

**AIR, NOISE AND VIBRATION
MONTHLY MONITORING REPORT
Number 001**

Prepared By:

DDC. Project ID:	BBJ-XSP	Period Start: 11/1/22 End 11/30/22
Project Name:	NYCDDC D&B – The Bronx Site Preparation	
DDC Pin No.:	8502021CR0004P-06P	

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
21	21	1	

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
11/4/2022 12:51PM	146	85	Street sweeper stopped work in that area

Narrative Summary of Air Monitoring, Excursions and Corrective Actions:

In November 2022, 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 or onsite workers but there was one 15-minute dust reading above 100 ug/m³ due to the offsite street sweeper passing the location of the street sweeper.

2) Community Noise Monitoring Monthly Summary

Units: 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
21	21	0	There were no noise levels above the 80 dBA limit.

Community Noise Monitoring Excursions and Corrective Actions

Action Level =70 dBA

Stop Work Level = 80 dBA

Date: Time	Maximum Noise Reading before Corrective Action (dBA)	Maximum Noise Reading after Corrective Action (dBA)	Corrective Action

Narrative Summary of Noise Monitoring, Excursions and Corrective Actions:

In November 2022, construction-related levels of noise did not surpass the limits of Local Law 113 and the daily average was below the limits and did not cause noise concerns for the community.

Mitigation measures: No corrective actions or mitigation measures were required.

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
21	30	10	Two out of eight vibration monitors (VM) had recorded a total of 12 exceedances, including outlier data. Detail 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

Stop Work Level = 1.0 in/sec above background

Date: Time	Maximum Vibration Level before Corrective Action (in/sec)	Maximum Vibration Level after Corrective Action (in/sec)	Corrective Action
11/1/2022 10:45	0.625	0.44	This is an isolated event recorded at VM4 location. Laborers installing water misters along fence near sensor this isolated event.
11/2/2022 10:05	0.535	0.11	This is an isolated event recorded at VM4 location. Laborers installing water misters along fence near sensor this isolated event.
11/22/2022 17:40	0.545	N/A	Exceedance observed at VM4 was recorded during non-construction hours.
11/25/2022 21:59	0.51	N/A	Exceedance observed at VM4 was recorded during non-construction hours.
11/30/2022 03:23	0.57	N/A	Exceedance observed at VM4 was recorded during non-construction hours.
11/4/2022 12:23	0.525	0.485	This is an isolated event recorded at VM5 location. Residents have access to the sensor.
11/9/2022 22:23	0.575	N/A	Exceedance observed at VM5 was recorded during non-construction hours.
11/11/2022 06:37	0.525	N/A	Exceedance observed at VM5 was recorded during non-construction hours.
11/15/2022 12:34	0.91	0.11	This is an isolated event recorded at VM5 location. Residents have access to the sensor.
11/19/2022 19:13 & 19:49	2.06	N/A	Exceedances observed at VM5 were recorded during non-construction hours.
11/22/2022 09:25	0.6	0.02	This is an isolated event recorded at VM5 location. Residents have access to the sensor.

Narrative Summary of Vibration Monitoring, Excursions and Corrective Actions:

In November 2022, two vibration monitors had recorded exceedances. There were isolated events recorded at VM4 and VM5.

There was exceedance recorded at VM4 on November 1st and 2nd. Laborers were installing water misters along the fence located near sensor which caused the exceedances. Once completed, the readings returned to be within the project threshold afterwards.

VM5 is installed in the basement of a residential building, where third-party are able to access to the sensor. There were isolated events recorded at VM5 during baseline period as well.

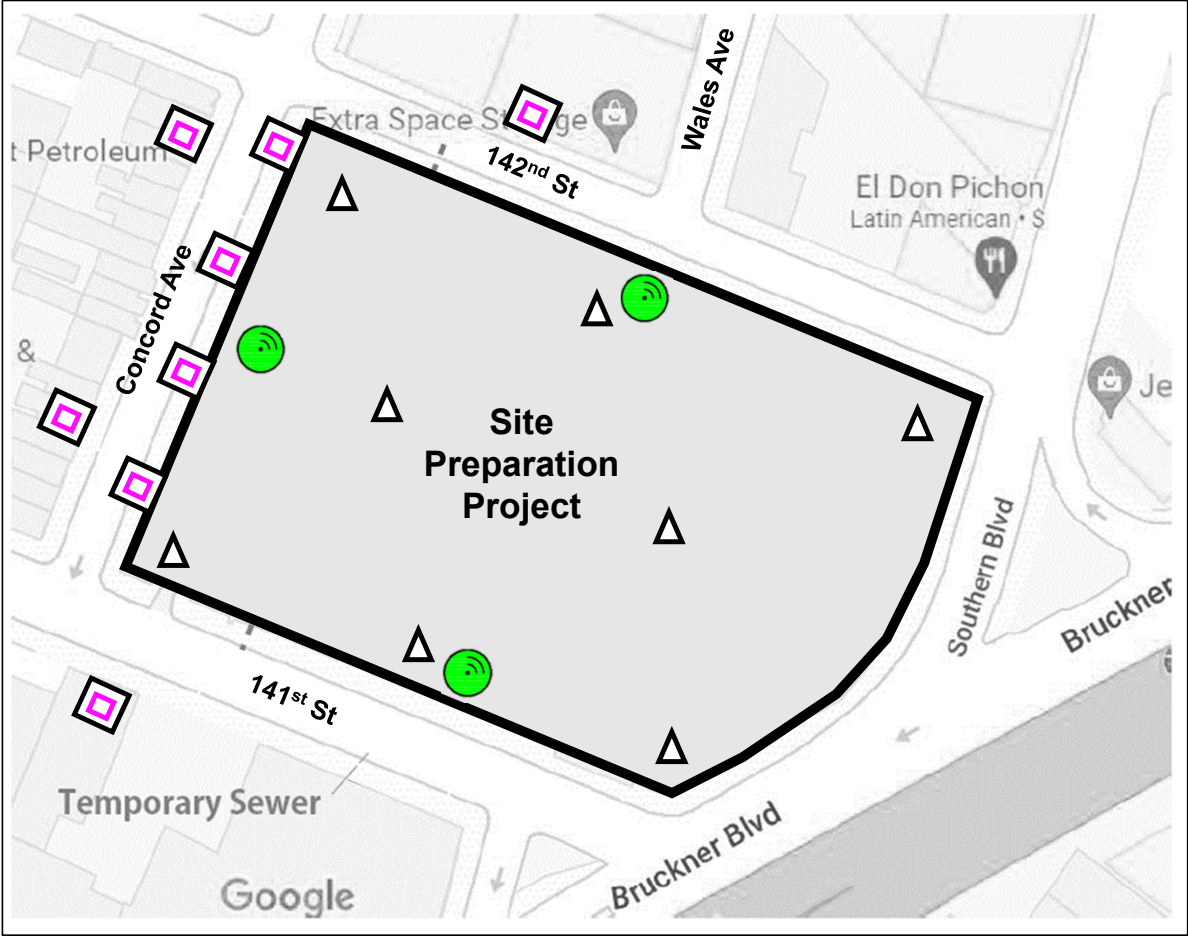
Due to limit of access issue, VM8 was relocated to 740 E. 141st St and renamed as VM8A on November 16th.




ATTACHMENTS:

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

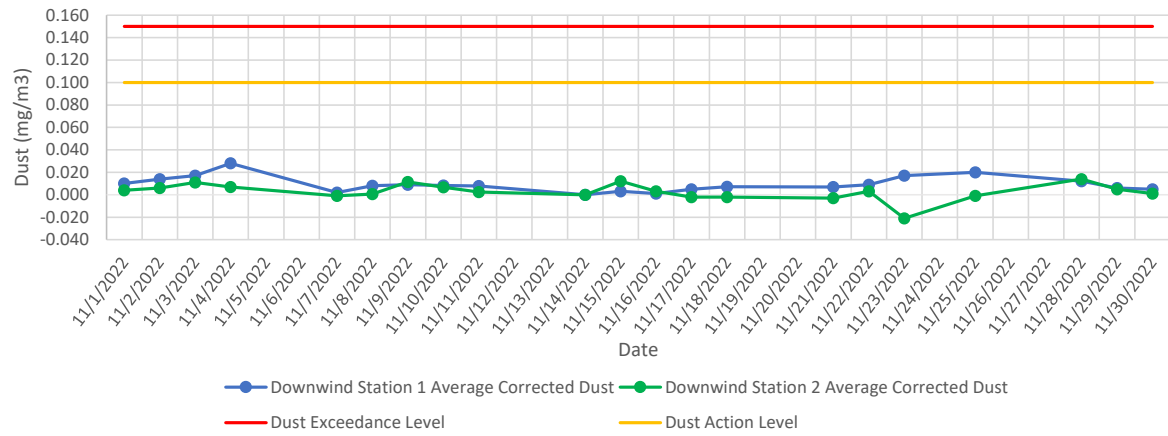
Attachments

Environmental Monitoring The Bronx

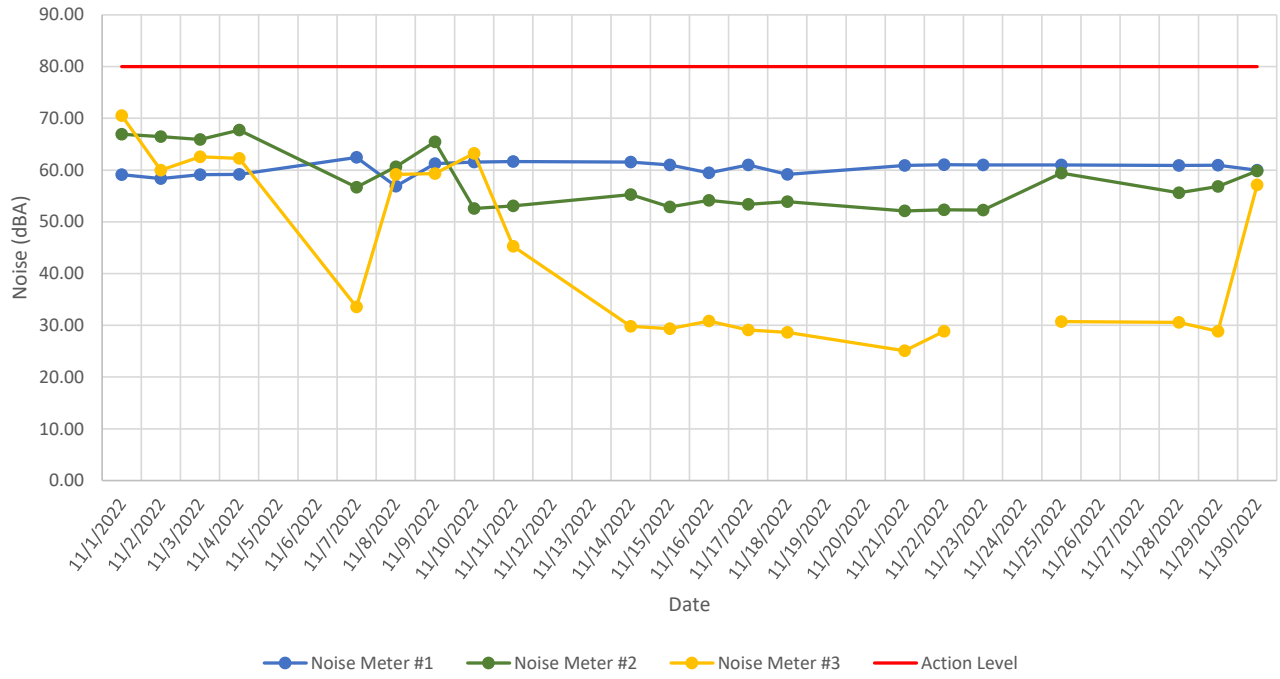


-  Vibration Monitor (VM)
-  Air Monitoring Station (DM)
-  Noise Monitoring Station (NM)

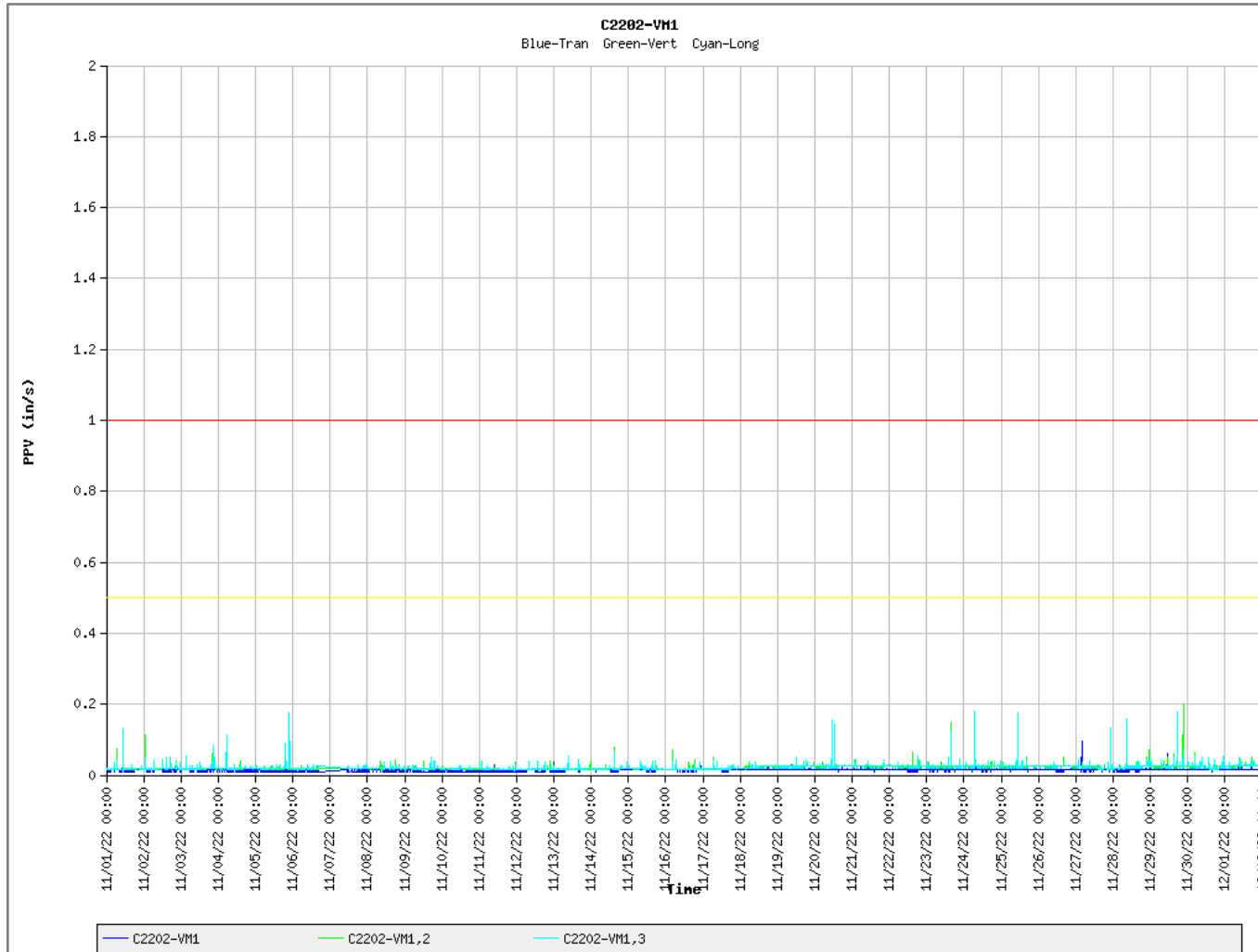
November 2022, 15-min Running Average Air Quality Data, PM 10ug/m3 Plot



November 2022, Average Equivalent Sound Level Plot (Laeq)



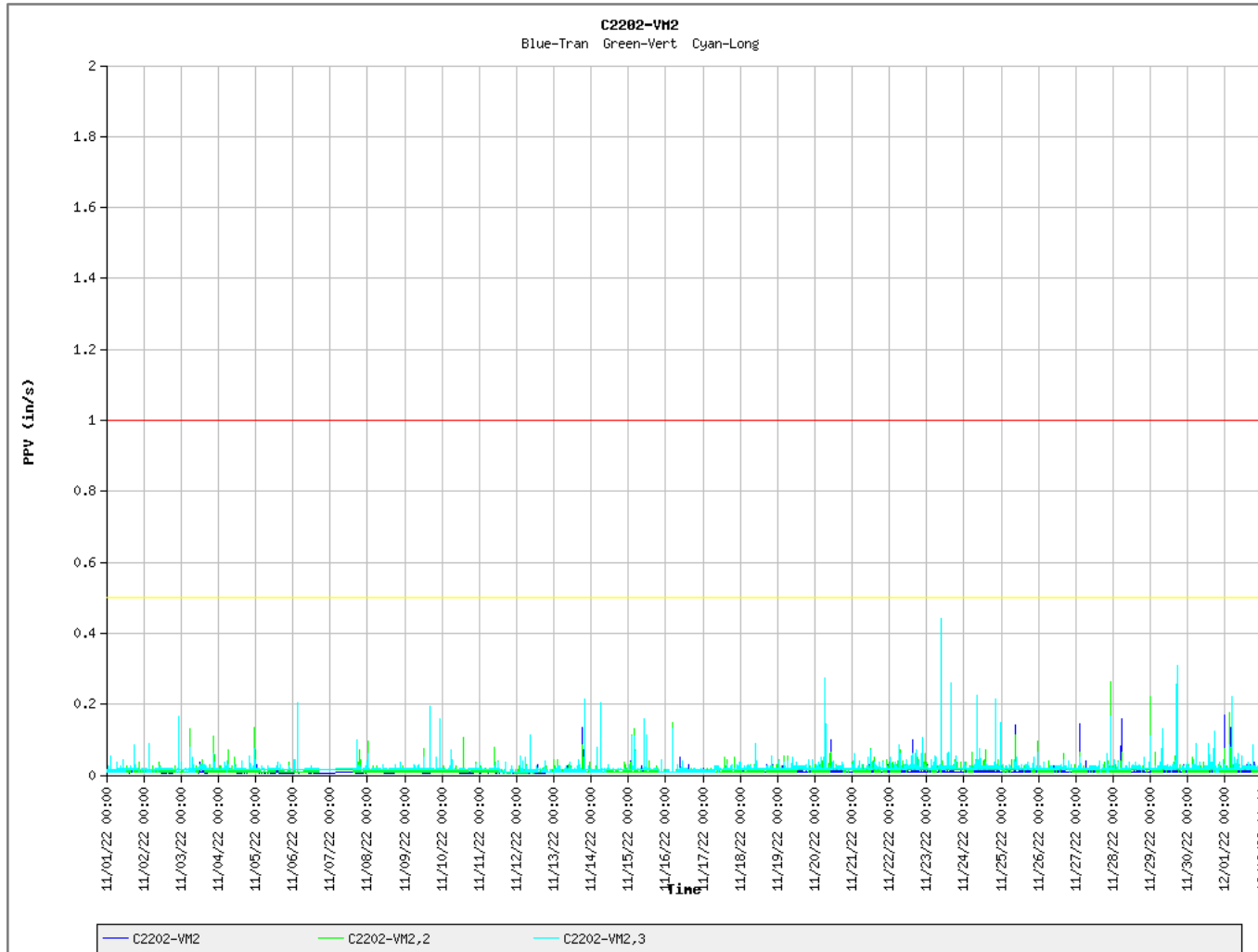
The Bronx Site Preparation November 2022 Vibration Monitoring Data Plots



