



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 29 – January 4, 2009

The following file displays the results from the USACE-NYD real-time website for the week of Monday, December 29, through Sunday, January 4, 2009.

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 29  
December 30  
December 31  
January 1  
January 2  
January 3  
January 4

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 0.0320 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 0.0160 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.



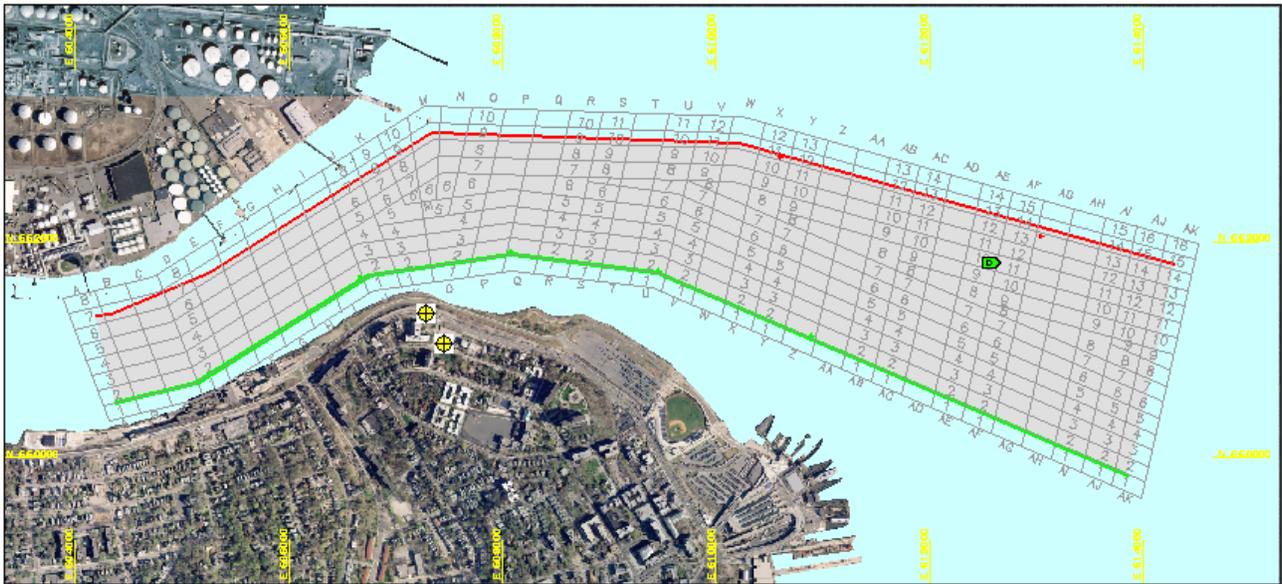
## Kill Van Kull Blast Vibration Summary

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.

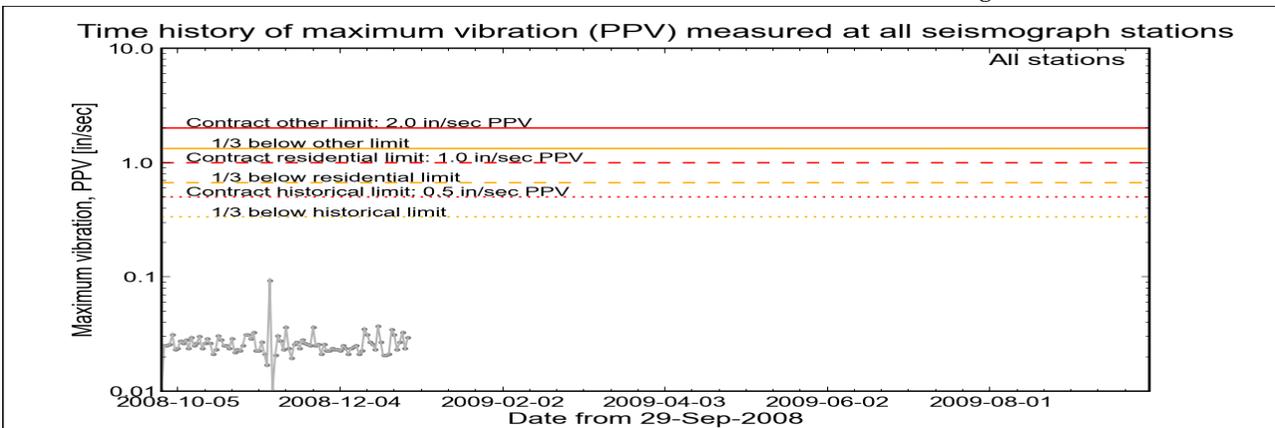
*Click station for station information or click channel for event summary.*



### 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 29-Dec-2008 16:47:37



*(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
<a href="#">Ambient</a>	<a href="#">Mon 29-Dec-2008</a>	16:47:37	0.0294	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Sun 28-Dec-2008</a>	19:46:30	0.0237	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Sat 27-Dec-2008</a>	14:01:32	0.0325	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Fri 26-Dec-2008</a>	22:31:34	0.0269	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Thu 25-Dec-2008</a>	00:31:29	0.0231	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Wed 24-Dec-2008</a>	00:15:17	0.0312	<a href="#">350 Richmond Terrace</a>



## 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.

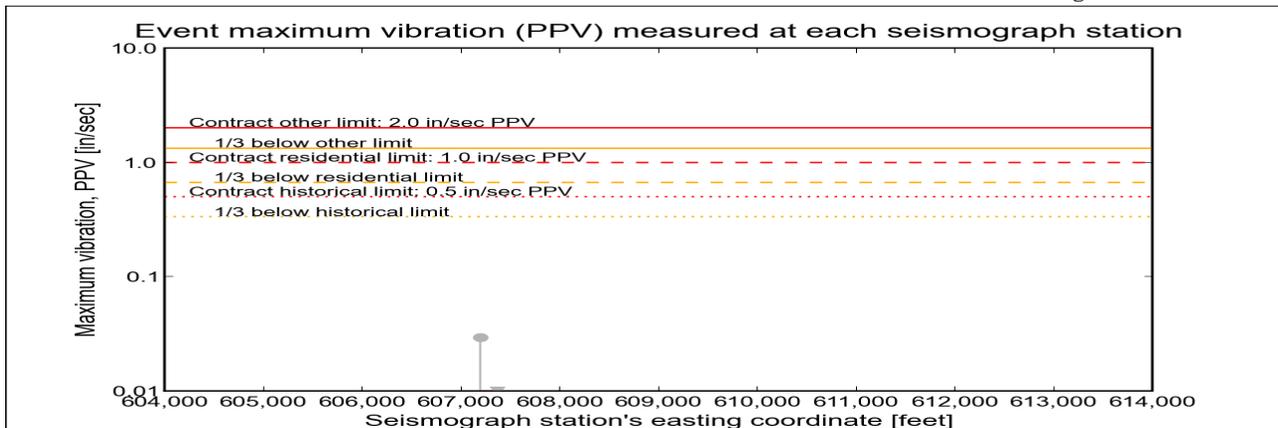
*Click station for more information about the station.*



