



Department of the Army
New York District Corps of Engineers
Jacob K. Javits Federal Building
26 Federal Plaza
New York, NY 10278-0090

Week of December 22 – December 28, 2008

The following file displays the results from the USACE-NYD real-time website for the week of Monday, December 22, through Sunday, December 28, 2008.

The even pages display the home page showing the maximum vibration measured in all of the stations for most recent event for each day:

December 22
December 23
December 24
December 25
December 26
December 27
December 28

The odd pages show the maximum vibration observed at each station along easting for each event.

Blasting has not started. We do not anticipate blasting to start until sometime in 2009. The results for this week show the ambient results measured at the two active stations: one at 350 Richmond Terrace and the other at St. Peters Church. The station locations are on each page.

The maximum vibrations are observed at 350 Richmond Terrace. The higher vibrations result from traffic during the daylight hours. All levels are all below 0.0350 in/s. This magnitude is an order of magnitude below the allowable vibrations shown by the straight lines on the graphs.

The measurements at St. Peters Church are below 0.0350 in/s. St. Peters Church is one block up the hill from Richmond Terrace traffic. They fall below the x-axis on the event page.



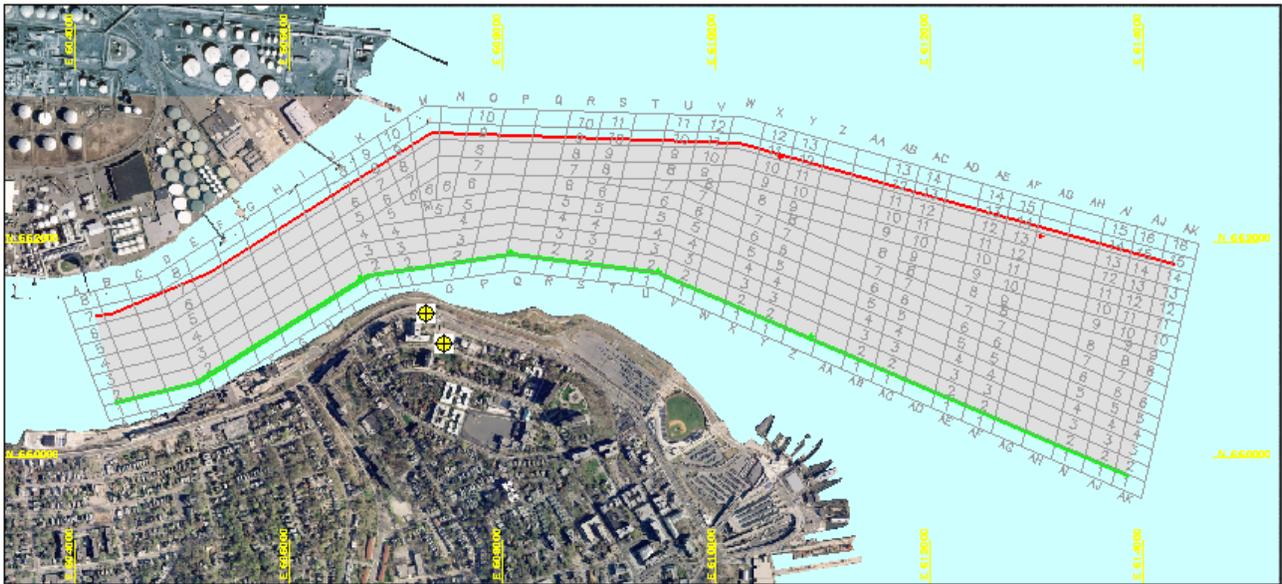
Kill Van Kull Blast Vibration Summary

This site summarizes the measured ground vibrations in St. George, Staten Island, from rock blasting in the Kill Van Kull and other possible sources. The site is updated daily. The data are intended for the sole use of the US Army Corps of Engineers - New York District, for managing and monitoring the performance of NYNJ Harbor Deepening Project Contract S-KVK-1 starting 29 September 2008.

This page represents the most recent observations.

The S-KVK-1 contract area is mapped below in solid gray. The navigation grid is superimposed. The dredge locations are marked by a green symbol. The drilling and blasting barge is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

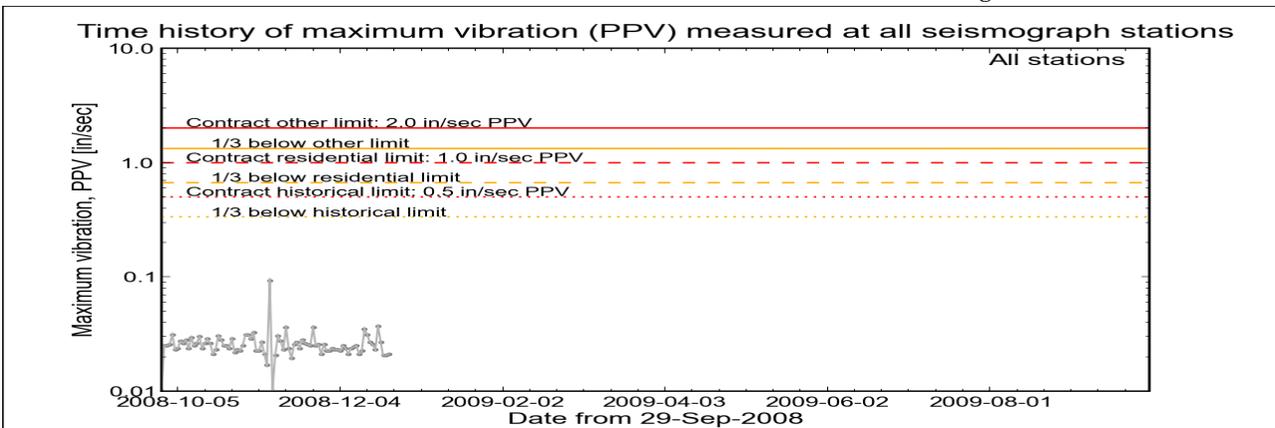
Click station for station information or click channel for event summary.



