



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 October 21 – October 27, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, October 21, through Sunday, October 27, 2013.

There were 7 blasts this week in the S-AK-3 project area.

We recorded vibrations in S-AK-3 project area. The maximum vibration recorded was 0.162 in/s recorded at Elizabeth Marina on October 23. Table 1 summarizes the blasts this week.

Page 2 summarizes dredge locations for this week. The map shows the week's last dredge locations by colored symbols, connected by colored lines to the week's previous locations marked by gray symbols. Drillboat Apache and operated in S-AK-3 all week.

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

October 21  
October 22  
October 23  
October 24  
October 25  
October 26  
October 27

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

The results for this week show the measurements at the three active stations: New York Container Terminal (NYCT), Elizabethport, and Elizabeth Marina. The station locations are on each page.

Ground vibrations at NYCT were all below 0.040 in/s. Vibrations at Elizabethport were all below 0.020 in/s. Vibrations at Elizabeth Marina were all below 0.170 in/s. All blast vibration measurements are below the contract vibration limits for this site.

**Table 1.** Blast Summary for this week

<b>Blast</b>	<b>Date &amp; Time EST/EDT of blast</b>	<b>Distance from blast to e4s stations (feet)</b>	<b>e4s Max. vibration (in/s)</b>
AK-085	2013-10-21 16:00	0,660 - 1,950	0.119
AK-086	2013-10-22 14:45	0,760 - 2,070	0.107
AK-087	2013-10-23 13:15	0,860 - 2,170	0.162
AK-088	2013-10-24 09:19	0,740 - 1,900	0.101
AK-089	2013-10-25 11:26	1,280 - 2,860	0.0869
AK-090	2013-10-26 09:19	1,430 - 2,970	0.0544
AK-091	2013-10-26 14:25	1,430 - 3,000	0.0737



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## Dredge Position Summary

This page summarizes dredge positions for the week. The Arthur Kill contract area is mapped with a top-of-rock map. The navigation grid is superimposed. The map shows dredge locations by colored symbols, connected by colored lines to the week's past locations marked by gray symbols. The map resets beginning the Monday of each week.

Mousing over a dredge location produces a pop-up text box giving dredge name, date of location, and easting and northing coordinates of the location in the NAD83 New Jersey State Plane coordinate system.

*Click on a station for station information.*



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Dredge Position Summary](#)

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The table below lists the date, name, easting, northing, and notes for the week's dredge positions. The position is the last reported dredge position of the day.

Dredge Location Table

Date	Dredge Name	Easting	Northing	Notes
2013-10-27 Sun	Capt AJ Fournier	587670	657943	
2013-10-27 Sun	Drillboat Apache	579724	660646	
2013-10-26 Sat	Capt AJ Fournier	587670	657943	
2013-10-26 Sat	Drillboat Apache	578009	659073	
2013-10-25 Fri				No Activity
2013-10-24 Thu				No Activity
2013-10-23 Wed	Drillboat Kraken	578758	659476	
2013-10-22 Tue	Capt AJ Fournier	587643	657834	
2013-10-22 Tue	Drillboat Apache	578839	659659	
2013-10-22 Tue	Drillboat Kraken	578844	659571	
2013-10-21 Mon	Drillboat Apache	579005	659769	
2013-10-21 Mon	Drillboat Kraken	578965	659680	



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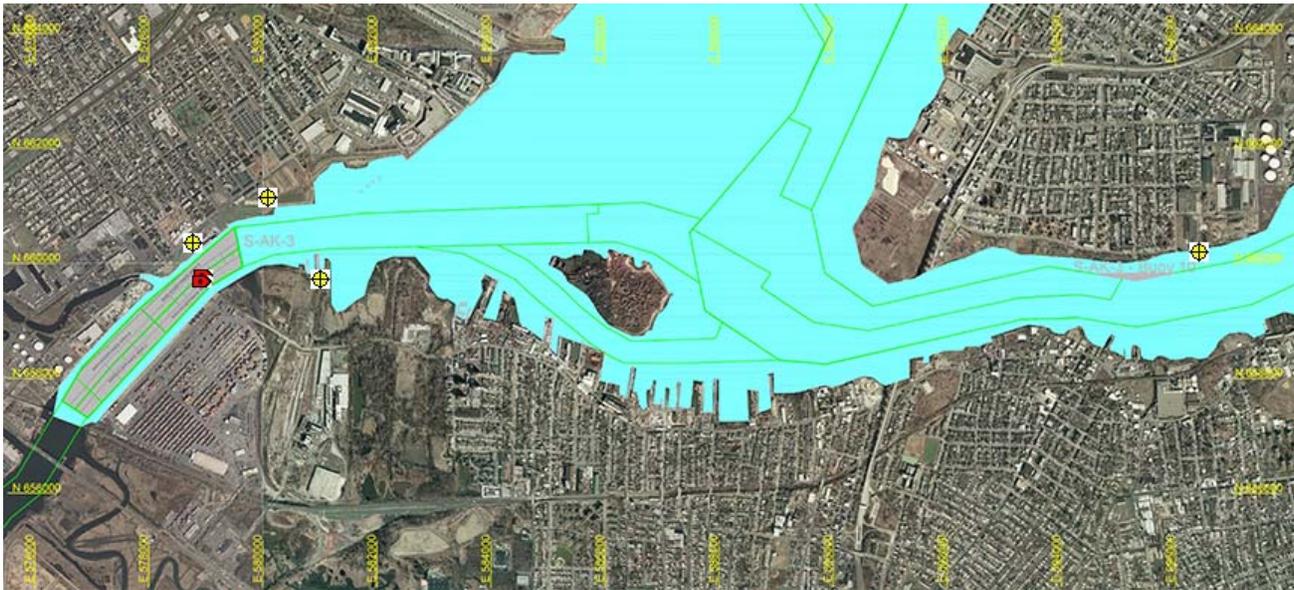
## Arthur Kill Blast Vibration Summary

This site summarizes the measured ground vibrations in northwest Staten Island, from rock blasting in the Arthur Kill 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 in Arthur Kill starting 25 July 2011.

This page represents the most recent observations.

The Arthur Kill contract area is mapped below in light gray. The navigation grid is superimposed. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. 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. (e4sciences stations are circles. CDB stations are triangles.) Selecting a station activates its station page.