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

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

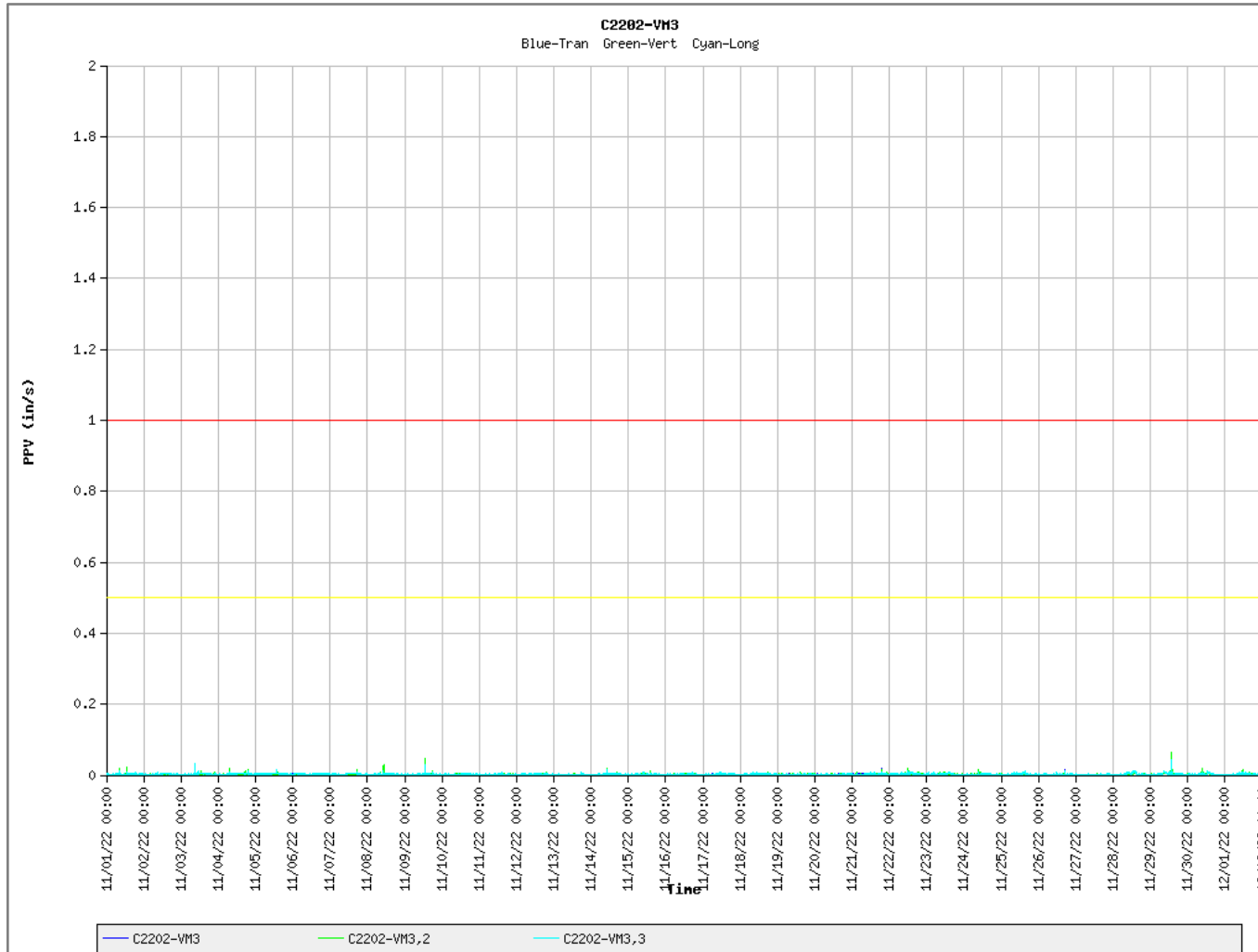
The Bronx Site Preparation November 2022 Vibration Monitoring Data Plots



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

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

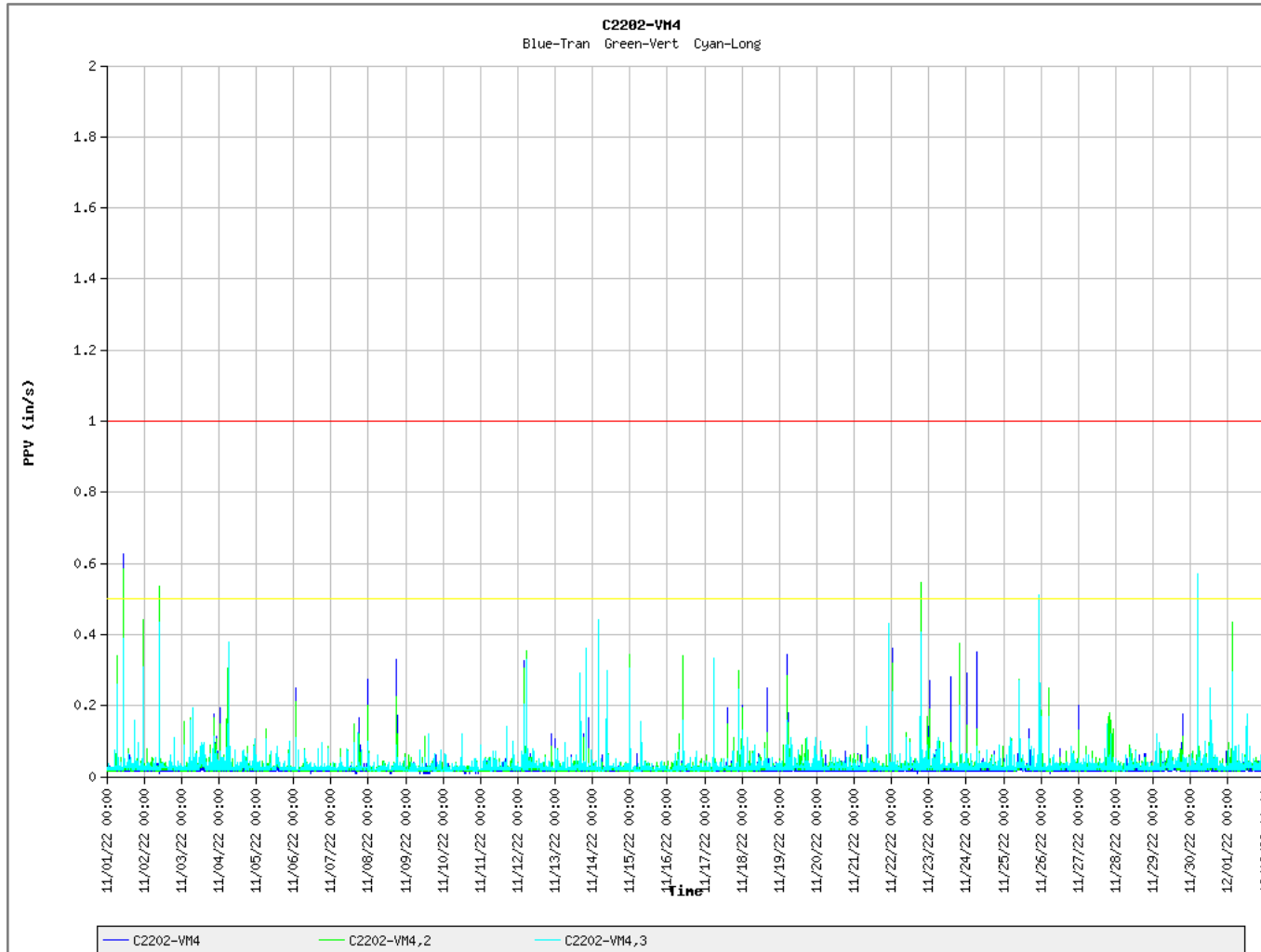
The Bronx Site Preparation November 2022 Vibration Monitoring Data Plots