Latest Event Summary

The graph below is a plot of the maximum vibration recorded by any and all of the numerous seismograph stations during the current observation event (ambient or blast). The horizontal axis gives the date from the start of the project on 29 September 2008. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). The red curves show the project's contract limits; the orange curves show one-third (1/3) below these contract limits. (*The light gray curve is ambient-vibration level. The black curve is blast-vibration level. The dark gray curve is predicted blast-vibration level.*)

Date and time of last reading: Mon 22-Dec-2008 13:46:34



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Mon 22-Dec-2008	13:46:34	0.0212	350 Richmond Terrace
Ambient	Sun 21-Dec-2008	16:18:35	0.0206	350 Richmond Terrace
Ambient	Sat 20-Dec-2008	17:46:32	0.0206	350 Richmond Terrace
Ambient	Fri 19-Dec-2008	15:01:31	0.0269	350 Richmond Terrace
Ambient	Thu 18-Dec-2008	18:48:00	0.0369	350 Richmond Terrace
Ambient	Wed 17-Dec-2008	14:18:23	0.0231	350 Richmond Terrace



Kill Van Kull Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

The S-KVK-1 contract area is mapped below in solid blue with a top-of-rock map. The dredge locations are marked by a green symbol. The drilling and blasting barge location is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

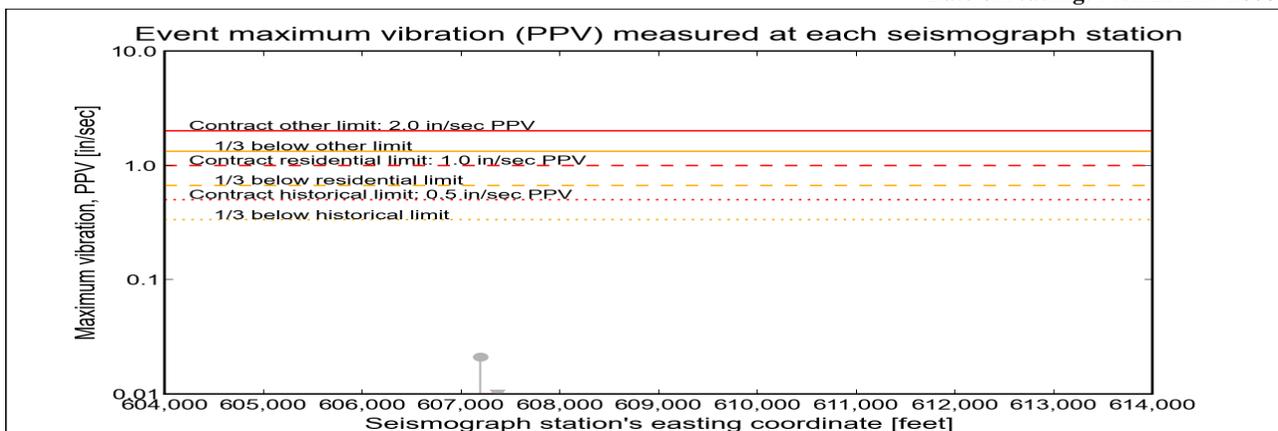
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Mon 22-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Mon 22-Dec-2008	13:46:34	0.0212	Ambient
St. Peters Church - e4s001	Mon 22-Dec-2008	02:31:34	0.00375	Ambient



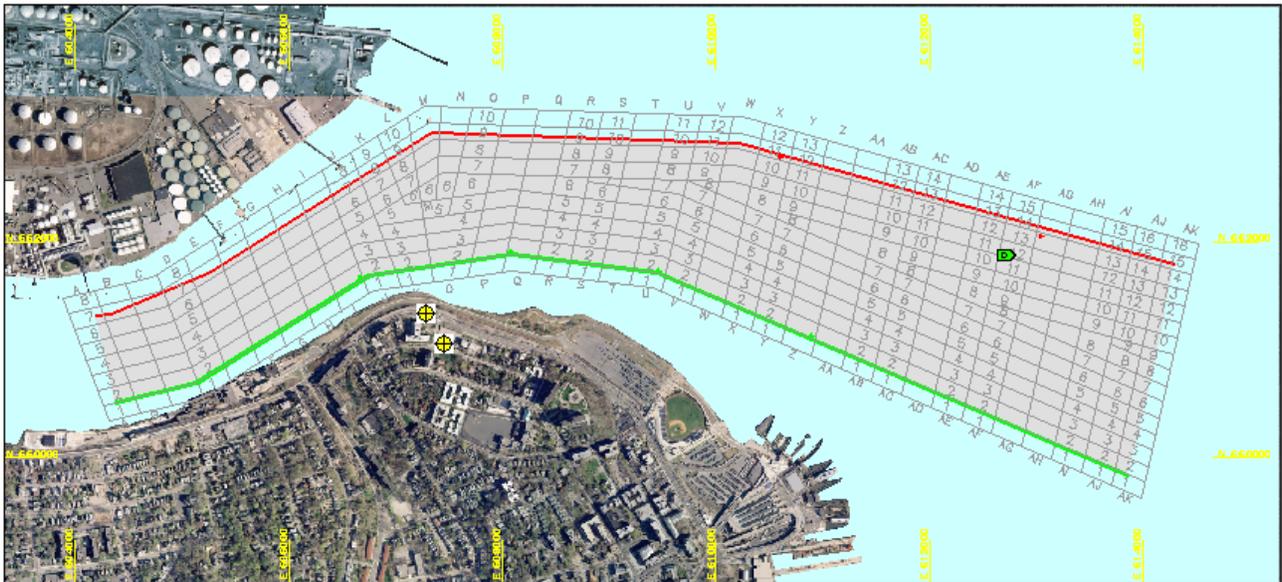
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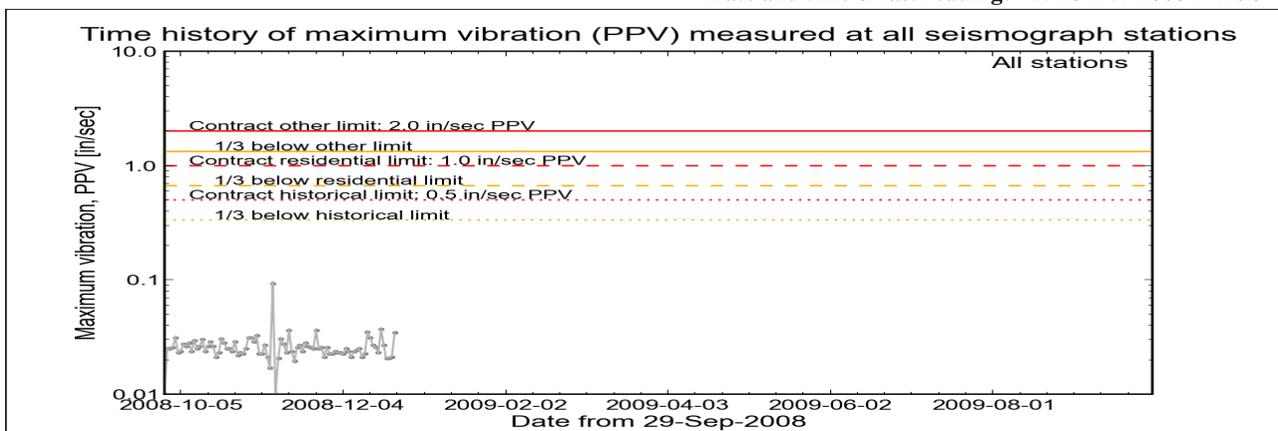
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Latest Event Summary