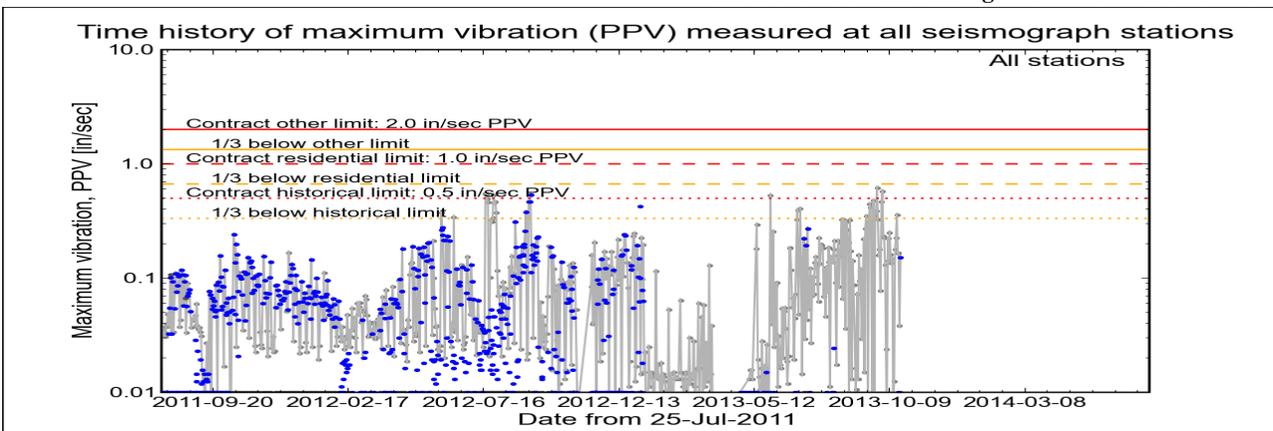
*Click station for station information or click channel for event summary.*



### 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 25 July 2011. 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 blue dots are blast-vibration levels. The dark gray dots are predicted blast-vibration levels.)

**Date and time of last reading: Mon 21-Oct-2013 19:47:34**



(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="#">Blast</a>	<a href="#">Mon 21-Oct-2013</a>	19:47:34	0.1520	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sun 20-Oct-2013</a>	16:03:25	0.0381	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sat 19-Oct-2013</a>	16:17:36	0.1670	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 18-Oct-2013</a>	13:02:35	0.1650	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Thu 17-Oct-2013</a>	13:17:35	0.3560	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Wed 16-Oct-2013</a>	13:47:36	0.2260	<a href="#">Elizabeth Marina</a>



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## Arthur Kill 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 Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. 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. (*e4sciences stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

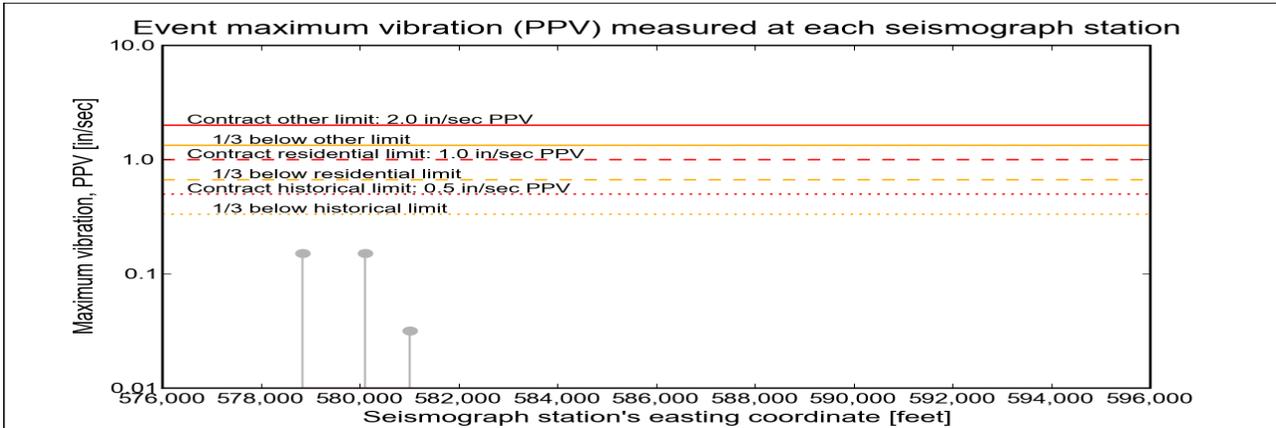
*Click station for more information about the station.*



### 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 21-Oct-2013**



*(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="#">Elizabeth Marina - e4s010</a>	Mon 21-Oct-2013	19:47:34	0.152	Ambient
<a href="#">Elizabeth Port - e4s009</a>	Mon 21-Oct-2013	19:47:34	0.152	Ambient
<a href="#">NYCT - e4s008</a>	Mon 21-Oct-2013	19:53:00	0.0319	Ambient



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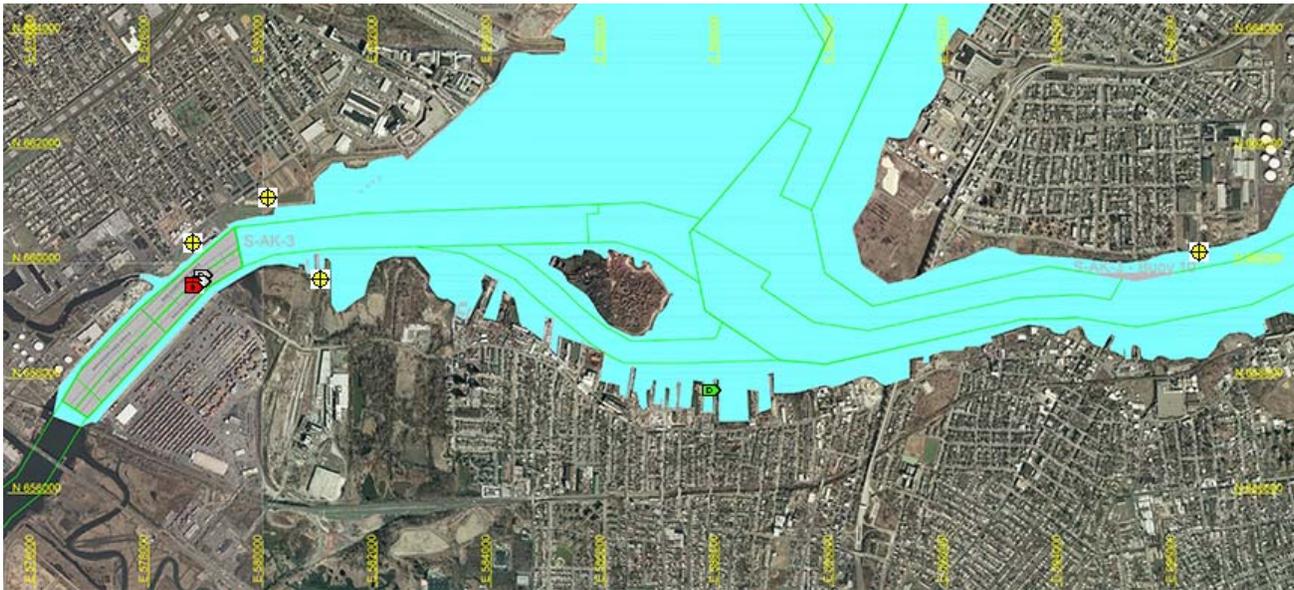
## Arthur Kill Blast Vibration Summary