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

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

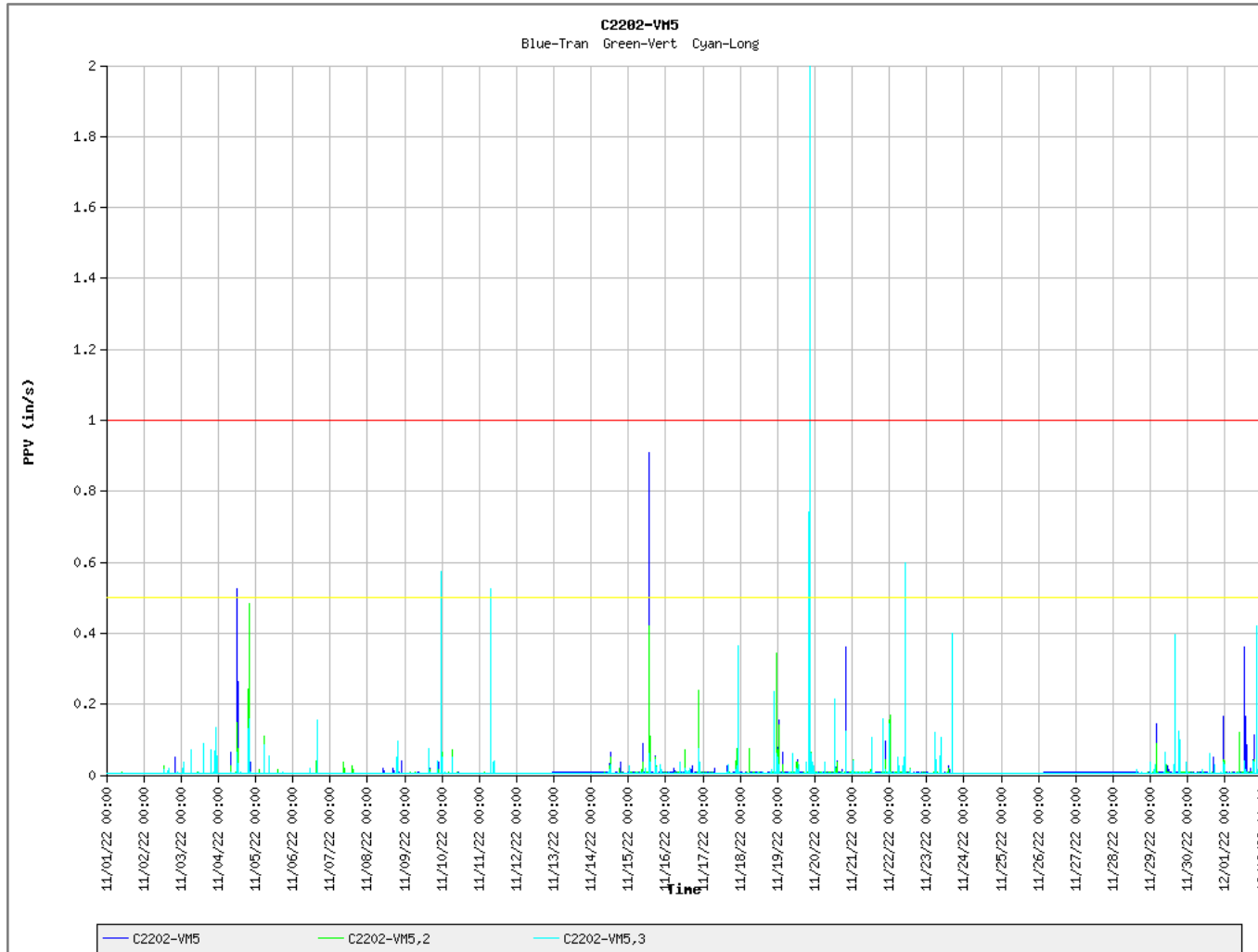
The Bronx Site Preparation November 2022 Vibration Monitoring Data Plots



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

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

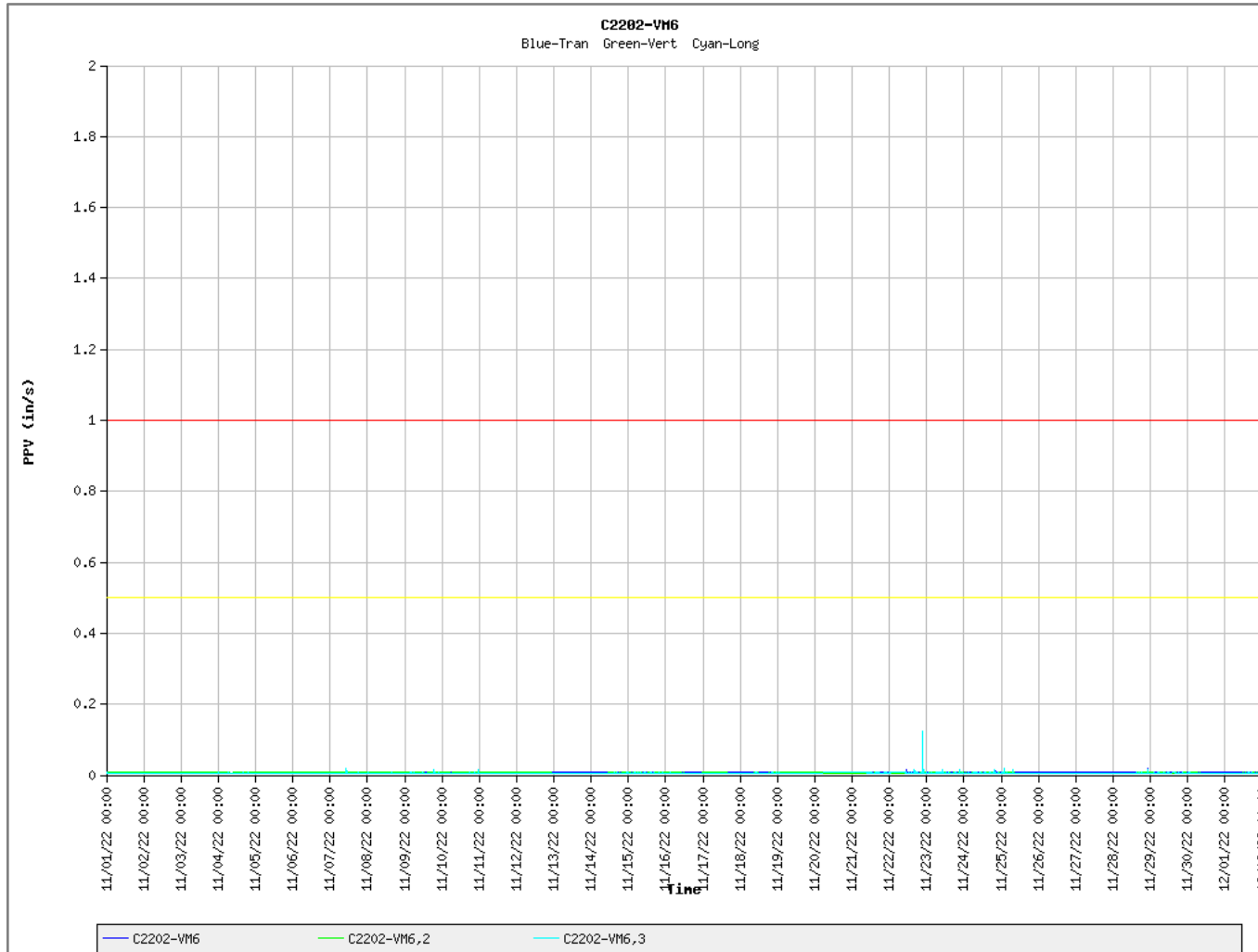
The Bronx Site Preparation November 2022 Vibration Monitoring Data Plots