### 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 29-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
<a href="#">350 Richmond Terrace - e4s002</a>	Mon 29-Dec-2008	16:47:37	0.0294	Ambient
<a href="#">St. Peters Church - e4s001</a>	Mon 29-Dec-2008	23:46:34	0.00562	Ambient



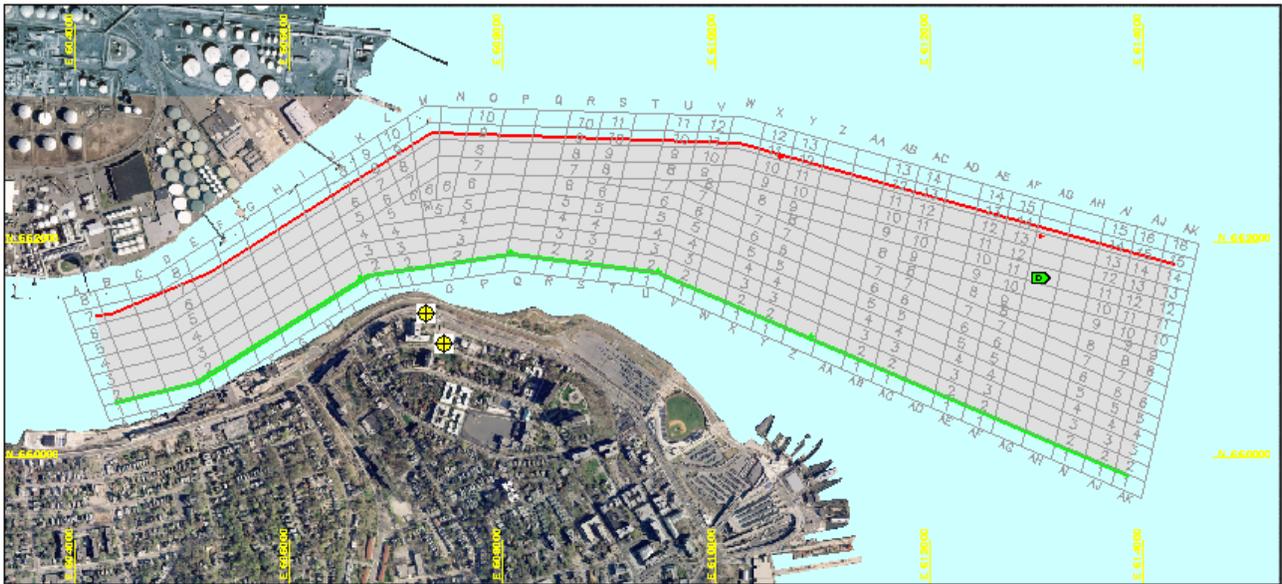
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This page represents the most recent observations.

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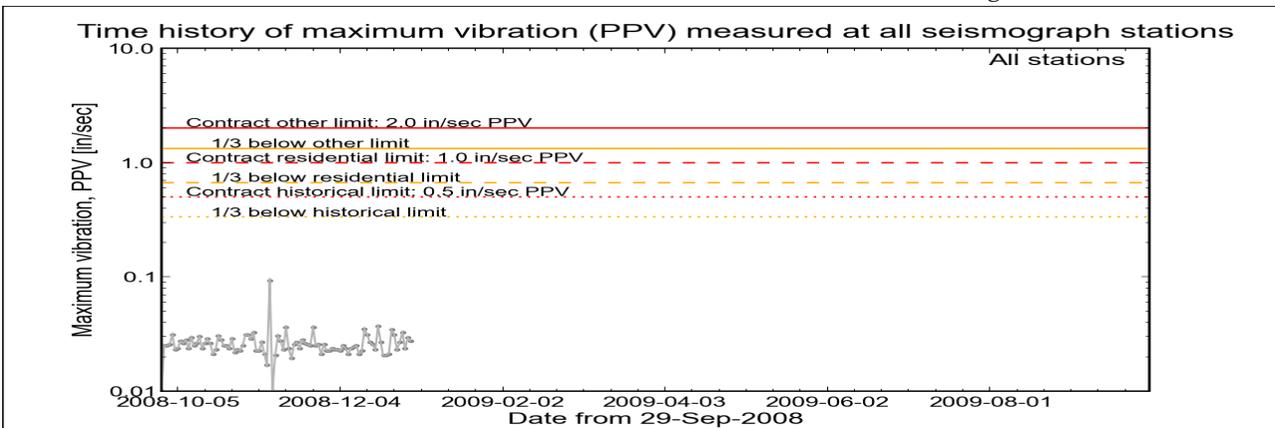
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**Date and time of last reading:** Tue 30-Dec-2008 19:16:33



*(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
<a href="#">Ambient</a>	<a href="#">Tue 30-Dec-2008</a>	19:16:33	0.0275	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Mon 29-Dec-2008</a>	16:47:37	0.0294	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Sun 28-Dec-2008</a>	19:46:30	0.0237	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Sat 27-Dec-2008</a>	14:01:32	0.0325	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Fri 26-Dec-2008</a>	22:31:34	0.0269	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Thu 25-Dec-2008</a>	00:31:29	0.0231	<a href="#">350 Richmond Terrace</a>