This site summarizes the measured ground vibrations in northwest Staten Island, from rock blasting in the Arthur Kill 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 in Arthur Kill starting 25 July 2011.

This page represents the most recent observations.

The Arthur Kill contract area is mapped below in light gray. The navigation grid is superimposed. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. 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. (e4sciences stations are circles. CDB stations are triangles.) Selecting a station activates its station page.

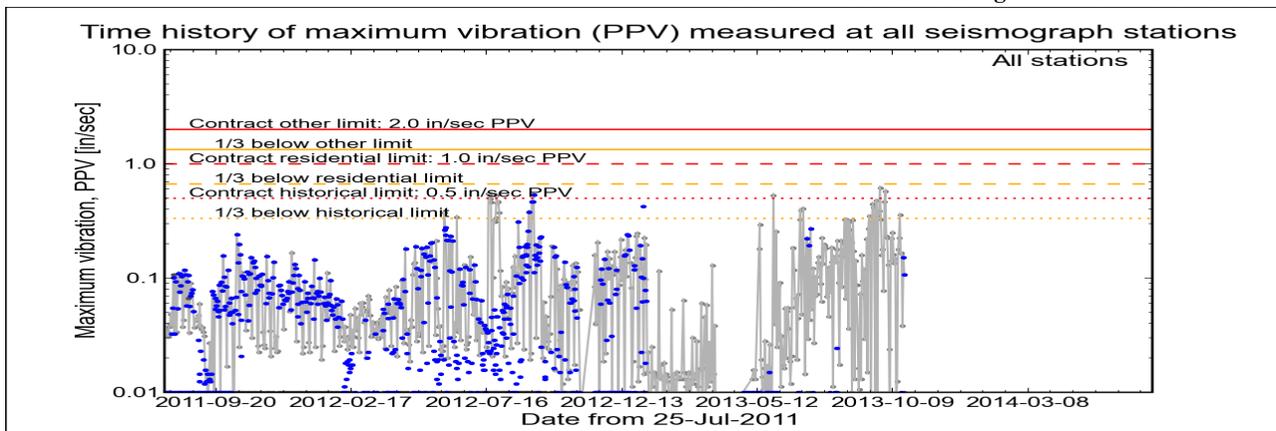
*Click station for station information or click channel for event summary.*



### Latest Event Summary

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**Date and time of last reading: Tue 22-Oct-2013 18:32:34**



*(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="#">Blast</a>	<a href="#">Tue 22-Oct-2013</a>	18:32:34	0.1070	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Mon 21-Oct-2013</a>	19:47:34	0.1520	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sun 20-Oct-2013</a>	16:03:25	0.0381	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sat 19-Oct-2013</a>	16:17:36	0.1670	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 18-Oct-2013</a>	13:02:35	0.1650	<a href="#">Elizabeth Marina</a>
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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 Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. 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. (*e4sciences stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

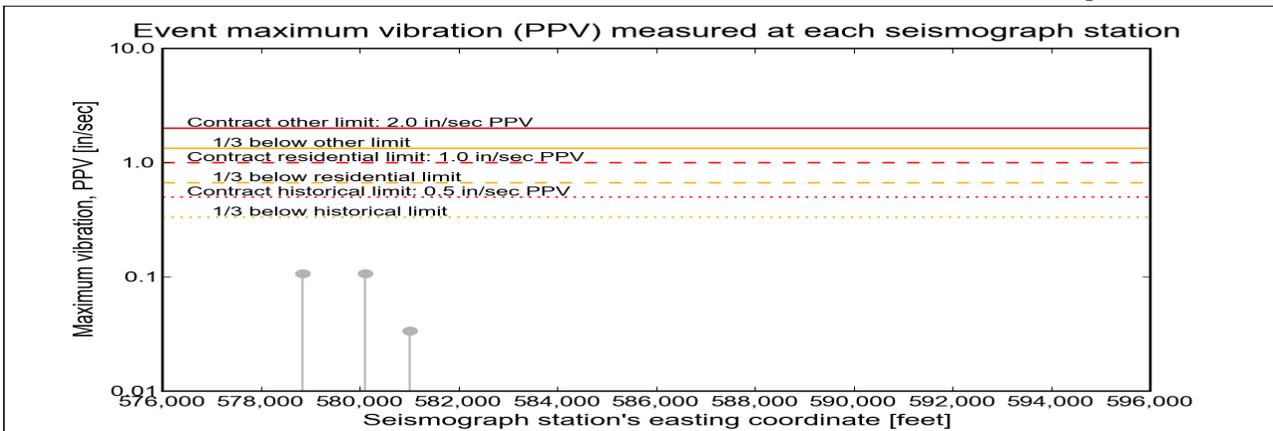
*Click station for more information about the station.*



### 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:** Tue 22-Oct-2013



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

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Station	Date	Time	Max PPV (in / second)	Vibration Type
<a href="#">Elizabeth Marina - e4s010</a>	Tue 22-Oct-2013	18:32:34	0.107	Ambient
<a href="#">Elizabeth Port - e4s009</a>	Tue 22-Oct-2013	18:32:34	0.107	Ambient
<a href="#">NYCT - e4s008</a>	Tue 22-Oct-2013	18:37:44	0.0337	Ambient