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

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

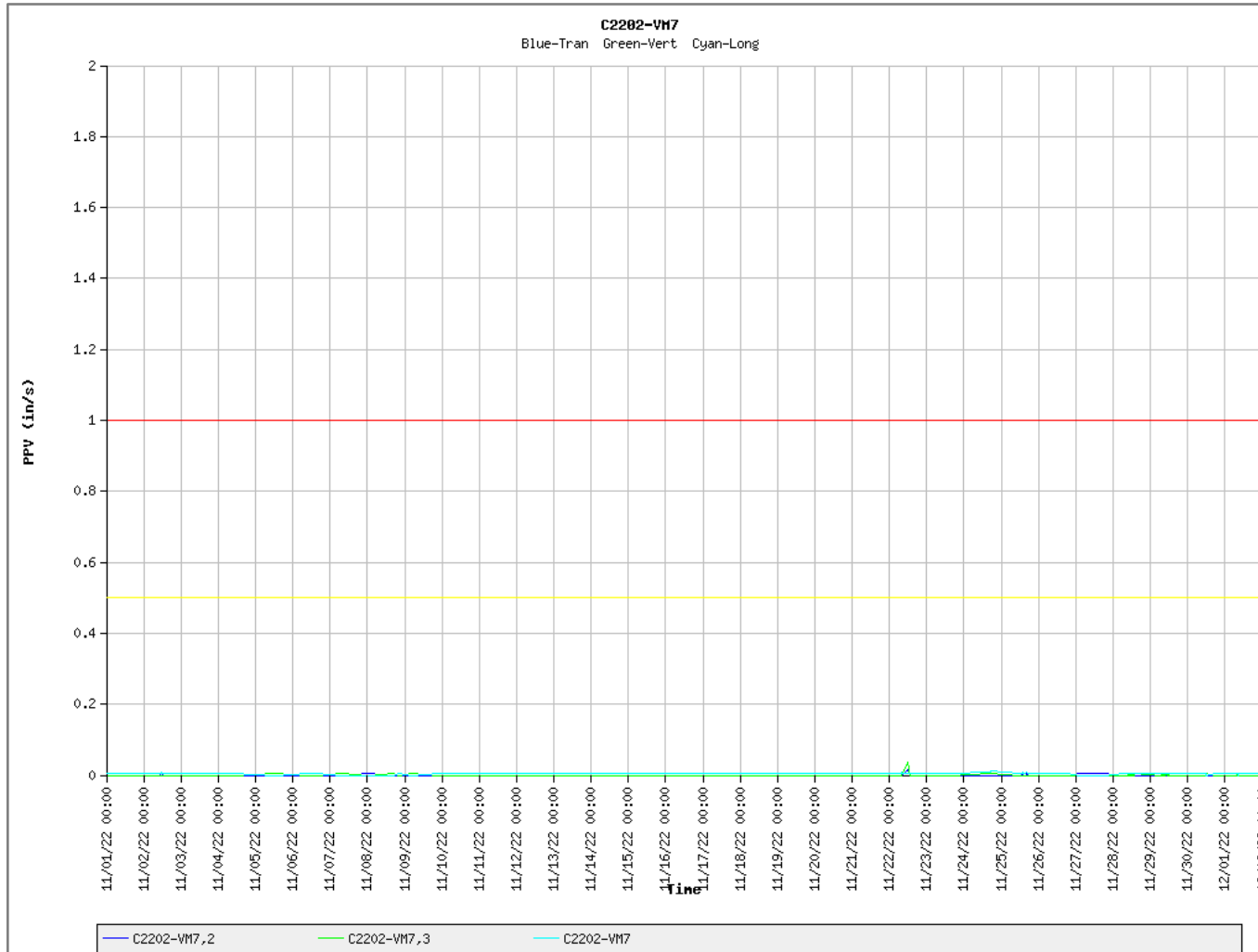
The Bronx Site Preparation November 2022 Vibration Monitoring Data Plots



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

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

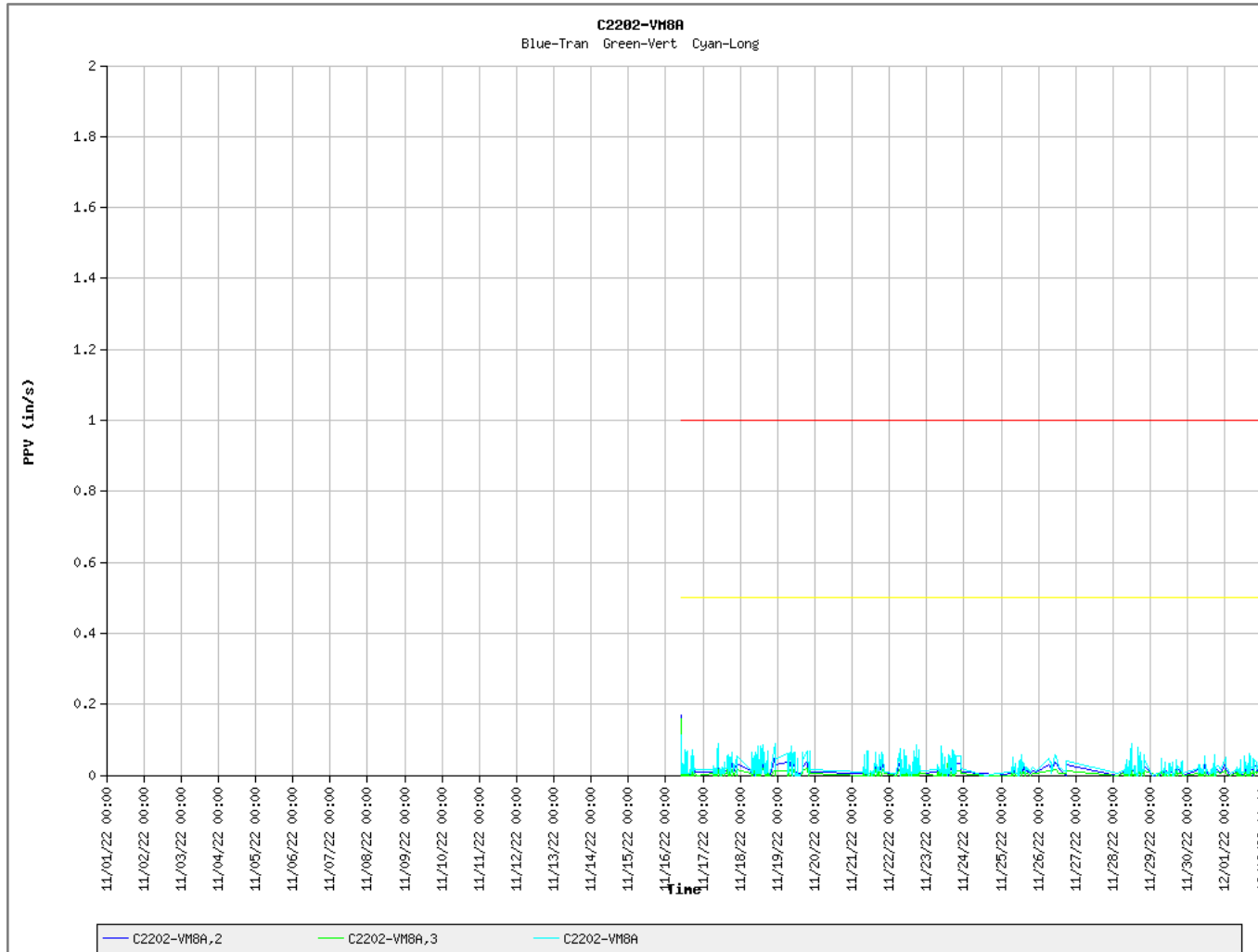
The Bronx Site Preparation November 2022 Vibration Monitoring Data Plots



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

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

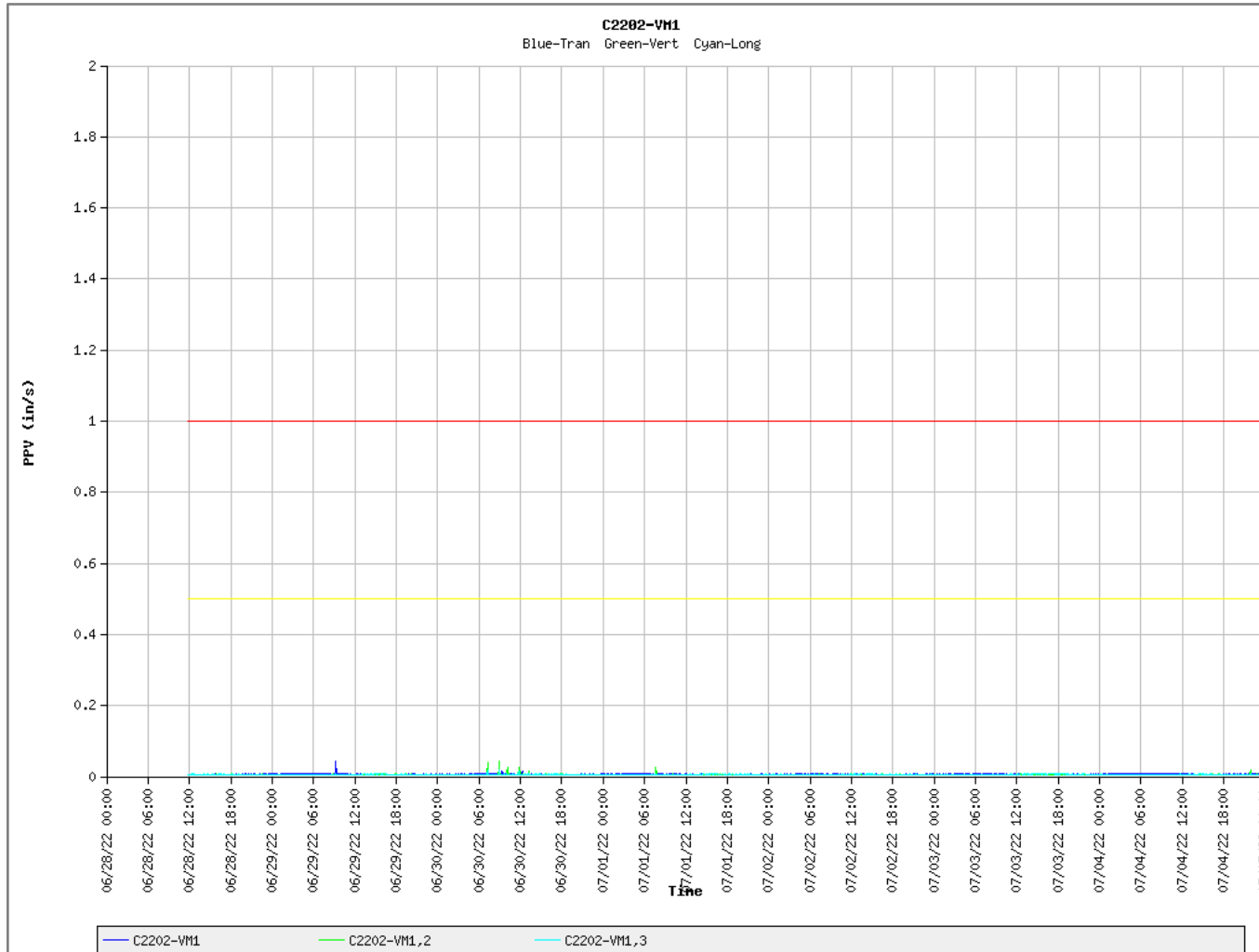
The Bronx Site Preparation November 2022 Vibration Monitoring Data Plots



