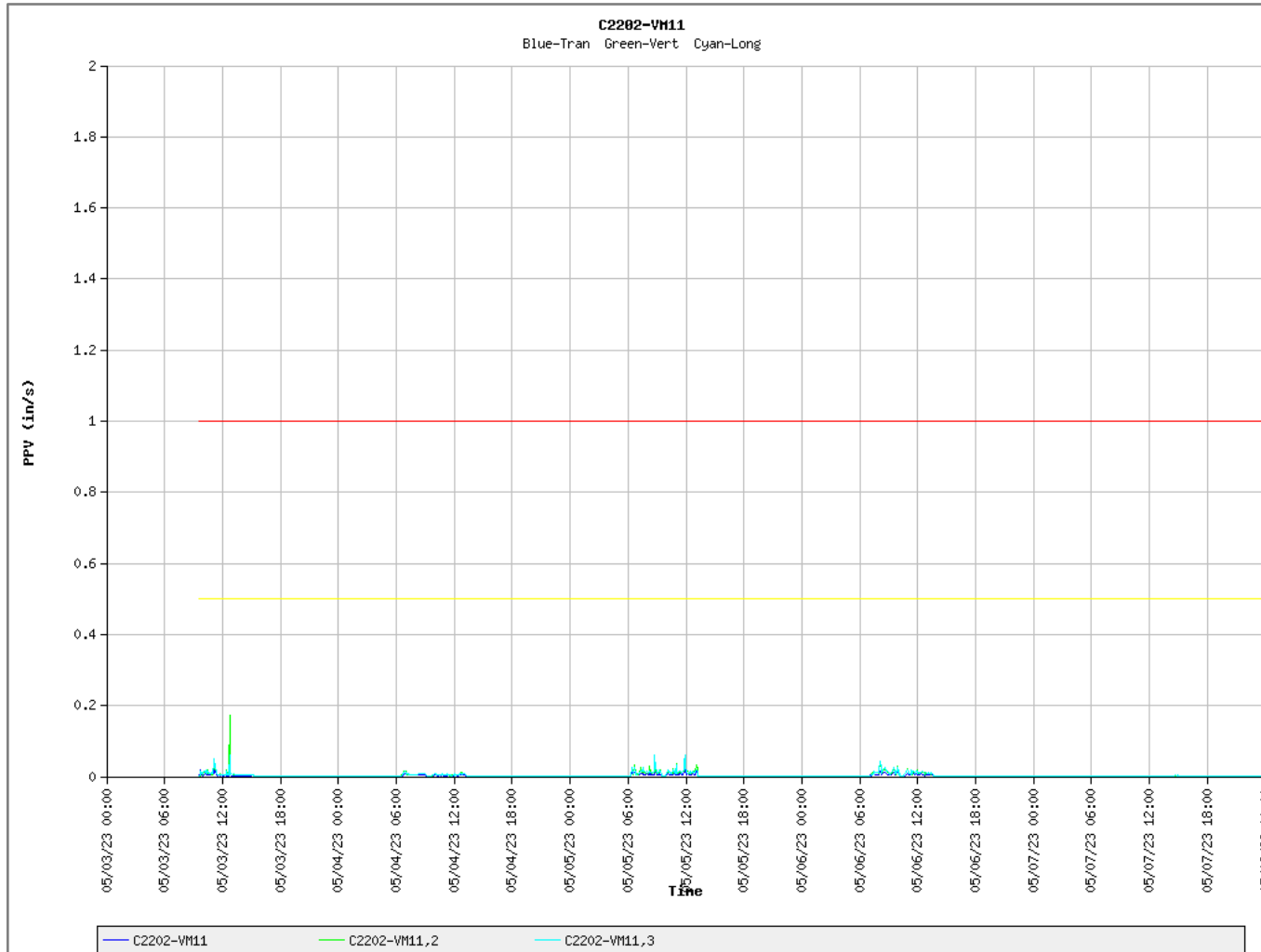
# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM10 Longitudinal  
C2202-VM10,2 Transverse  
C2202-VM10,3 Vertical