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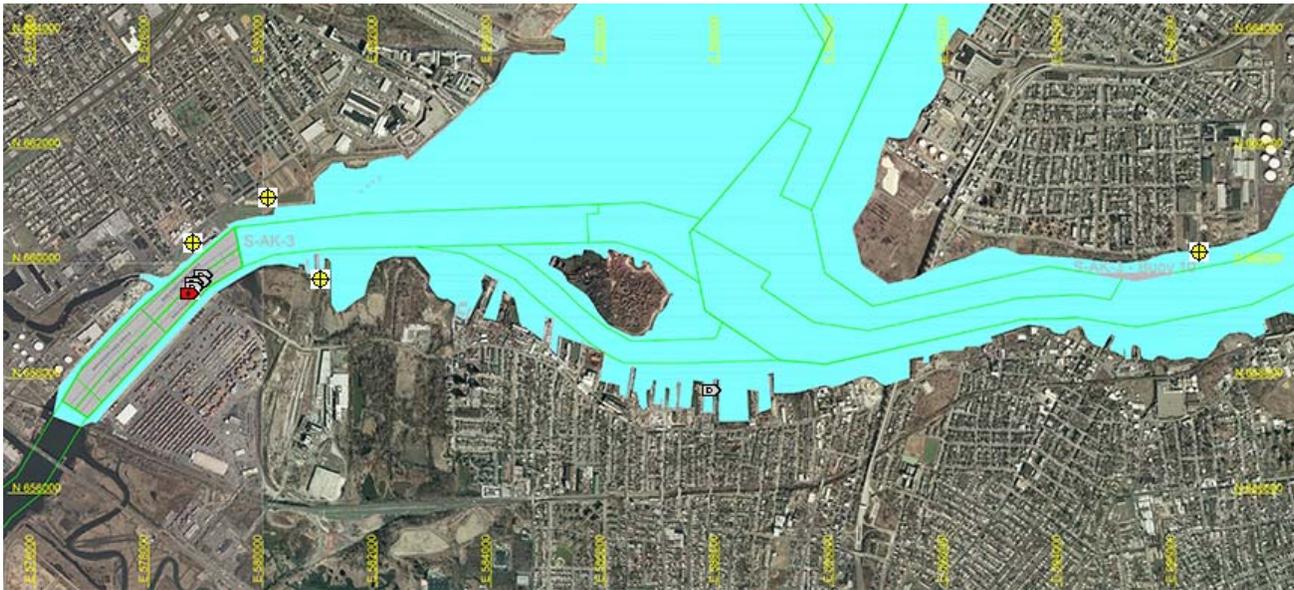
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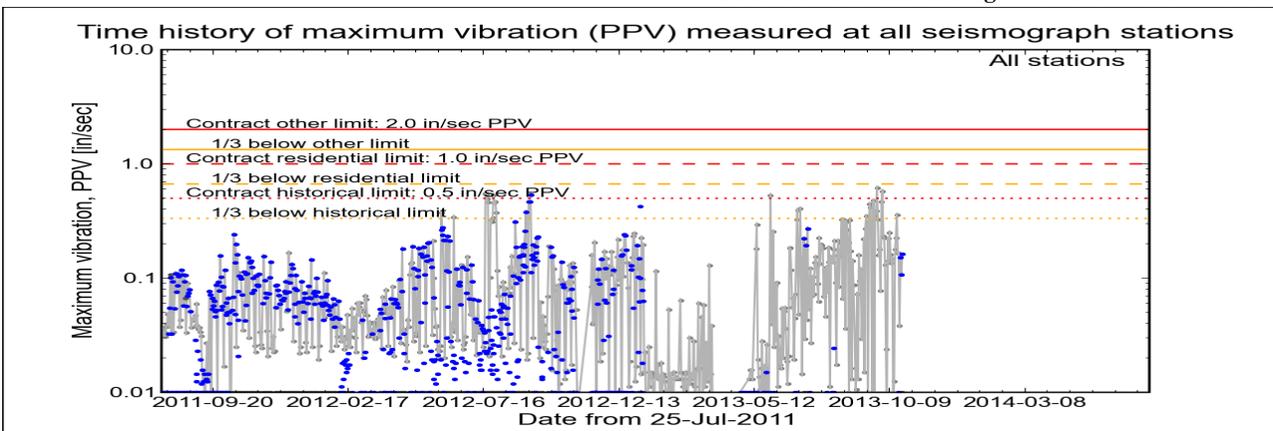
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### Latest Event Summary

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**Date and time of last reading:** Wed 23-Oct-2013 17:02:36



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

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<a href="#">Blast</a>	<a href="#">Wed 23-Oct-2013</a>	17:02:36	0.1620	<a href="#">Elizabeth Marina</a>
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<a href="#">Blast</a>	<a href="#">Mon 21-Oct-2013</a>	19:47:34	0.1520	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sun 20-Oct-2013</a>	16:03:25	0.0381	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sat 19-Oct-2013</a>	16:17:36	0.1670	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 18-Oct-2013</a>	13:02:35	0.1650	<a href="#">Elizabeth Marina</a>



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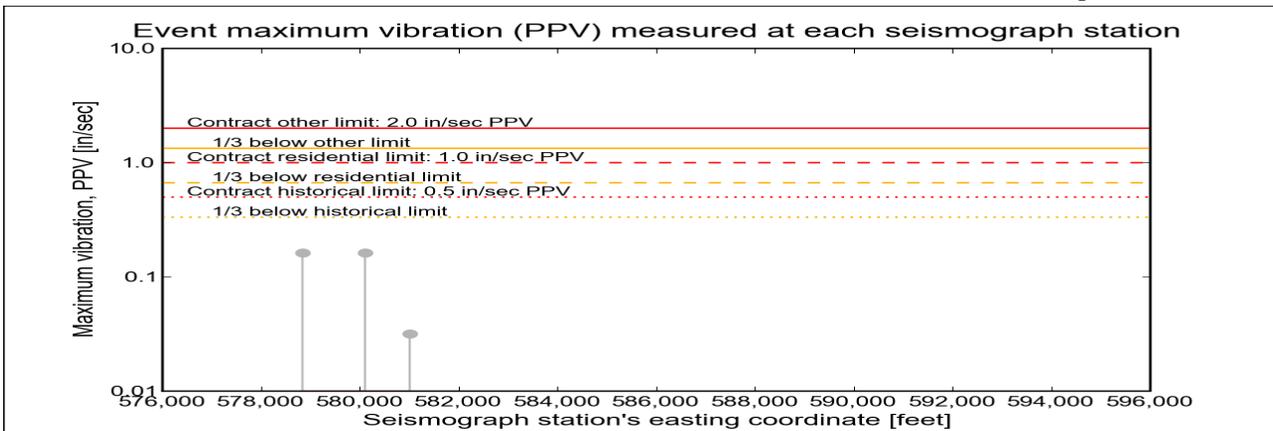
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**Date of reading:** Wed 23-Oct-2013