## 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.

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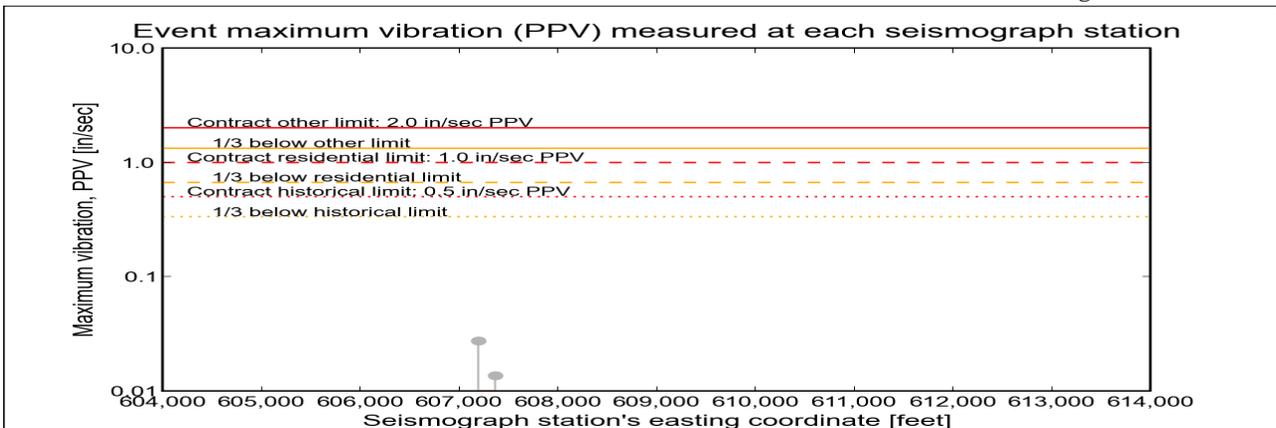
*Click station for more information about the station.*



### 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 30-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
<a href="#">350 Richmond Terrace - e4s002</a>	Tue 30-Dec-2008	19:16:33	0.0275	Ambient
<a href="#">St. Peters Church - e4s001</a>	Tue 30-Dec-2008	03:16:34	0.0137	Ambient



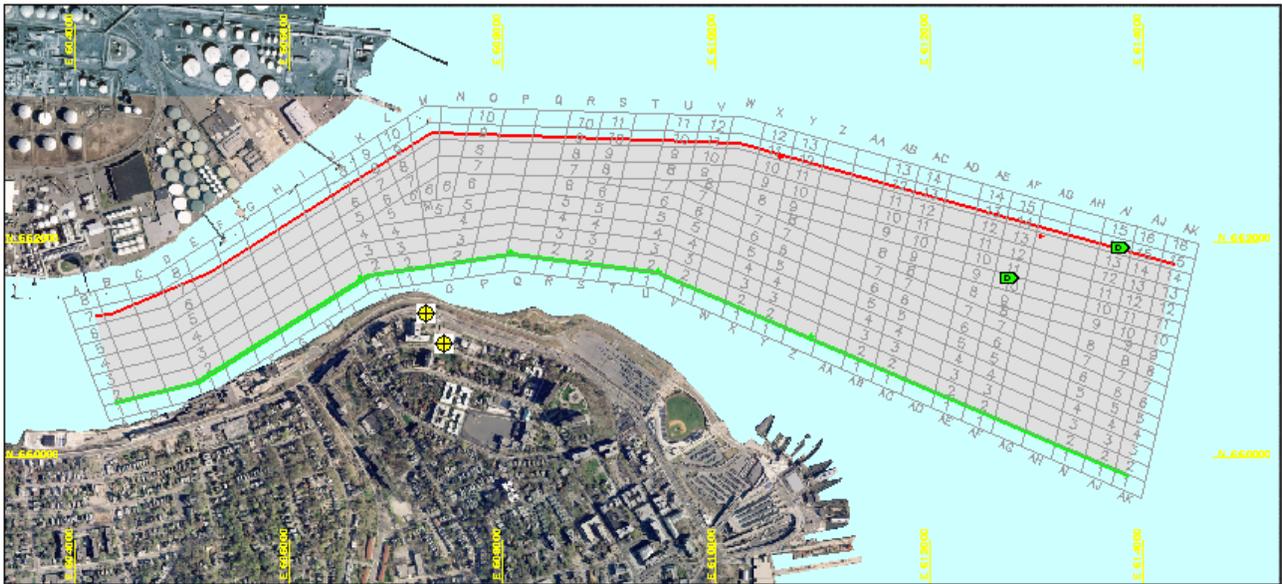
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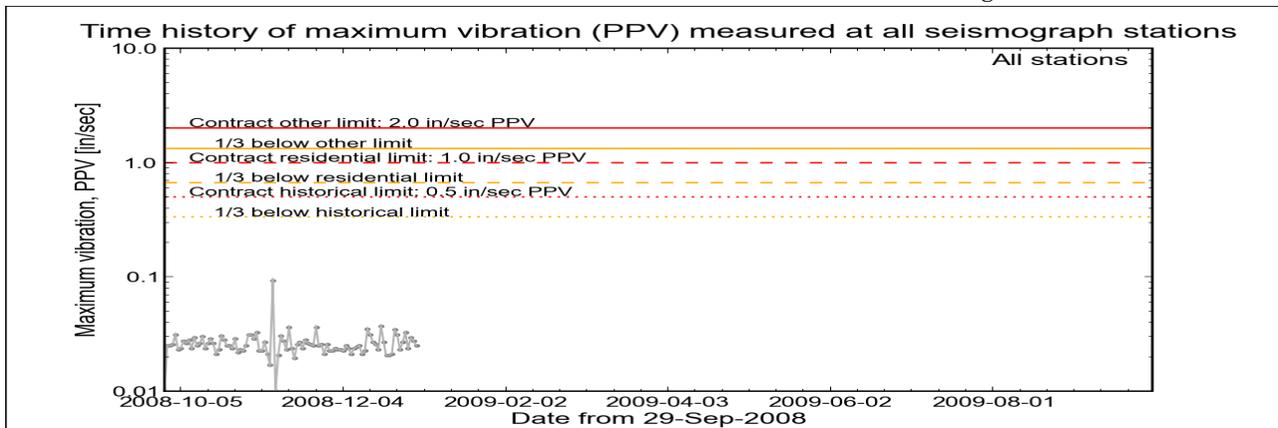
*Click station for station information or click channel for event summary.*



### Latest Event Summary

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**Date and time of last reading:** Wed 31-Dec-2008 11:17:40