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Date and time of last reading: Tue 23-Dec-2008 14:16:34



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Tue 23-Dec-2008	14:16:34	0.0344	St. Peters Church
Ambient	Mon 22-Dec-2008	13:46:34	0.0212	350 Richmond Terrace
Ambient	Sun 21-Dec-2008	16:18:35	0.0206	350 Richmond Terrace
Ambient	Sat 20-Dec-2008	17:46:32	0.0206	350 Richmond Terrace
Ambient	Fri 19-Dec-2008	15:01:31	0.0269	350 Richmond Terrace
Ambient	Thu 18-Dec-2008	18:48:00	0.0369	350 Richmond Terrace



Kill Van Kull Blasting Event Summary

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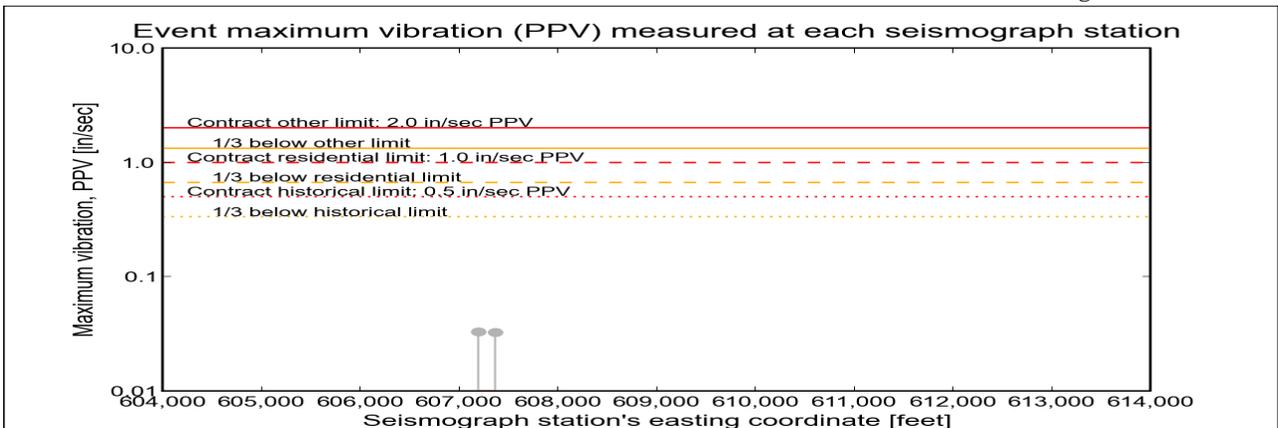
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Tue 23-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Tue 23-Dec-2008	14:16:34	0.0331	Ambient
St. Peters Church - e4s001	Tue 23-Dec-2008	14:16:34	0.0325	Ambient



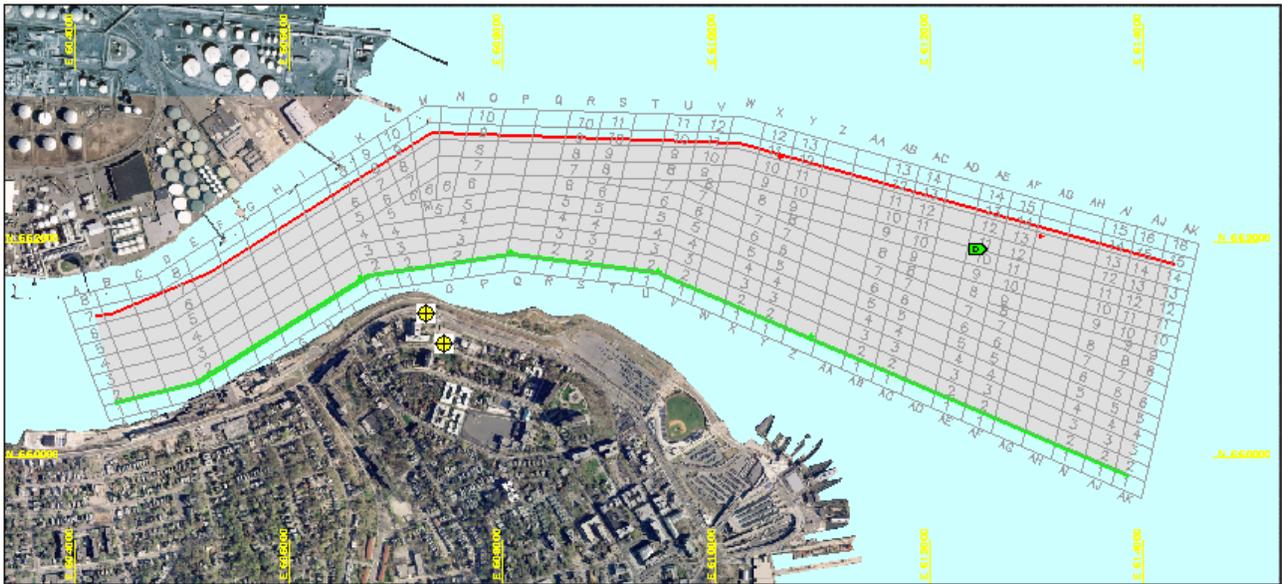
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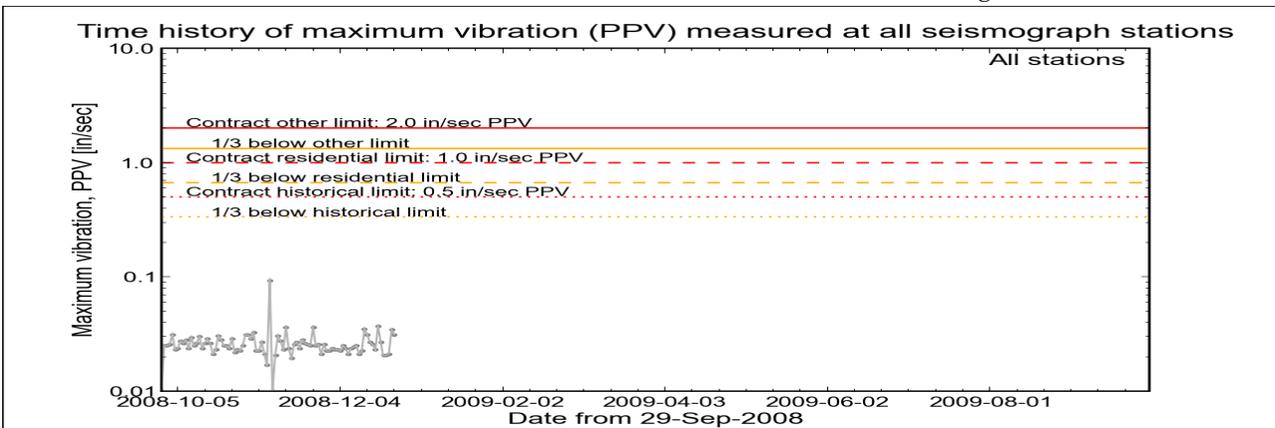
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Latest Event Summary