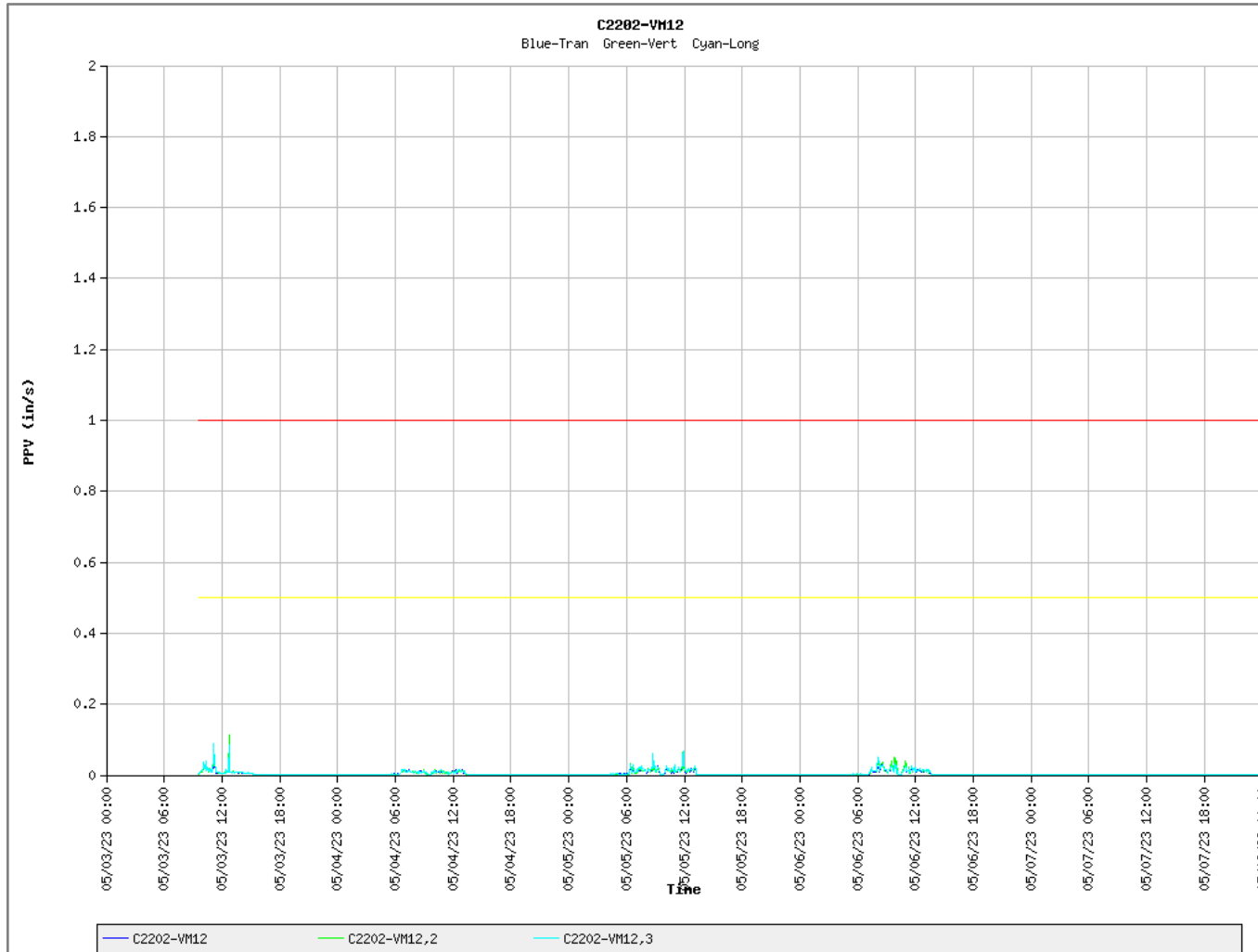
# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM11 Transverse  
C2202-VM11,2 Vertical  
C2202-VM11,3 Longitudinal

# The Bronx Site Preparation Vibration Baseline Reference Data Plots



Exceedance level: 1 in/sec  
Warning level: 0.5 in/sec

C2202-VM12 Transverse  
C2202-VM12,2 Vertical  
C2202-VM12,3 Longitudinal