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

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

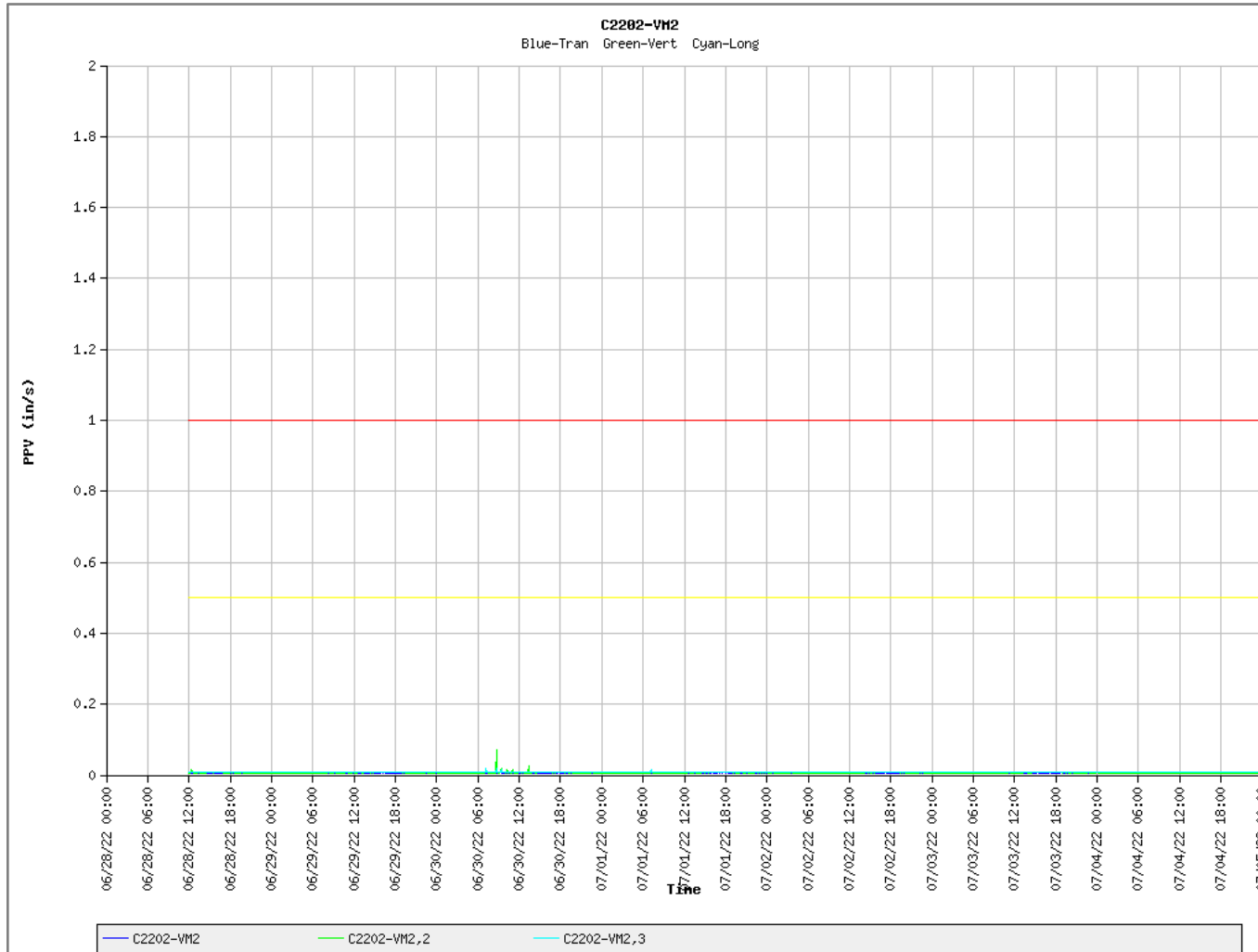
The Bronx Site Preparation Vibration Baseline Reference Data Plots



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

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

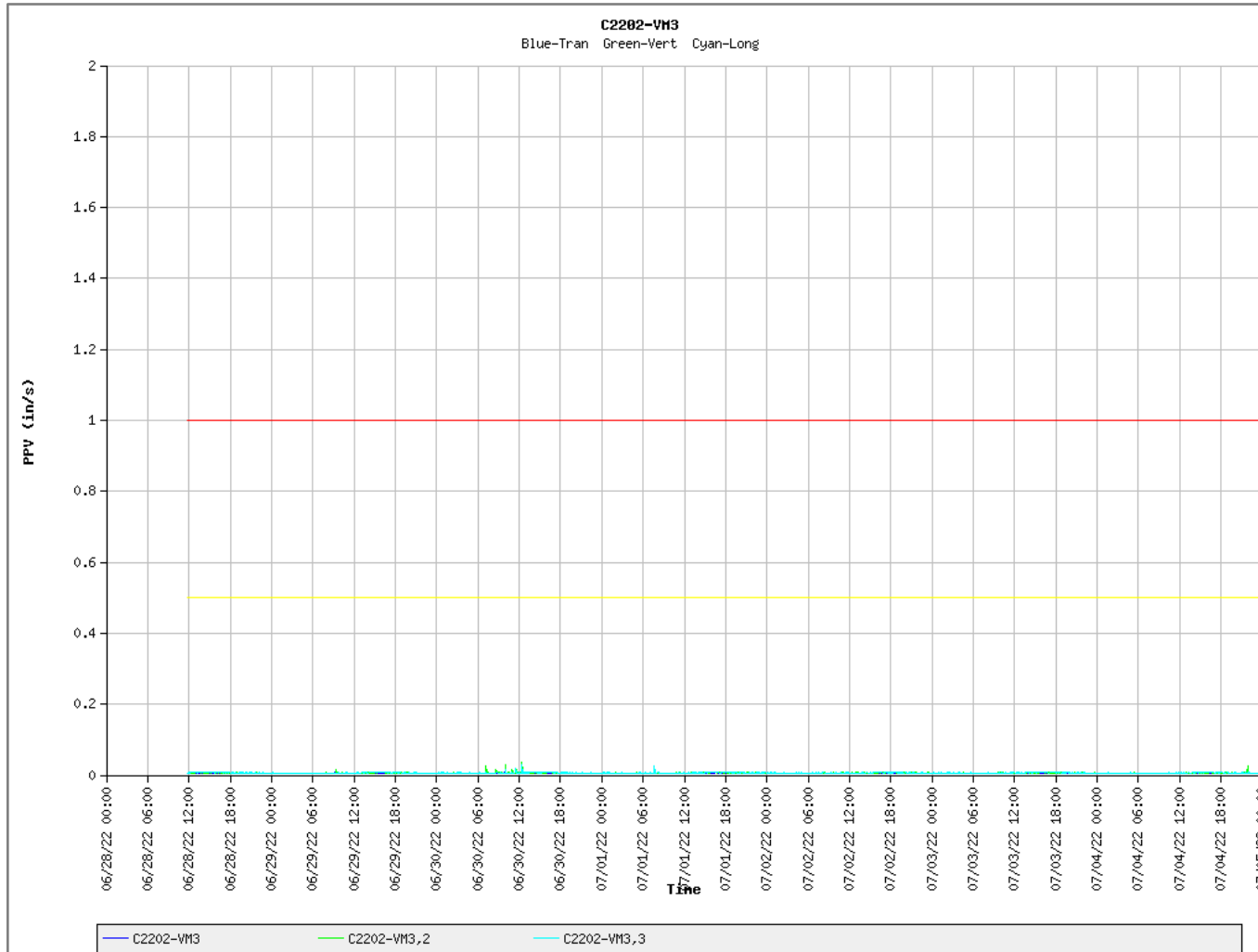
The Bronx Site Preparation Vibration Baseline Reference Data Plots