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Date and time of last reading: Wed 24-Dec-2008 00:15:17



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Wed 24-Dec-2008	00:15:17	0.0312	350 Richmond Terrace
Ambient	Tue 23-Dec-2008	14:16:34	0.0344	St. Peters Church
Ambient	Mon 22-Dec-2008	13:46:34	0.0212	350 Richmond Terrace
Ambient	Sun 21-Dec-2008	16:18:35	0.0206	350 Richmond Terrace
Ambient	Sat 20-Dec-2008	17:46:32	0.0206	350 Richmond Terrace
Ambient	Fri 19-Dec-2008	15:01:31	0.0269	350 Richmond Terrace



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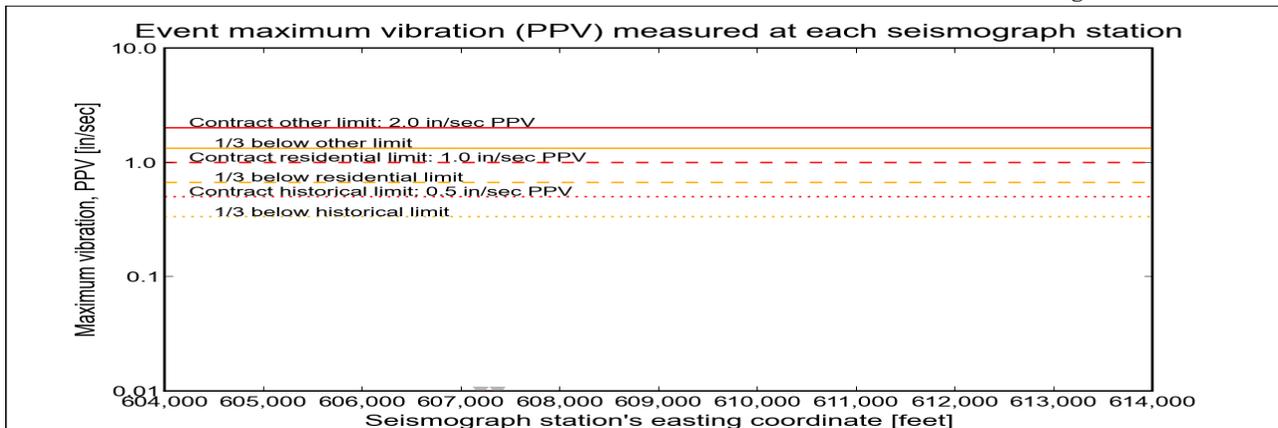
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Date of reading: Wed 24-Dec-2008



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The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Wed 24-Dec-2008	00:15:17	0.00437	Ambient
St. Peters Church - e4s001	Wed 24-Dec-2008	01:46:54	0.00375	Ambient