(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
<a href="#">Ambient</a>	<a href="#">Wed 31-Dec-2008</a>	11:17:40	0.0250	350 Richmond Terrace
<a href="#">Ambient</a>	<a href="#">Tue 30-Dec-2008</a>	19:16:33	0.0275	350 Richmond Terrace
<a href="#">Ambient</a>	<a href="#">Mon 29-Dec-2008</a>	16:47:37	0.0294	350 Richmond Terrace
<a href="#">Ambient</a>	<a href="#">Sun 28-Dec-2008</a>	19:46:30	0.0237	350 Richmond Terrace
<a href="#">Ambient</a>	<a href="#">Sat 27-Dec-2008</a>	14:01:32	0.0325	350 Richmond Terrace
<a href="#">Ambient</a>	<a href="#">Fri 26-Dec-2008</a>	22:31:34	0.0269	350 Richmond Terrace



## Kill Van Kull Blasting Event Summary

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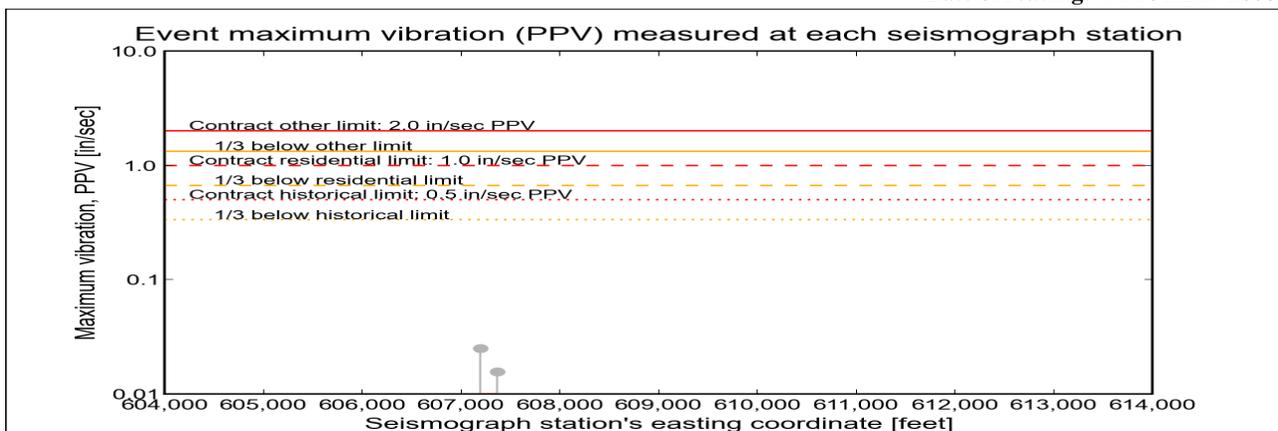
*Click station for more information about the station.*



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Date of reading: Wed 31-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
<a href="#">350 Richmond Terrace - e4s002</a>	Wed 31-Dec-2008	11:17:40	0.025	Ambient
<a href="#">St. Peters Church - e4s001</a>	Wed 31-Dec-2008	21:17:40	0.0156	Ambient



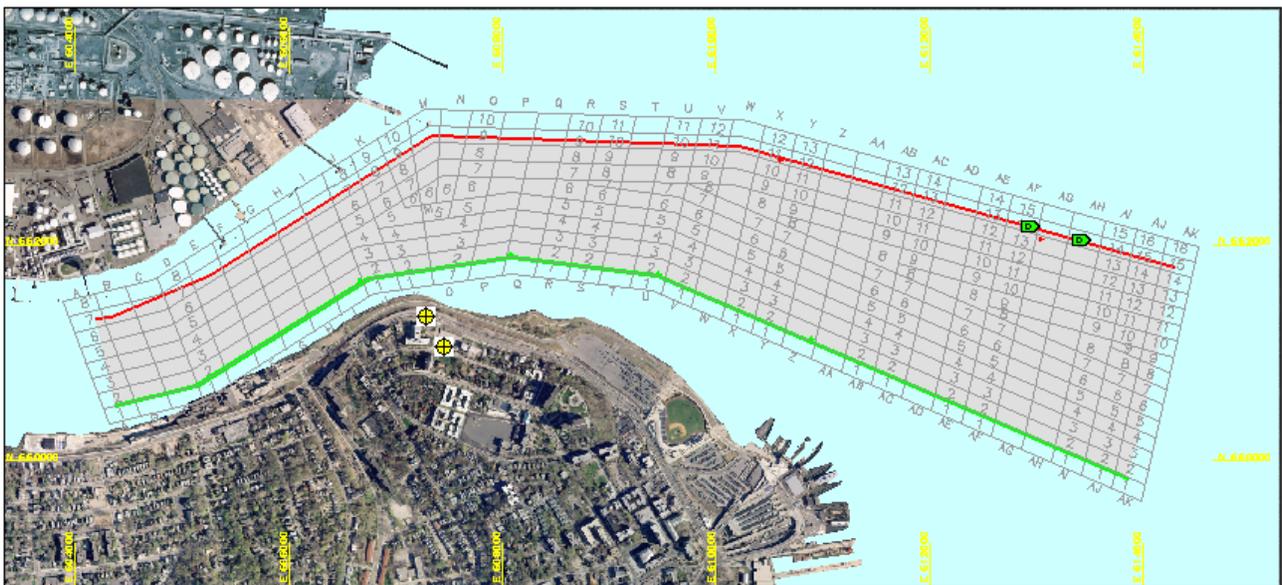
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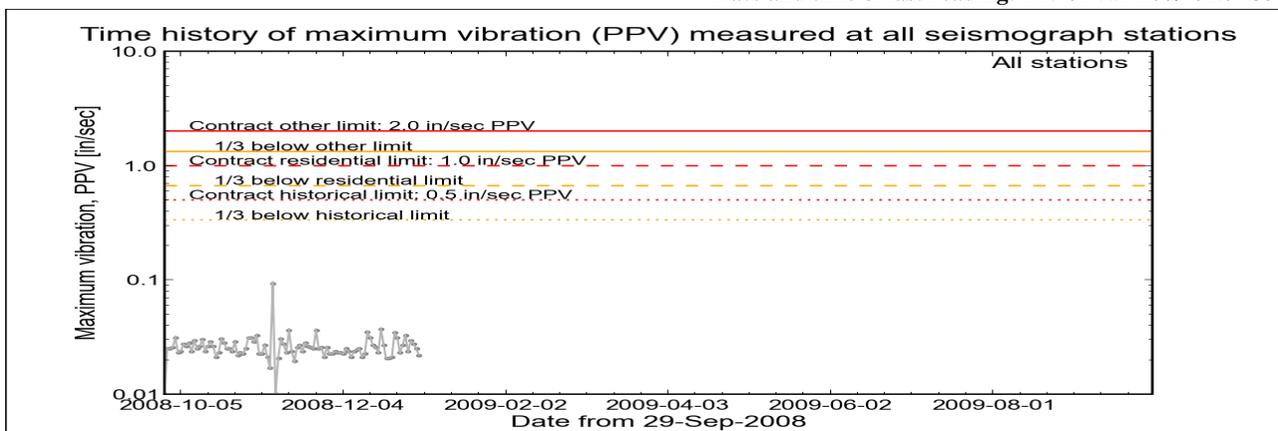
Click station for station information or click channel for event summary.