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<a href="#">NYCT - e4s008</a>	<a href="#">Wed 23-Oct-2013</a>	17:07:48	0.0319	<a href="#">Ambient</a>



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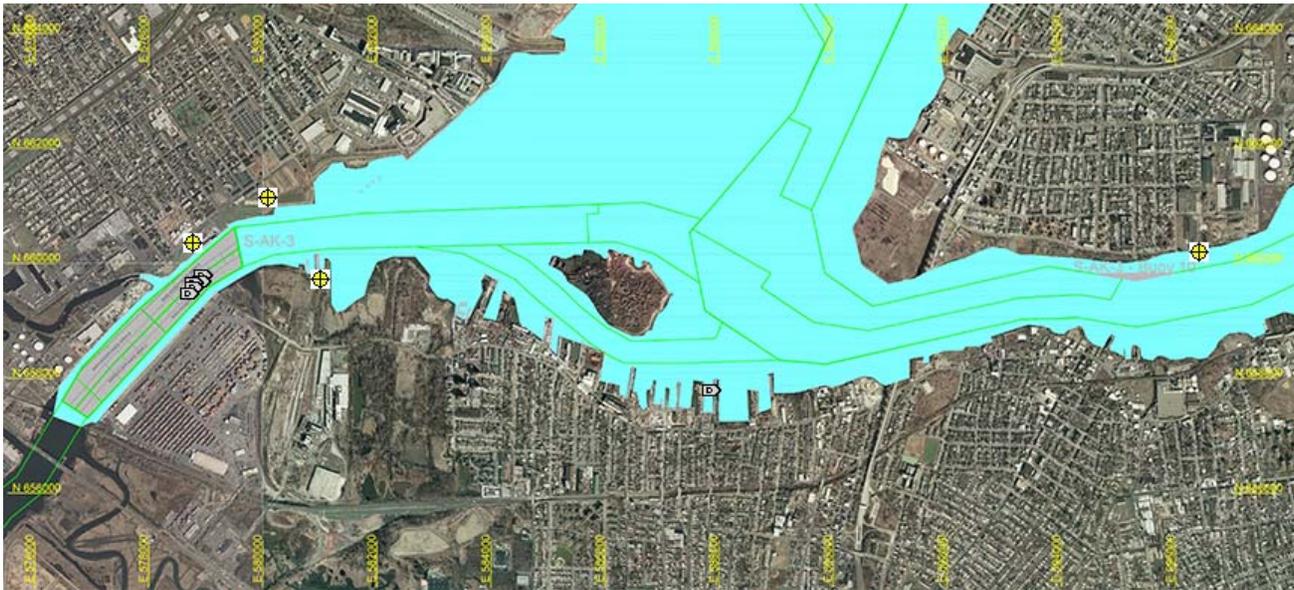
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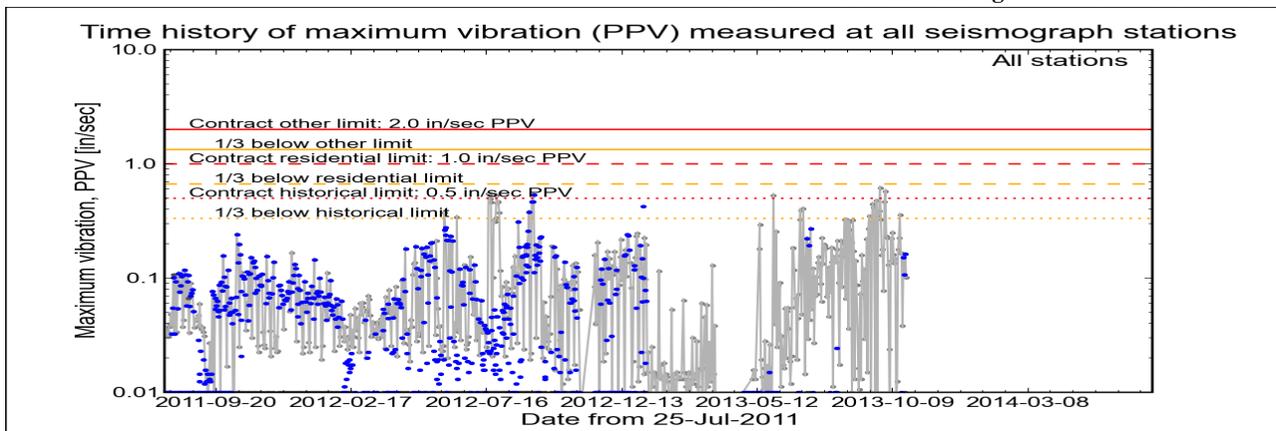
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**Date and time of last reading:** Thu 24-Oct-2013 13:17:36



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

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Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
<a href="#">Ambient</a>	<a href="#">Thu 24-Oct-2013</a>	13:17:36	0.1010	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Wed 23-Oct-2013</a>	17:02:36	0.1620	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Tue 22-Oct-2013</a>	18:32:34	0.1070	<a href="#">Elizabeth Marina</a>
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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 Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. 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. (*e4sciences stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

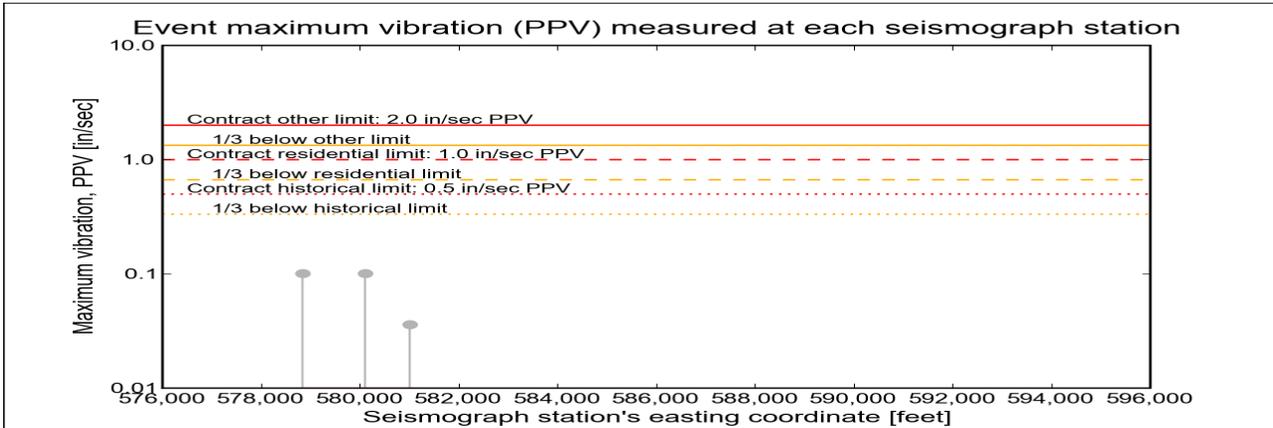
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**Date of reading:** Thu 24-Oct-2013