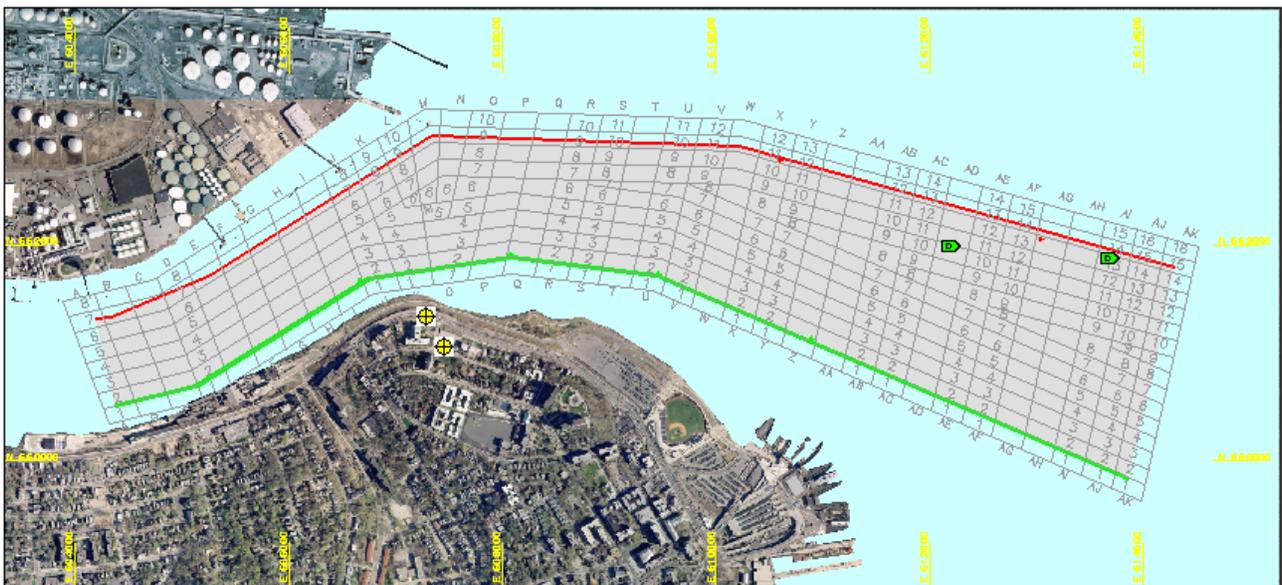
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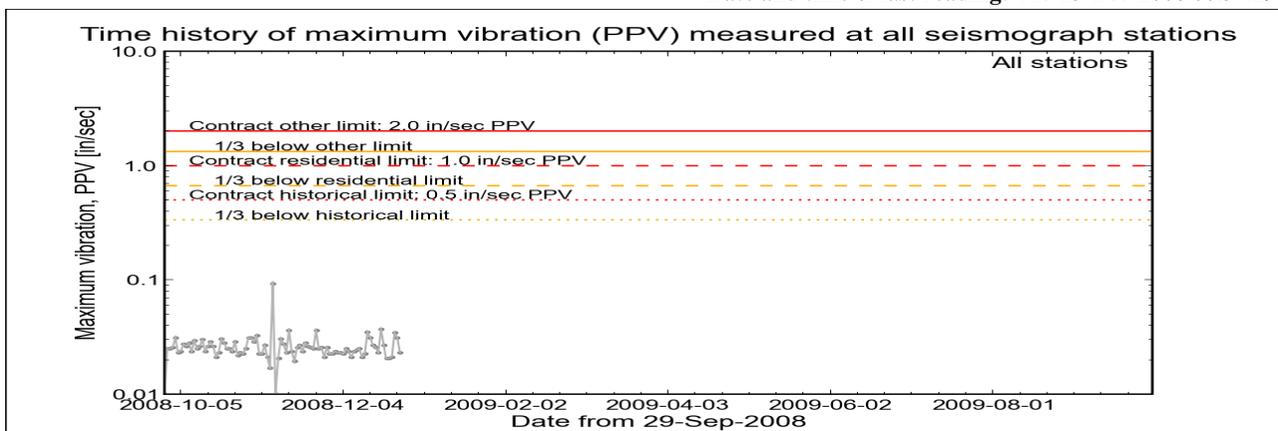
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Date and time of last reading: Thu 25-Dec-2008 00:31:29



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Thu 25-Dec-2008	00:31:29	0.0231	350 Richmond Terrace
Ambient	Wed 24-Dec-2008	00:15:17	0.0312	350 Richmond Terrace
Ambient	Tue 23-Dec-2008	14:16:34	0.0344	St. Peters Church
Ambient	Mon 22-Dec-2008	13:46:34	0.0212	350 Richmond Terrace
Ambient	Sun 21-Dec-2008	16:18:35	0.0206	350 Richmond Terrace
Ambient	Sat 20-Dec-2008	17:46:32	0.0206	350 Richmond Terrace



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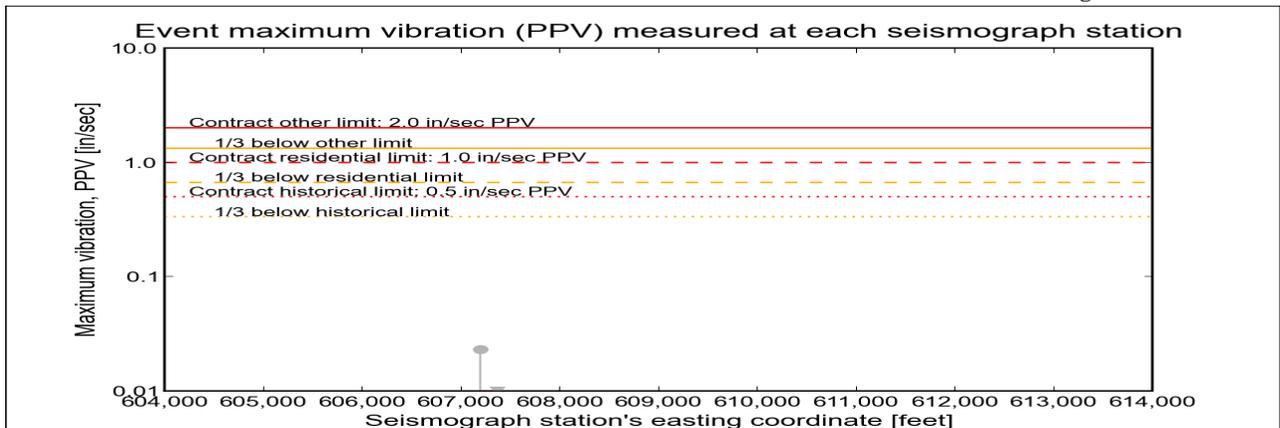
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Date of reading: Thu 25-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Thu 25-Dec-2008	00:31:29	0.0231	Ambient
St. Peters Church - e4s001	Thu 25-Dec-2008	16:46:35	0.00375	Ambient