### Latest Event Summary

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Date and time of last reading: Thu 01-Jan-2009 02:01:35



(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	<a href="#">Thu 01-Jan-2009</a>	02:01:35	0.0219	<a href="#">350 Richmond Terrace</a>
Ambient	<a href="#">Wed 31-Dec-2008</a>	11:17:40	0.0250	<a href="#">350 Richmond Terrace</a>
Ambient	<a href="#">Tue 30-Dec-2008</a>	19:16:33	0.0275	<a href="#">350 Richmond Terrace</a>
Ambient	<a href="#">Mon 29-Dec-2008</a>	16:47:37	0.0294	<a href="#">350 Richmond Terrace</a>
Ambient	<a href="#">Sun 28-Dec-2008</a>	19:46:30	0.0237	<a href="#">350 Richmond Terrace</a>
Ambient	<a href="#">Sat 27-Dec-2008</a>	14:01:32	0.0325	<a href="#">350 Richmond Terrace</a>



## 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.

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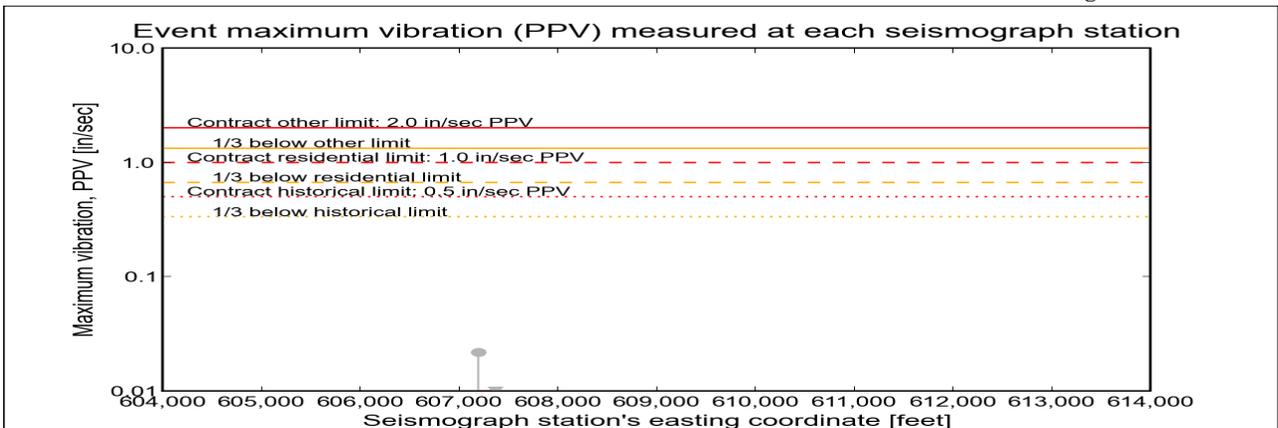
*Click station for more information about the station.*



### 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: Thu 01-Jan-2009



(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
<a href="#">350 Richmond Terrace - e4s002</a>	Thu 01-Jan-2009	02:01:35	0.0219	Ambient
<a href="#">St. Peters Church - e4s001</a>	Thu 01-Jan-2009	15:01:27	0.00437	Ambient



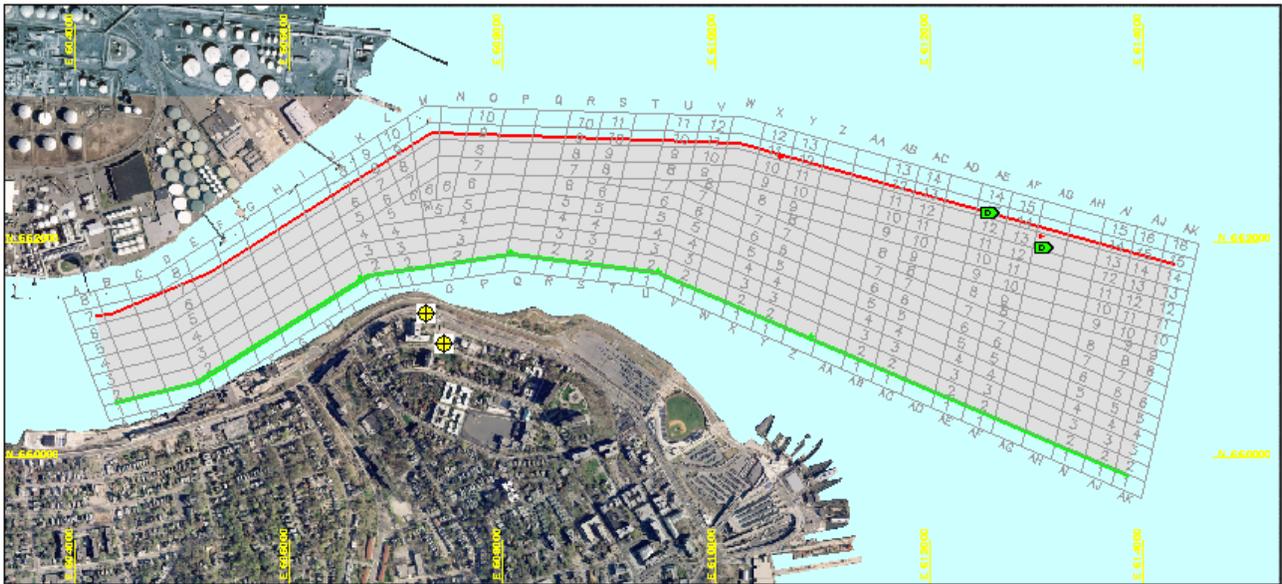
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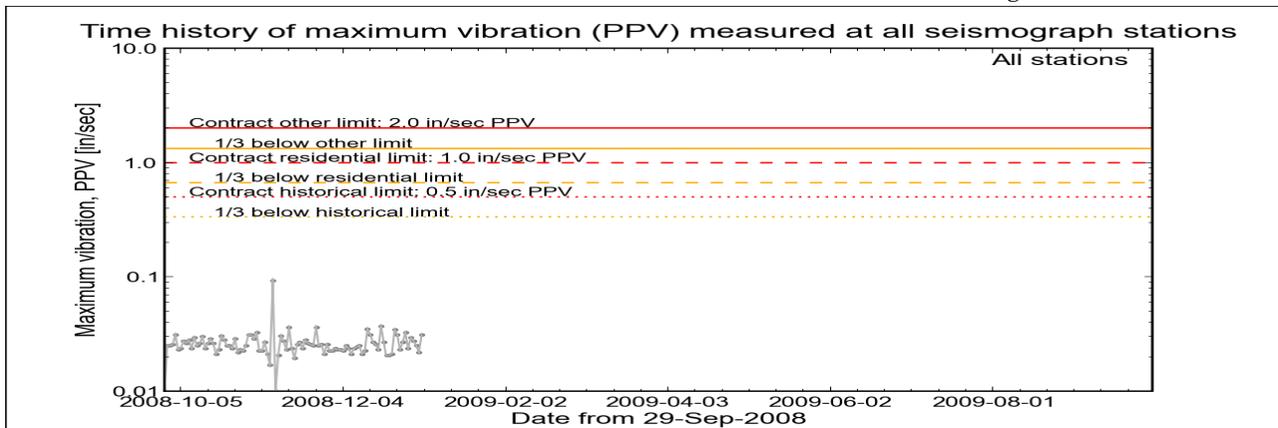
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### Latest Event Summary