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<a href="#">Elizabeth Marina - e4s010</a>	Thu 24-Oct-2013	13:17:36	0.101	Ambient
<a href="#">Elizabeth Port - e4s009</a>	Thu 24-Oct-2013	13:17:36	0.101	Ambient
<a href="#">NYCT - e4s008</a>	Thu 24-Oct-2013	13:07:45	0.0362	Ambient



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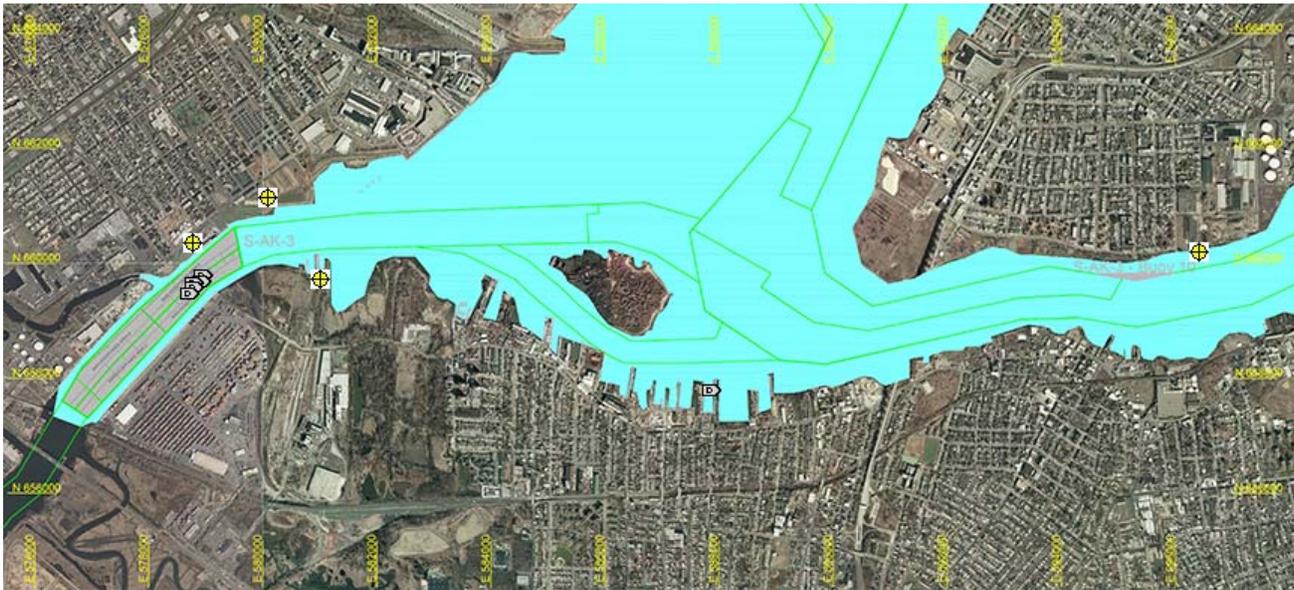
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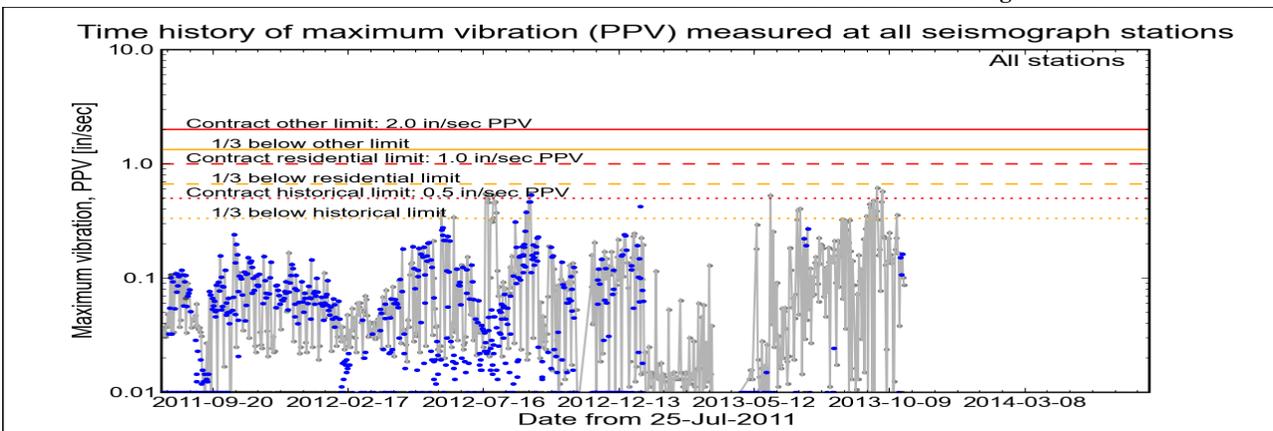
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**Date and time of last reading: Fri 25-Oct-2013 15:17:37**



(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="#">Fri 25-Oct-2013</a>	15:17:37	0.0869	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Thu 24-Oct-2013</a>	13:17:36	0.1010	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Wed 23-Oct-2013</a>	17:02:36	0.1620	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Tue 22-Oct-2013</a>	18:32:34	0.1070	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Mon 21-Oct-2013</a>	19:47:34	0.1520	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sun 20-Oct-2013</a>	16:03:25	0.0381	<a href="#">Elizabeth Marina</a>



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## Arthur Kill 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 Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. 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. (*e4sciences stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