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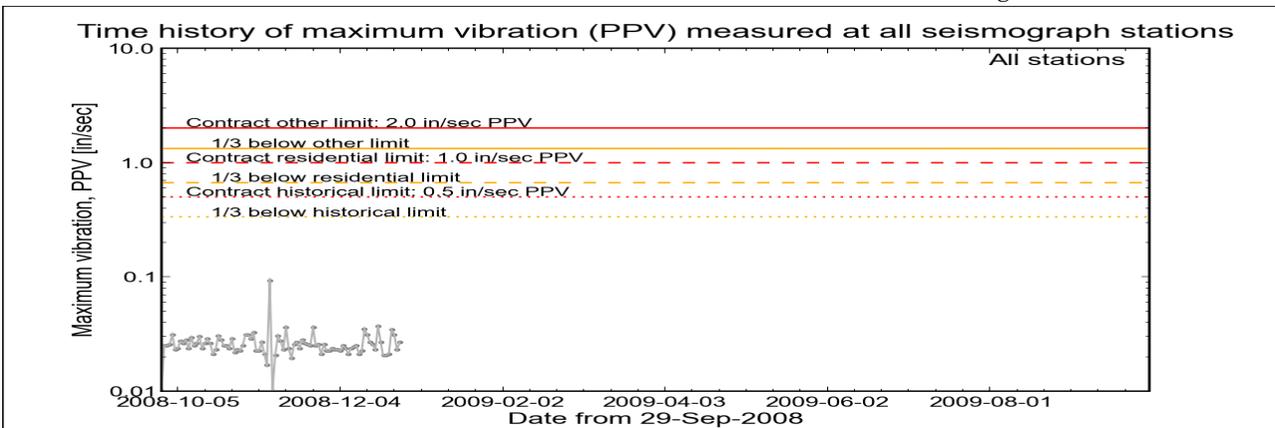
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Date and time of last reading: Fri 26-Dec-2008 22:31:34



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Fri 26-Dec-2008	22:31:34	0.0269	350 Richmond Terrace
Ambient	Thu 25-Dec-2008	00:31:29	0.0231	350 Richmond Terrace
Ambient	Wed 24-Dec-2008	00:15:17	0.0312	350 Richmond Terrace
Ambient	Tue 23-Dec-2008	14:16:34	0.0344	St. Peters Church
Ambient	Mon 22-Dec-2008	13:46:34	0.0212	350 Richmond Terrace
Ambient	Sun 21-Dec-2008	16:18:35	0.0206	350 Richmond Terrace



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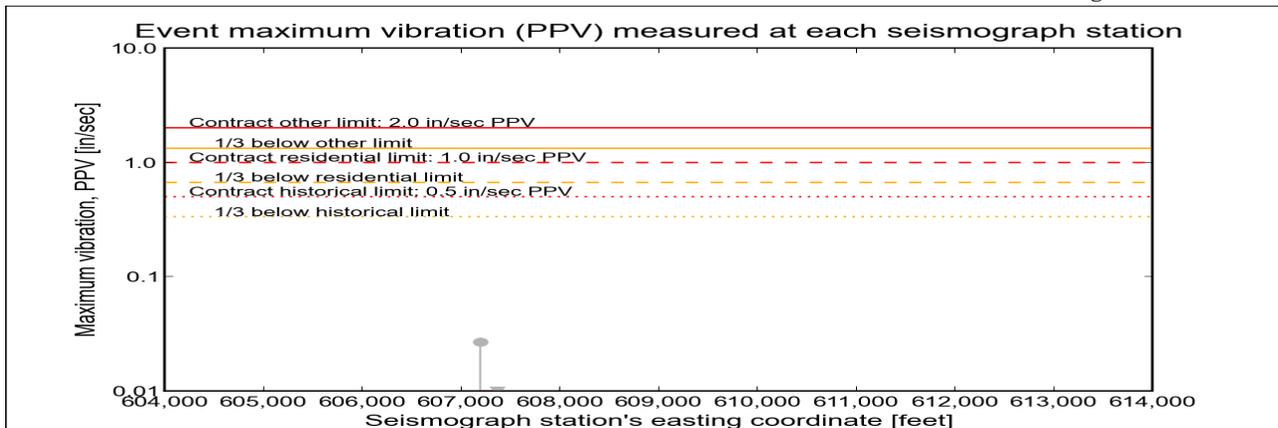
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Date of reading: Fri 26-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Fri 26-Dec-2008	22:31:34	0.0269	Ambient
St. Peters Church - e4s001	Fri 26-Dec-2008	04:31:34	0.00437	Ambient



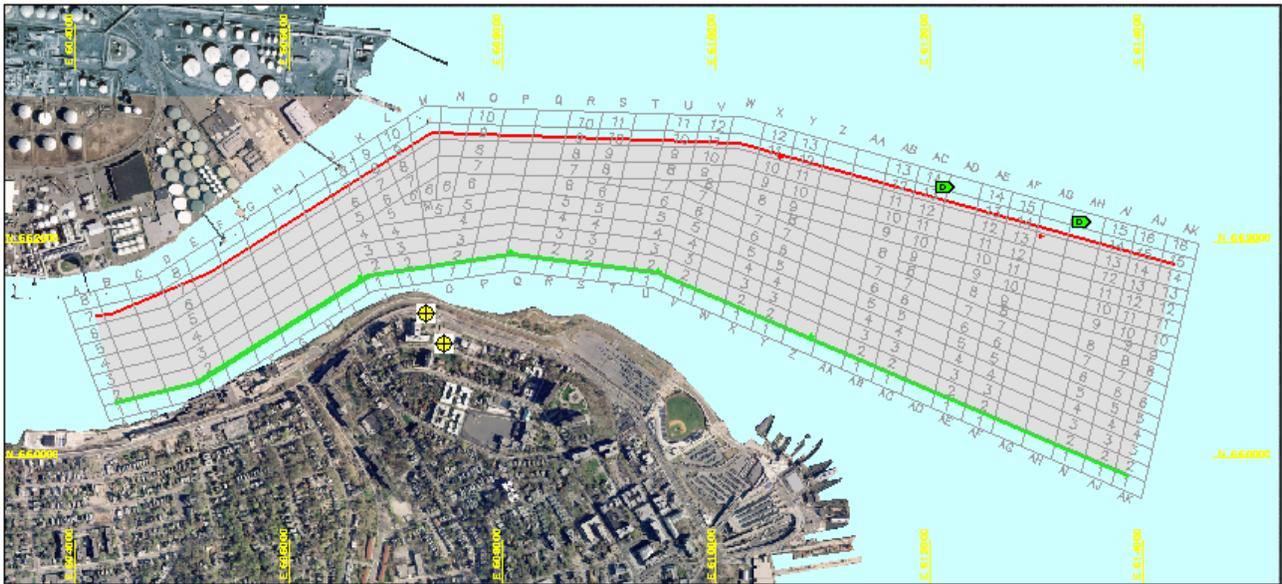
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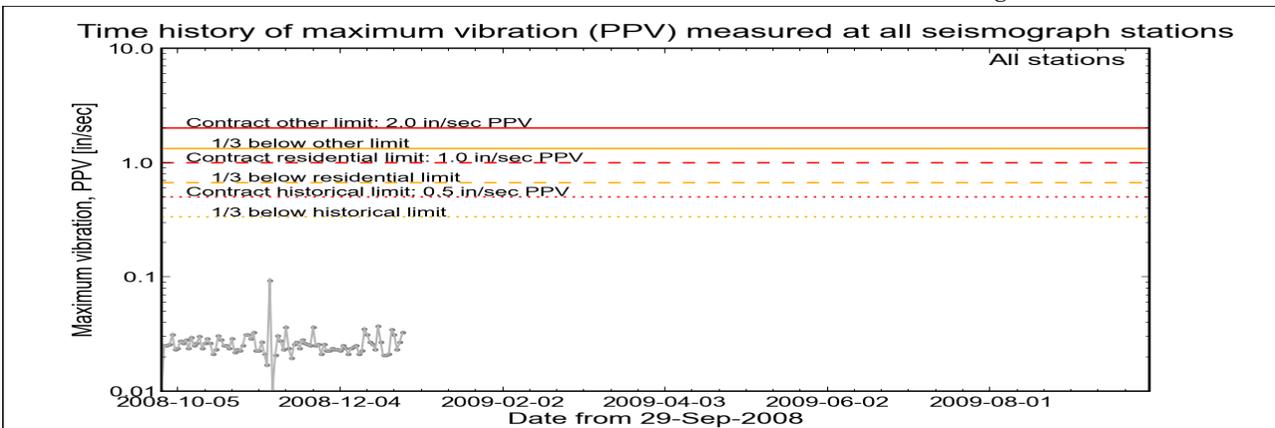
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Date and time of last reading: Sat 27-Dec-2008 14:01:32