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**Date and time of last reading:** Fri 02-Jan-2009 10:46:35



(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
<a href="#">Ambient</a>	<a href="#">Fri 02-Jan-2009</a>	10:46:35	0.0312	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Thu 01-Jan-2009</a>	02:01:35	0.0219	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Wed 31-Dec-2008</a>	11:17:40	0.0250	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Tue 30-Dec-2008</a>	19:16:33	0.0275	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Mon 29-Dec-2008</a>	16:47:37	0.0294	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Sun 28-Dec-2008</a>	19:46:30	0.0237	<a href="#">350 Richmond Terrace</a>



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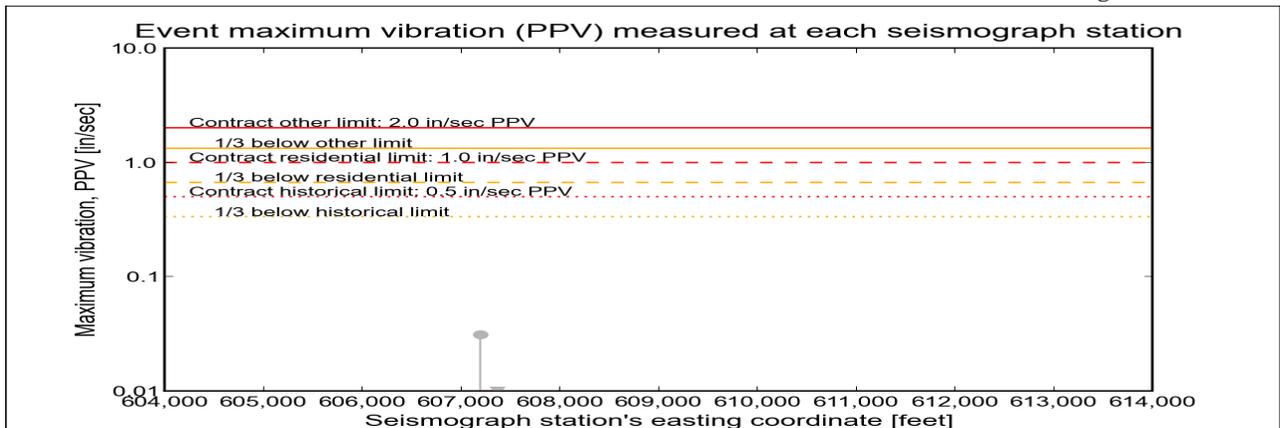
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Date of reading: Fri 02-Jan-2009



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

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Station	Date	Time	Max PPV (in / second)	Vibration Type
<a href="#">350 Richmond Terrace - e4s002</a>	Fri 02-Jan-2009	10:46:35	0.0312	Ambient
<a href="#">St. Peters Church - e4s001</a>	Fri 02-Jan-2009	10:46:47	0.00437	Ambient