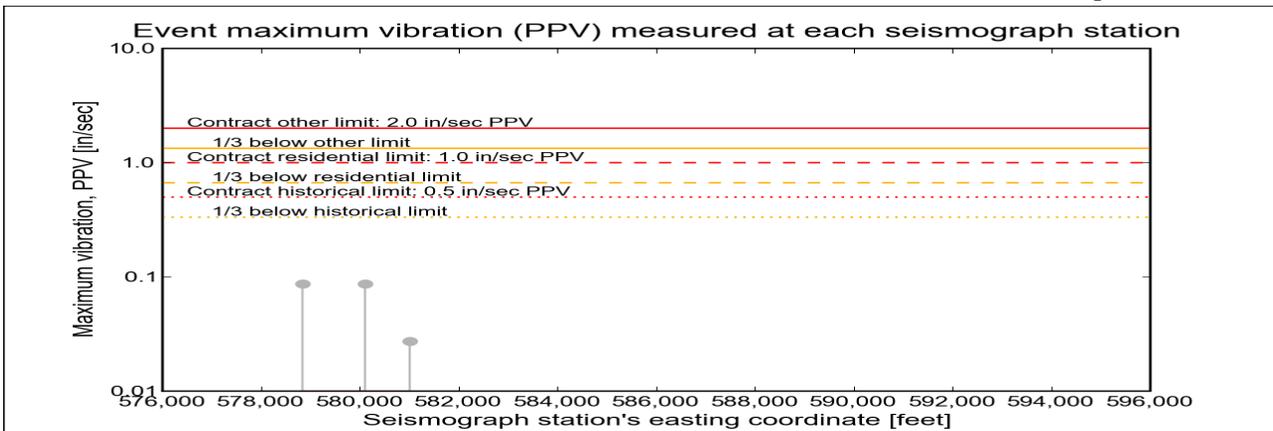
*Click station for more information about the station.*



### 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:** Fri 25-Oct-2013



*(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="#">Elizabeth Marina - e4s010</a>	Fri 25-Oct-2013	15:17:37	0.0869	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Fri 25-Oct-2013	15:17:37	0.0869	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	Fri 25-Oct-2013	15:22:46	0.0275	<a href="#">Ambient</a>



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## Arthur Kill Blast Vibration Summary

This site summarizes the measured ground vibrations in northwest Staten Island, from rock blasting in the Arthur Kill 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 in Arthur Kill starting 25 July 2011.

This page represents the most recent observations.

The Arthur Kill contract area is mapped below in light gray. The navigation grid is superimposed. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. 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. (e4sciences stations are circles. CDB stations are triangles.) Selecting a station activates its station page.

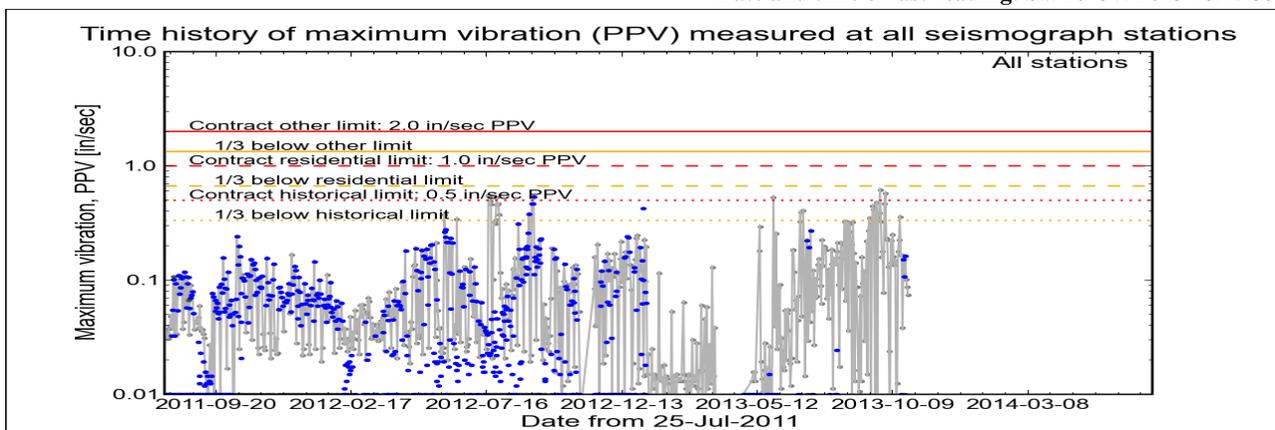
*Click station for station information or click channel for event summary.*



### 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 25 July 2011. 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 blue dots are blast-vibration levels. The dark gray dots are predicted blast-vibration levels.)

**Date and time of last reading: Sat 26-Oct-2013 18:17:33**



(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="#">Sat 26-Oct-2013</a>	18:17:33	0.0737	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 25-Oct-2013</a>	15:17:37	0.0869	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Thu 24-Oct-2013</a>	13:17:36	0.1010	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Wed 23-Oct-2013</a>	17:02:36	0.1620	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Tue 22-Oct-2013</a>	18:32:34	0.1070	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Mon 21-Oct-2013</a>	19:47:34	0.1520	<a href="#">Elizabeth Marina</a>



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## Arthur Kill 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 Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. 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. (*e4sciences stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

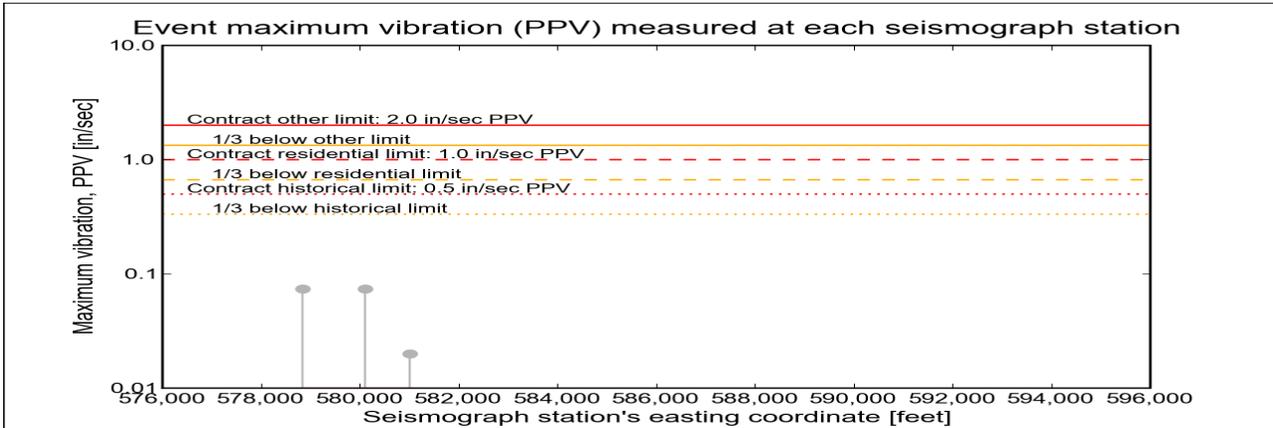
*Click station for more information about the station.*