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sat 27-Dec-2008	14:01:32	0.0325	350 Richmond Terrace
Ambient	Fri 26-Dec-2008	22:31:34	0.0269	350 Richmond Terrace
Ambient	Thu 25-Dec-2008	00:31:29	0.0231	350 Richmond Terrace
Ambient	Wed 24-Dec-2008	00:15:17	0.0312	350 Richmond Terrace
Ambient	Tue 23-Dec-2008	14:16:34	0.0344	St. Peters Church
Ambient	Mon 22-Dec-2008	13:46:34	0.0212	350 Richmond Terrace



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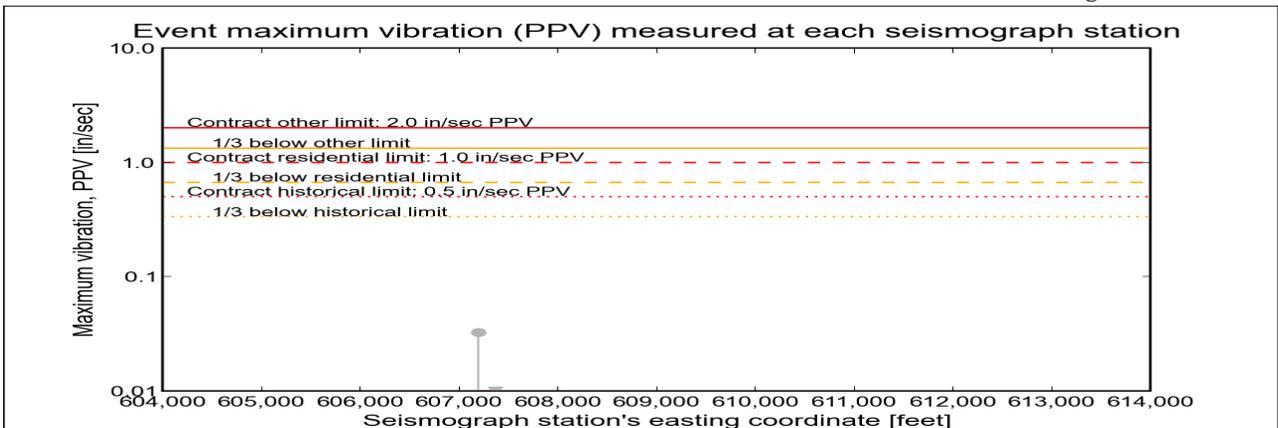
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Date of reading: Sat 27-Dec-2008



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The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Sat 27-Dec-2008	14:01:32	0.0325	Ambient
St. Peters Church - e4s001	Sat 27-Dec-2008	20:01:34	0.0075	Ambient



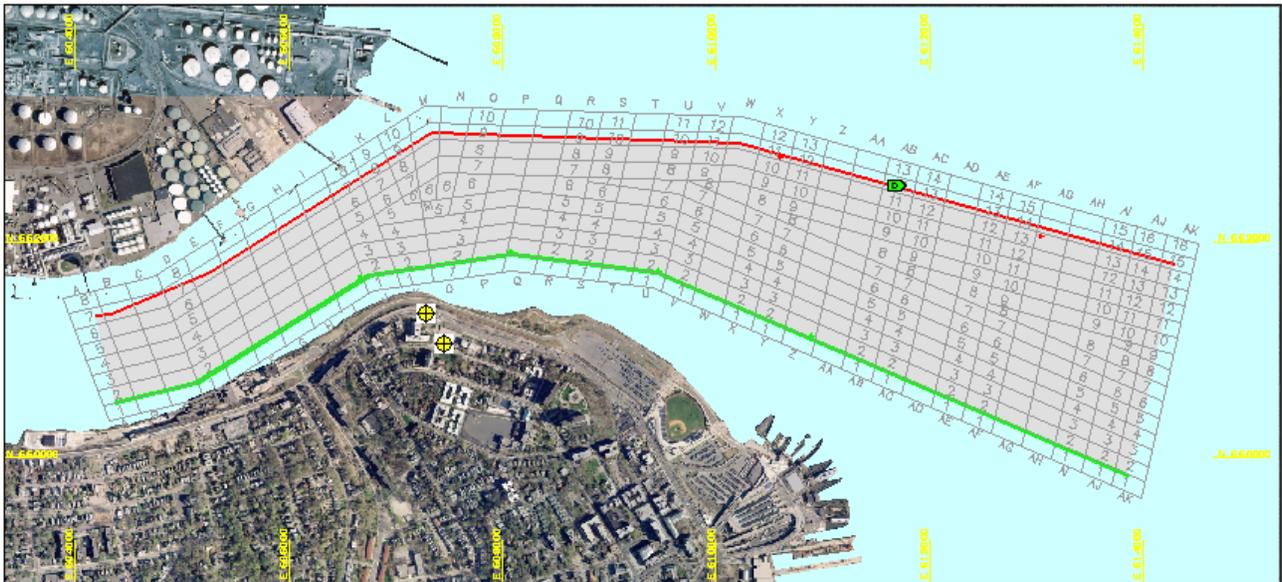
Kill Van Kull Blast Vibration Summary

This site summarizes the measured ground vibrations in St. George, Staten Island, from rock blasting in the Kill Van Kull and other possible sources. The site is updated daily. The data are intended for the sole use of the US Army Corps of Engineers - New York District, for managing and monitoring the performance of NYNJ Harbor Deepening Project Contract S-KVK-1 starting 29 September 2008.