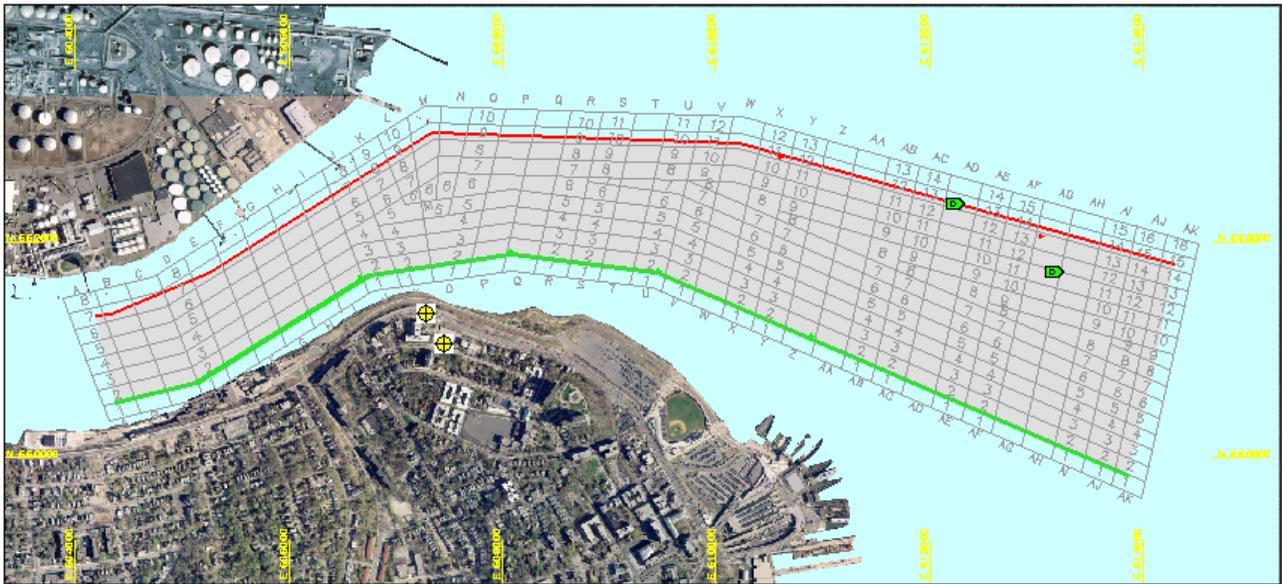
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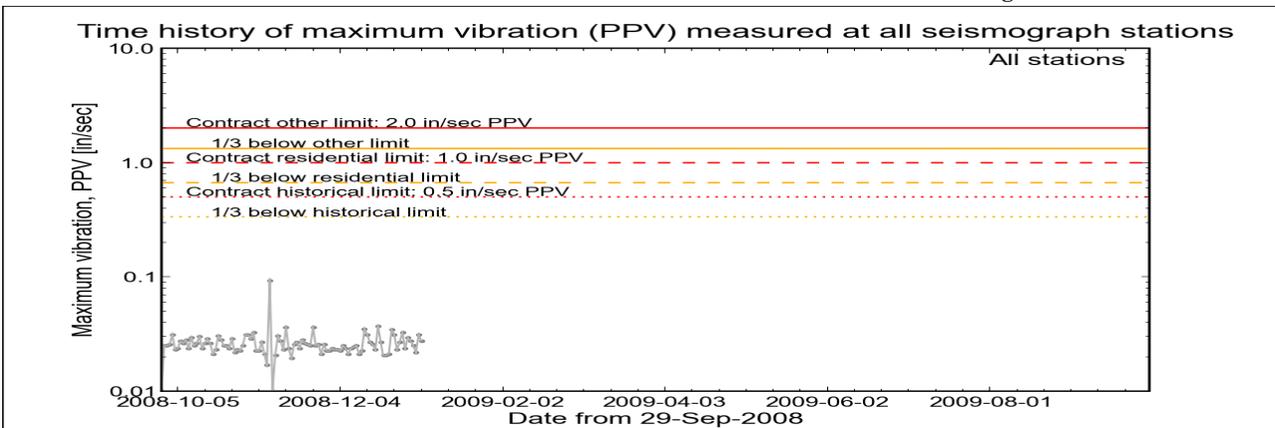
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Date and time of last reading: Sat 03-Jan-2009 19:31:29



(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
<a href="#">Ambient</a>	<a href="#">Sat 03-Jan-2009</a>	19:31:29	0.0275	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Fri 02-Jan-2009</a>	10:46:35	0.0312	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Thu 01-Jan-2009</a>	02:01:35	0.0219	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Wed 31-Dec-2008</a>	11:17:40	0.0250	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Tue 30-Dec-2008</a>	19:16:33	0.0275	<a href="#">350 Richmond Terrace</a>
<a href="#">Ambient</a>	<a href="#">Mon 29-Dec-2008</a>	16:47:37	0.0294	<a href="#">350 Richmond Terrace</a>



## 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.

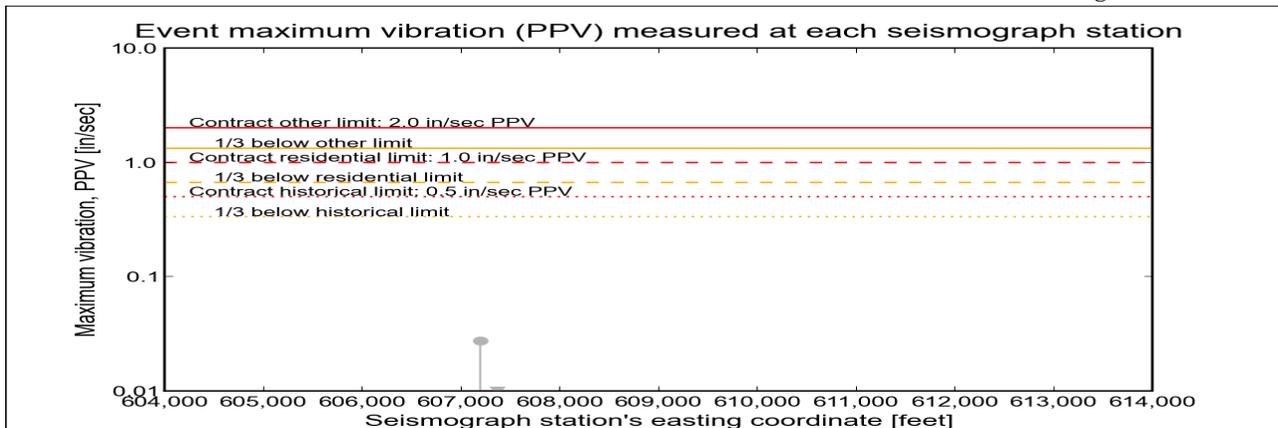
*Click station for more information about the station.*



### 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: Sat 03-Jan-2009



(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
<a href="#">350 Richmond Terrace - e4s002</a>	<a href="#">Sat 03-Jan-2009</a>	19:31:29	0.0275	<a href="#">Ambient</a>
<a href="#">St. Peters Church - e4s001</a>	<a href="#">Sat 03-Jan-2009</a>	10:01:35	0.005	<a href="#">Ambient</a>