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

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

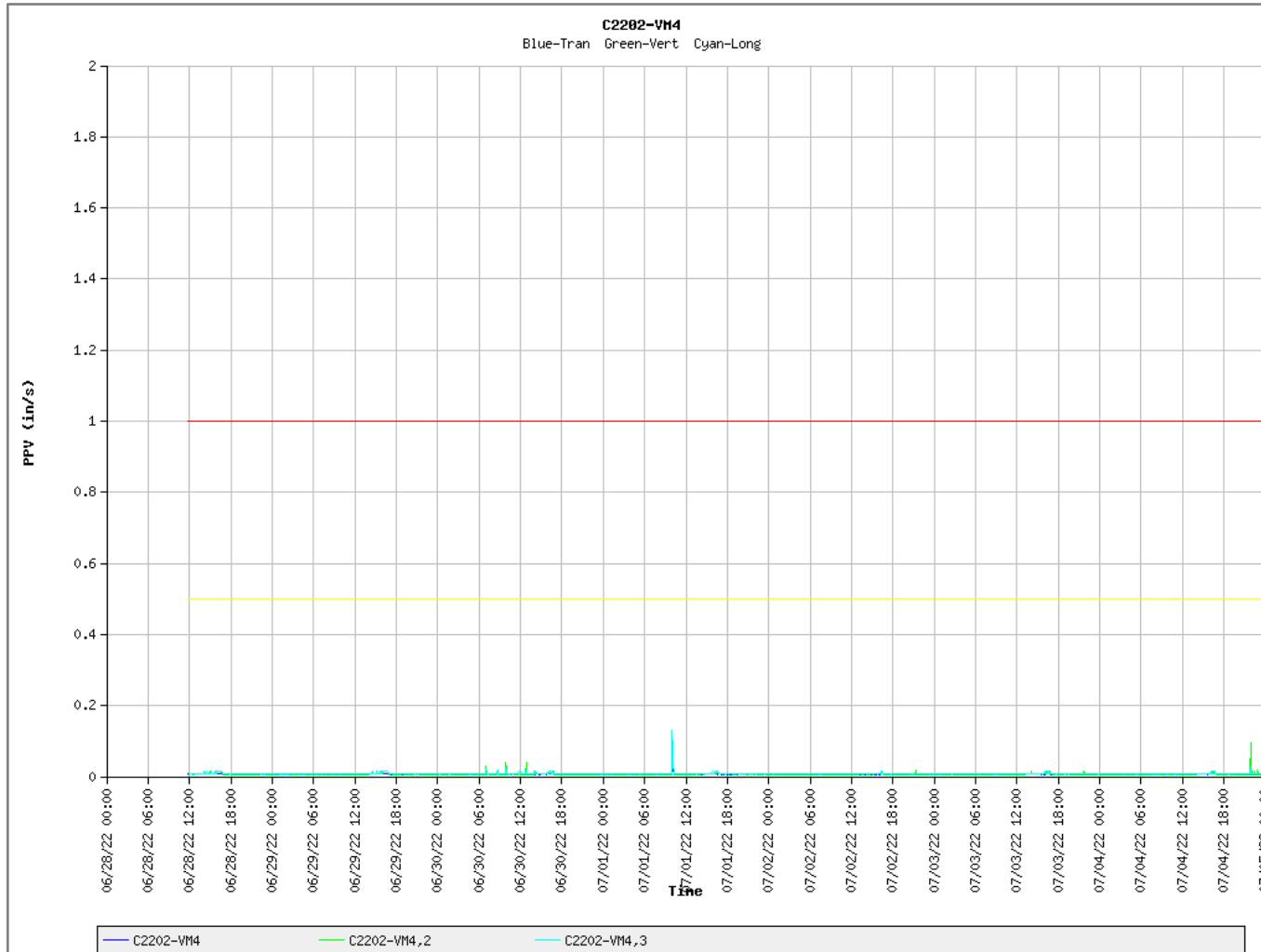
The Bronx Site Preparation Vibration Baseline Reference Data Plots



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

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

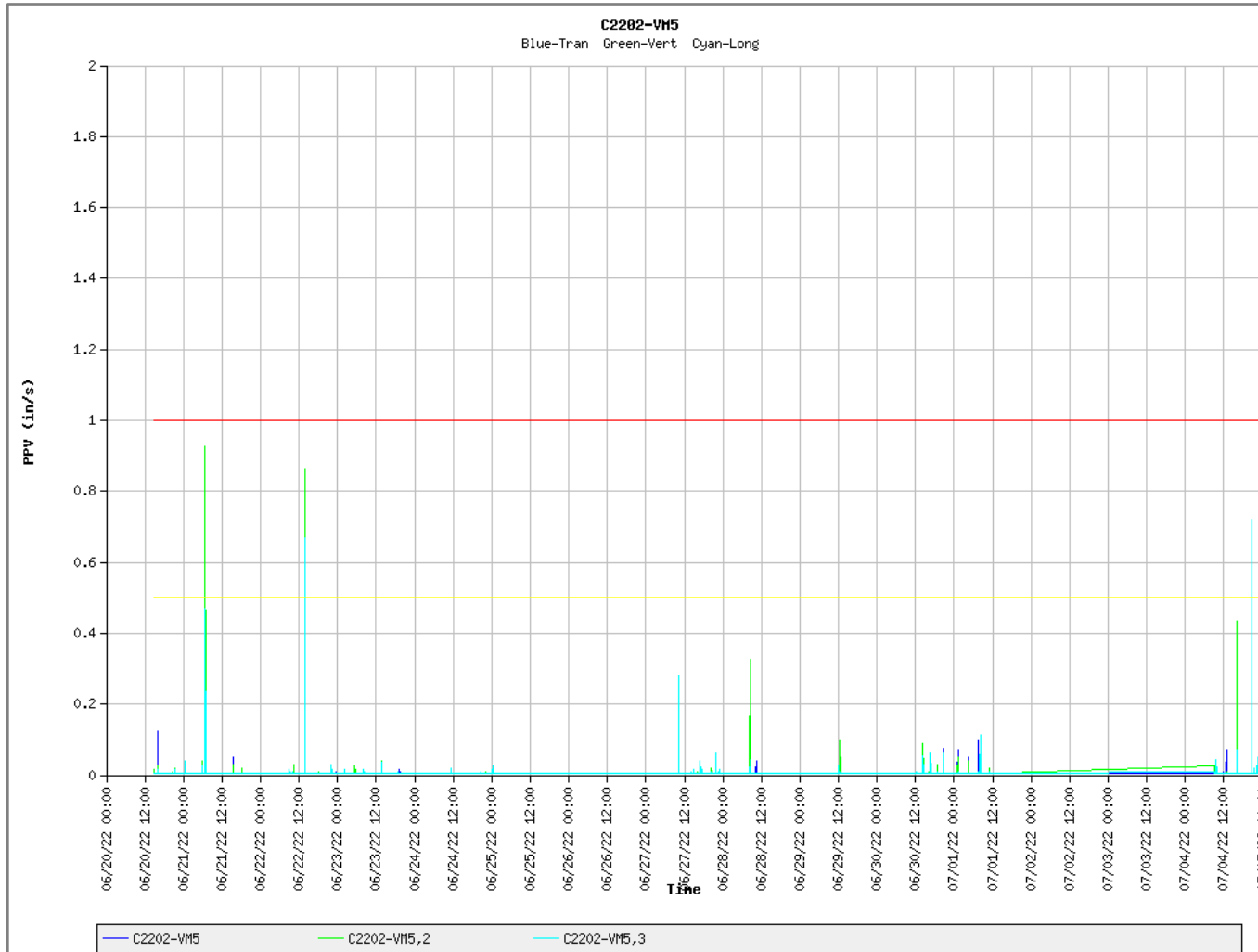
The Bronx Site Preparation Vibration Baseline Reference Data Plots



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

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

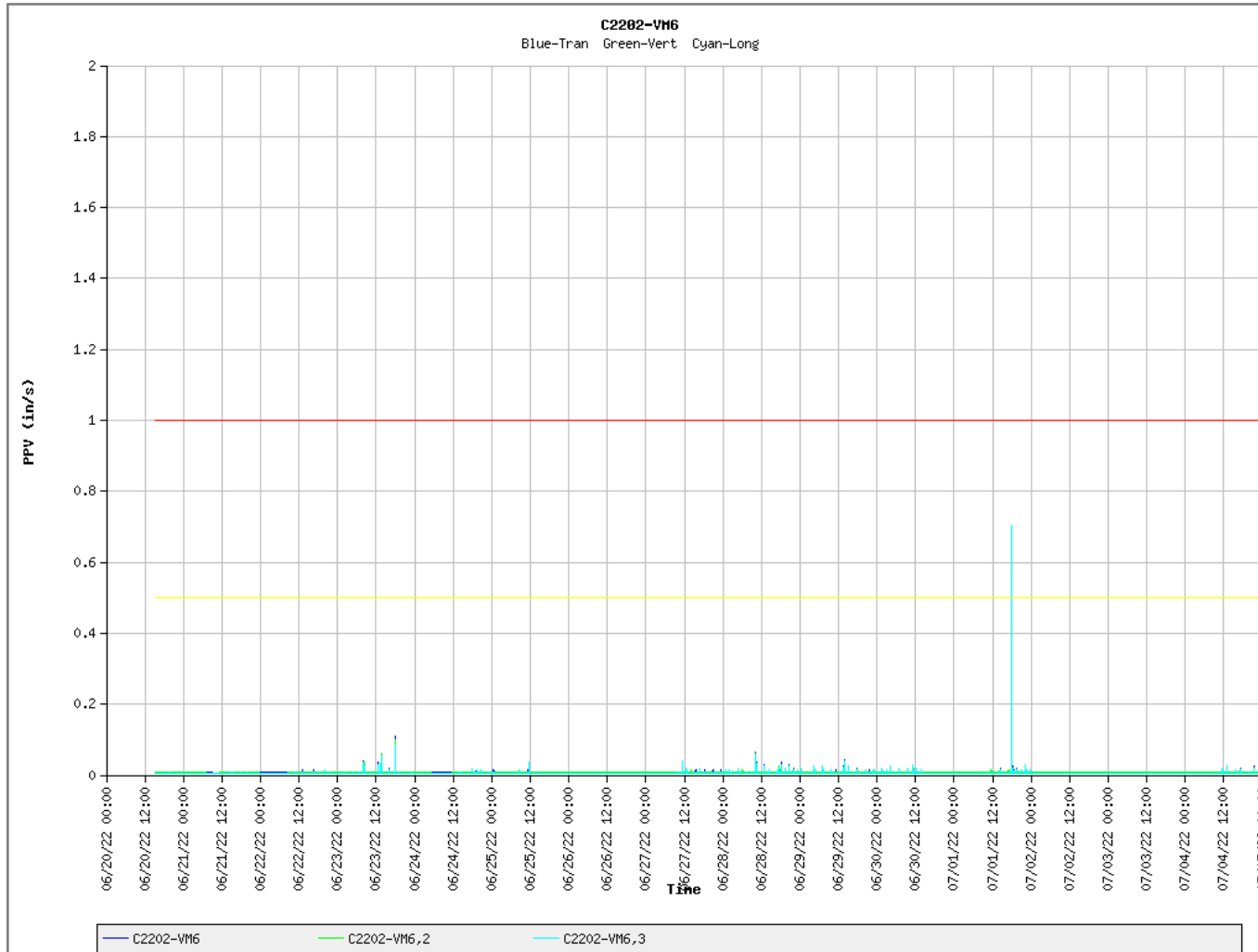
The Bronx Site Preparation Vibration Baseline Reference Data Plots