This page represents the most recent observations.

The S-KVK-1 contract area is mapped below in solid gray. The navigation grid is superimposed. The dredge locations are marked by a green symbol. The drilling and blasting barge is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

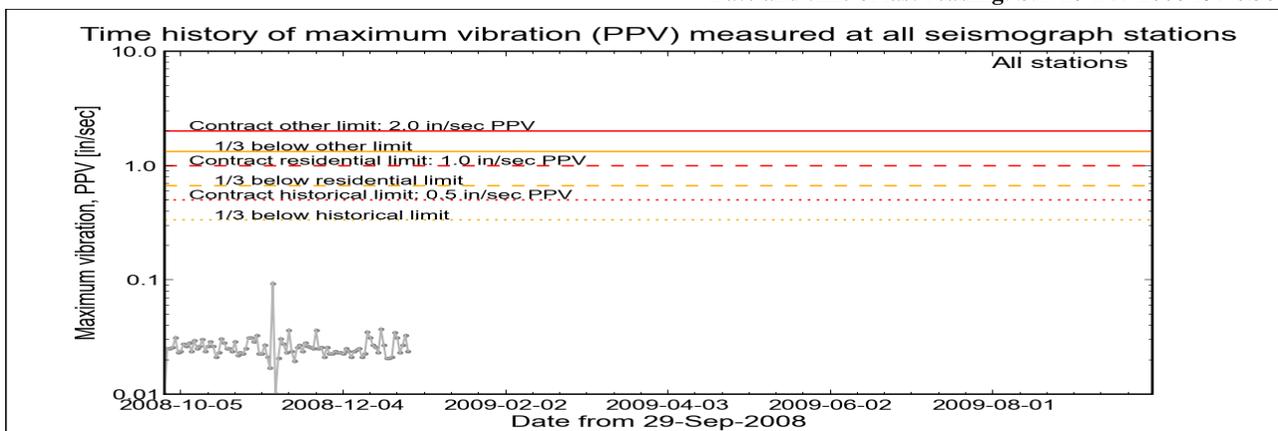
Click station for station information or click channel for event summary.



Latest Event Summary

The graph below is a plot of the maximum vibration recorded by any and all of the numerous seismograph stations during the current observation event (ambient or blast). The horizontal axis gives the date from the start of the project on 29 September 2008. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). The red curves show the project's contract limits; the orange curves show one-third (1/3) below these contract limits. (*The light gray curve is ambient-vibration level. The black curve is blast-vibration level. The dark gray curve is predicted blast-vibration level.*)

Date and time of last reading: Sun 28-Dec-2008 19:46:30



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sun 28-Dec-2008	19:46:30	0.0237	350 Richmond Terrace
Ambient	Sat 27-Dec-2008	14:01:32	0.0325	350 Richmond Terrace
Ambient	Fri 26-Dec-2008	22:31:34	0.0269	350 Richmond Terrace
Ambient	Thu 25-Dec-2008	00:31:29	0.0231	350 Richmond Terrace
Ambient	Wed 24-Dec-2008	00:15:17	0.0312	350 Richmond Terrace
Ambient	Tue 23-Dec-2008	14:16:34	0.0344	St. Peters Church



Kill Van Kull Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

The S-KVK-1 contract area is mapped below in solid blue with a top-of-rock map. The dredge locations are marked by a green symbol. The drilling and blasting barge location is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

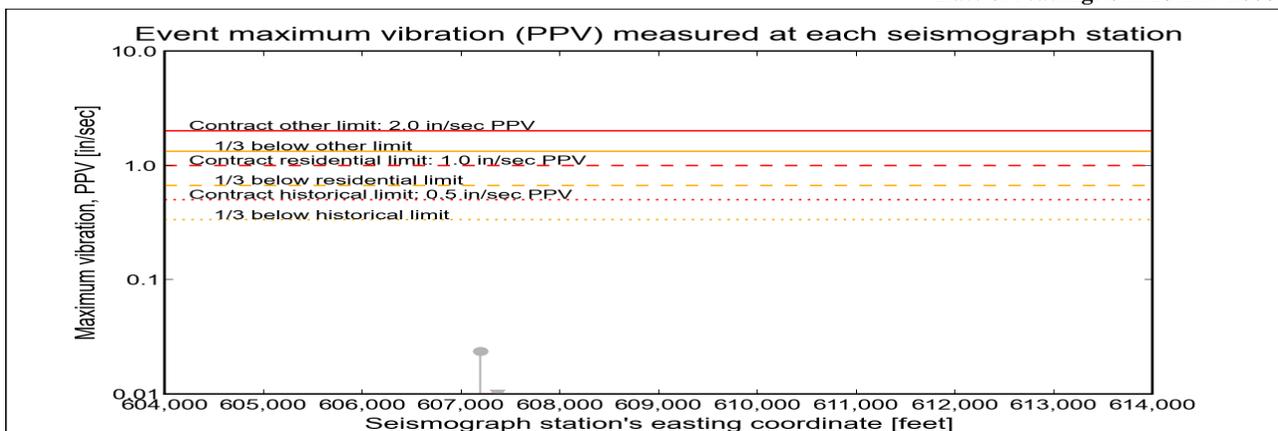
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Sun 28-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Sun 28-Dec-2008	19:46:30	0.0237	Ambient
St. Peters Church - e4s001	Sun 28-Dec-2008	11:16:33	0.00375	Ambient