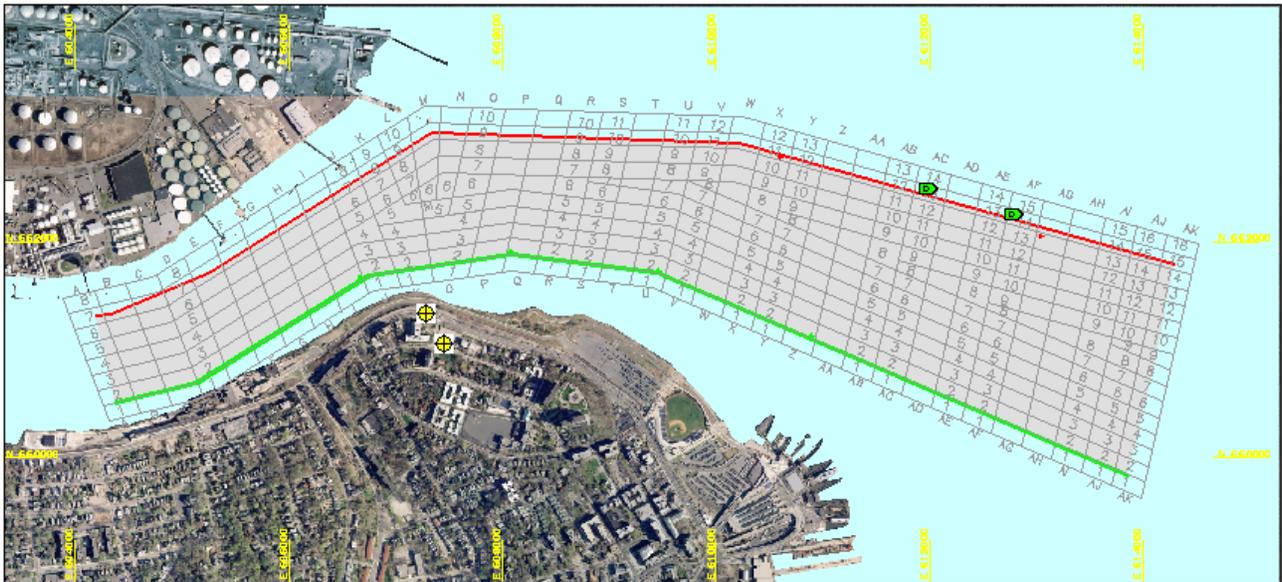
## Kill Van Kull Blast Vibration Summary

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.

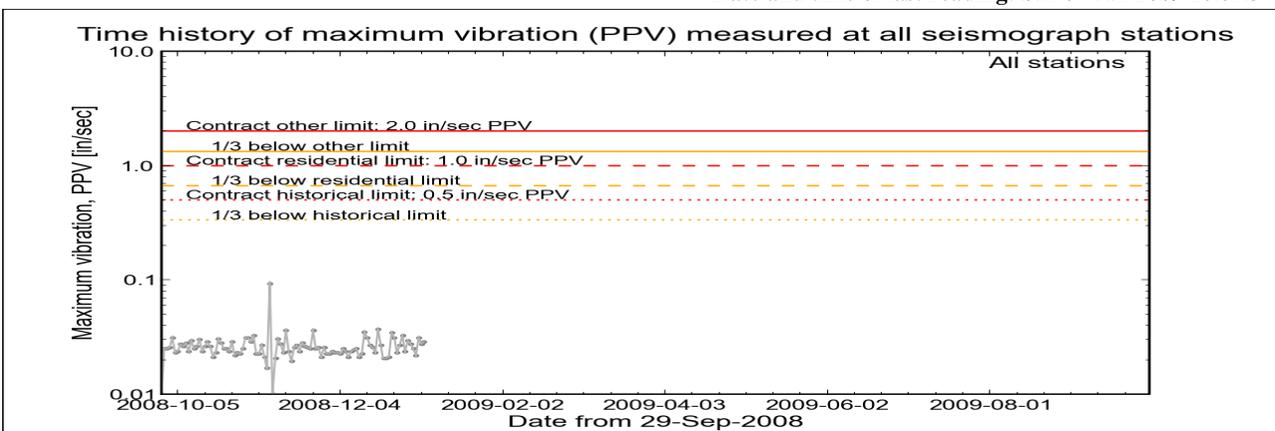
*Click station for station information or click channel for event summary.*



### 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 04-Jan-2009 20:01:34



(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
<a href="#">Ambient</a>	<a href="#">Sun 04-Jan-2009</a>	20:01:34	0.0287	350 Richmond Terrace
<a href="#">Ambient</a>	<a href="#">Sat 03-Jan-2009</a>	19:31:29	0.0275	350 Richmond Terrace
<a href="#">Ambient</a>	<a href="#">Fri 02-Jan-2009</a>	10:46:35	0.0312	350 Richmond Terrace
<a href="#">Ambient</a>	<a href="#">Thu 01-Jan-2009</a>	02:01:35	0.0219	350 Richmond Terrace
<a href="#">Ambient</a>	<a href="#">Wed 31-Dec-2008</a>	11:17:40	0.0250	350 Richmond Terrace
<a href="#">Ambient</a>	<a href="#">Tue 30-Dec-2008</a>	19:16:33	0.0275	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.

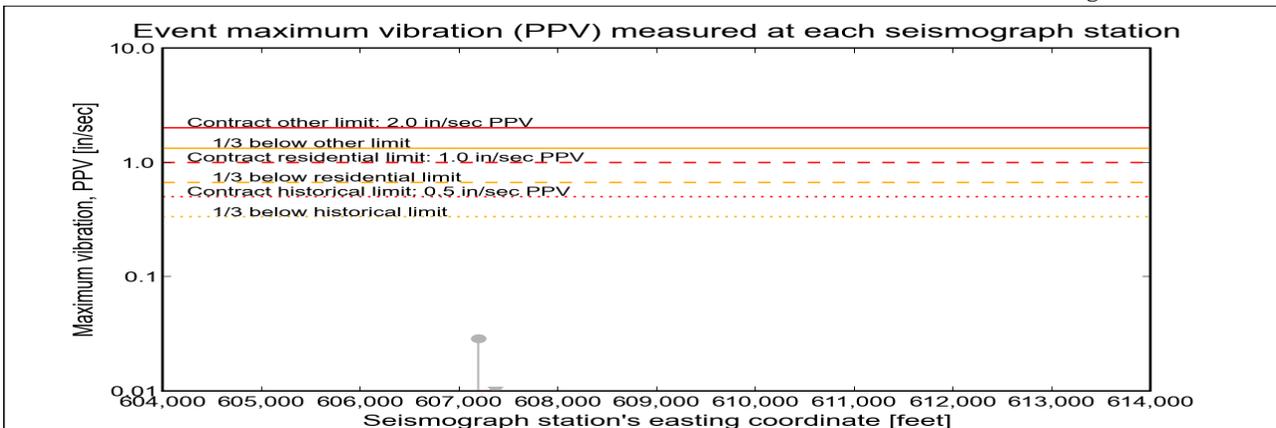
*Click station for more information about the station.*



### 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: Sun 04-Jan-2009



(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
<a href="#">350 Richmond Terrace - e4s002</a>	Sun 04-Jan-2009	20:01:34	0.0287	Ambient
<a href="#">St. Peters Church - e4s001</a>	Sun 04-Jan-2009	01:01:36	0.00375	Ambient