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

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

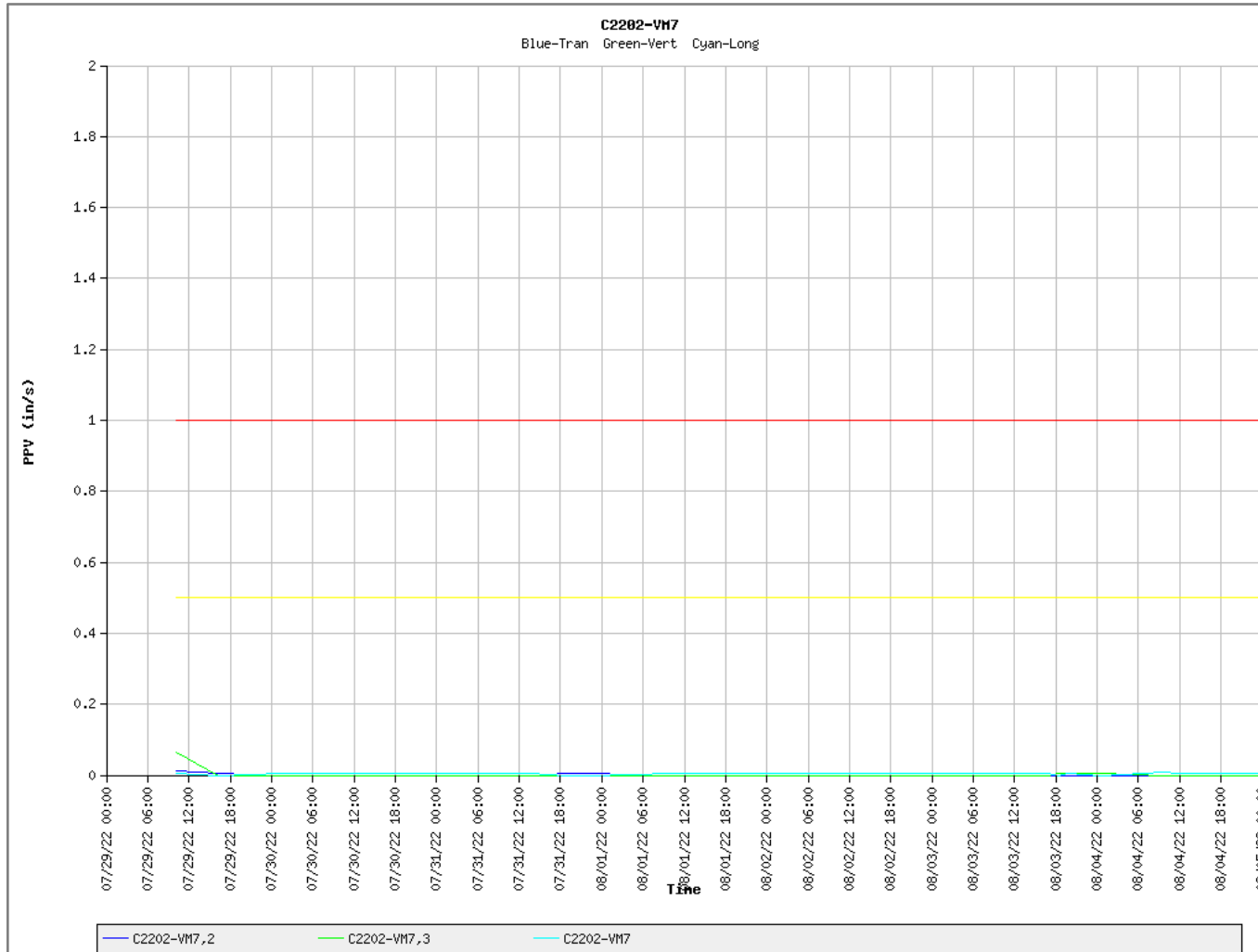
The Bronx Site Preparation Vibration Baseline Reference Data Plots



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

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

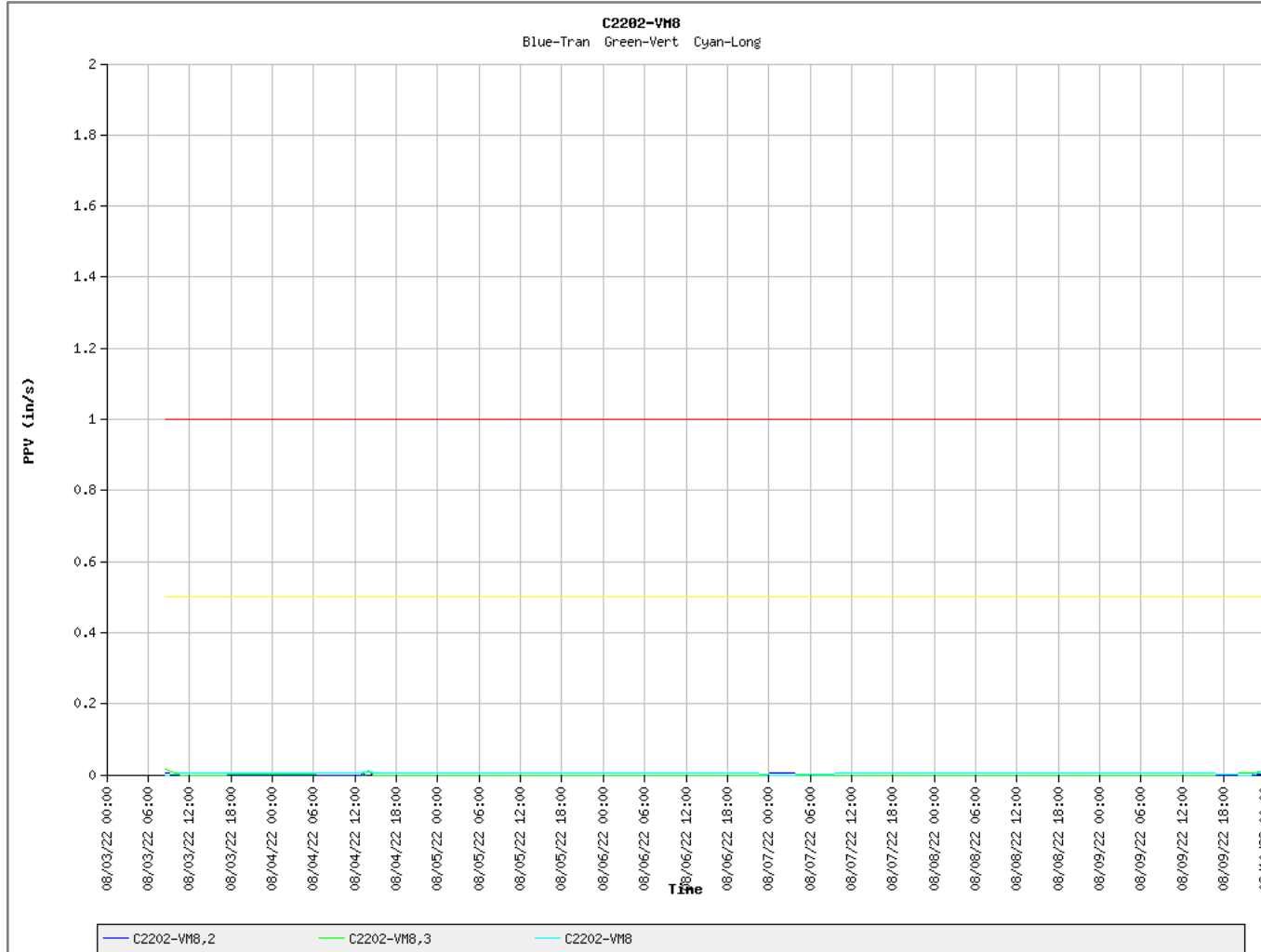
The Bronx Site Preparation Vibration Baseline Reference Data Plots



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

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

The Bronx Site Preparation Vibration Baseline Reference Data Plots



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

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