### 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 26-Oct-2013



*(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="#">Elizabeth Marina - e4s010</a>	Sat 26-Oct-2013	18:17:33	0.0737	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Sat 26-Oct-2013	18:17:33	0.0737	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	Sat 26-Oct-2013	13:07:45	0.02	<a href="#">Ambient</a>



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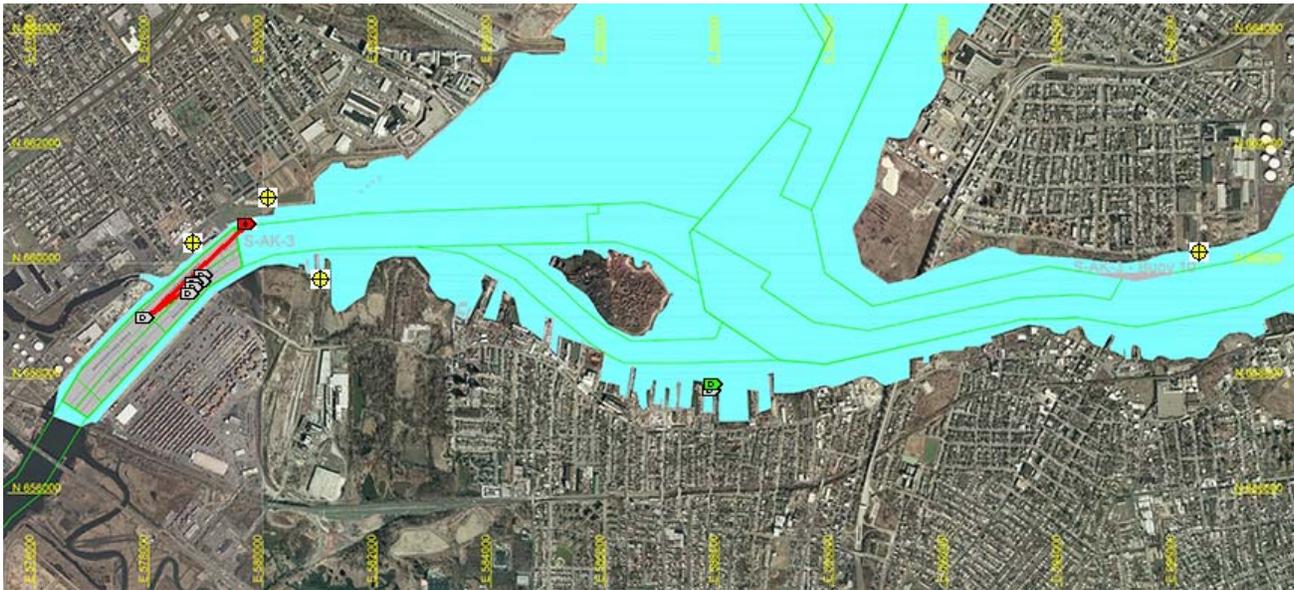
## Arthur Kill Blast Vibration Summary

This site summarizes the measured ground vibrations in northwest Staten Island, from rock blasting in the Arthur Kill 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 in Arthur Kill starting 25 July 2011.

This page represents the most recent observations.

The Arthur Kill contract area is mapped below in light gray. The navigation grid is superimposed. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. 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. (e4sciences stations are circles. CDB stations are triangles.) Selecting a station activates its station page.

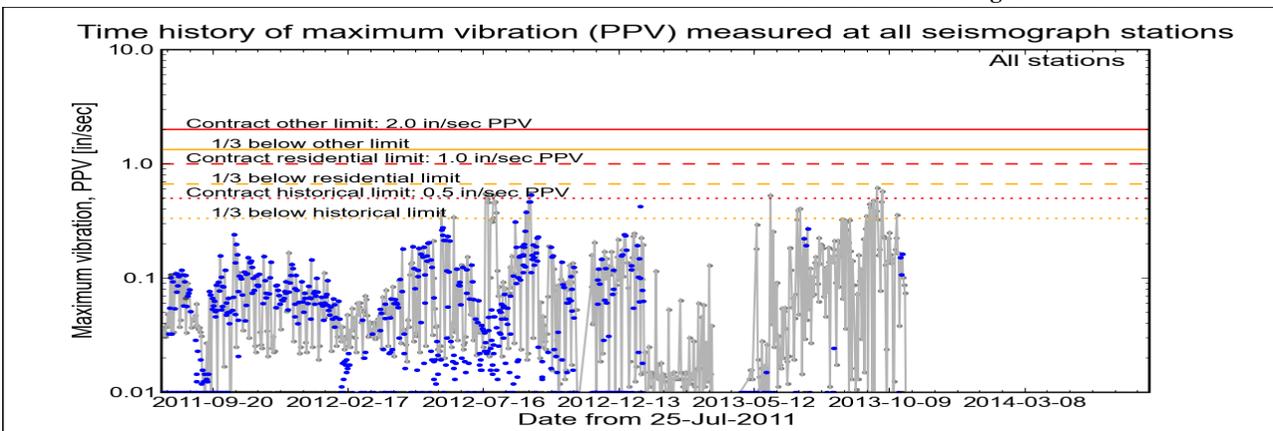
*Click station for station information or click channel for event summary.*



### 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 25 July 2011. 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 blue dots are blast-vibration levels. The dark gray dots are predicted blast-vibration levels.)

**Date and time of last reading:** Sun 27-Oct-2013 15:07:45



(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 27-Oct-2013</a>	15:07:45	0.0056	<a href="#">NYCT</a>
<a href="#">Ambient</a>	<a href="#">Sat 26-Oct-2013</a>	18:17:33	0.0737	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 25-Oct-2013</a>	15:17:37	0.0869	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Thu 24-Oct-2013</a>	13:17:36	0.1010	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Wed 23-Oct-2013</a>	17:02:36	0.1620	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Tue 22-Oct-2013</a>	18:32:34	0.1070	<a href="#">Elizabeth Marina</a>



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## Arthur Kill 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 Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. 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. (e4sciences stations are circles. CDB stations are triangles.) Selecting a station activates its station page.

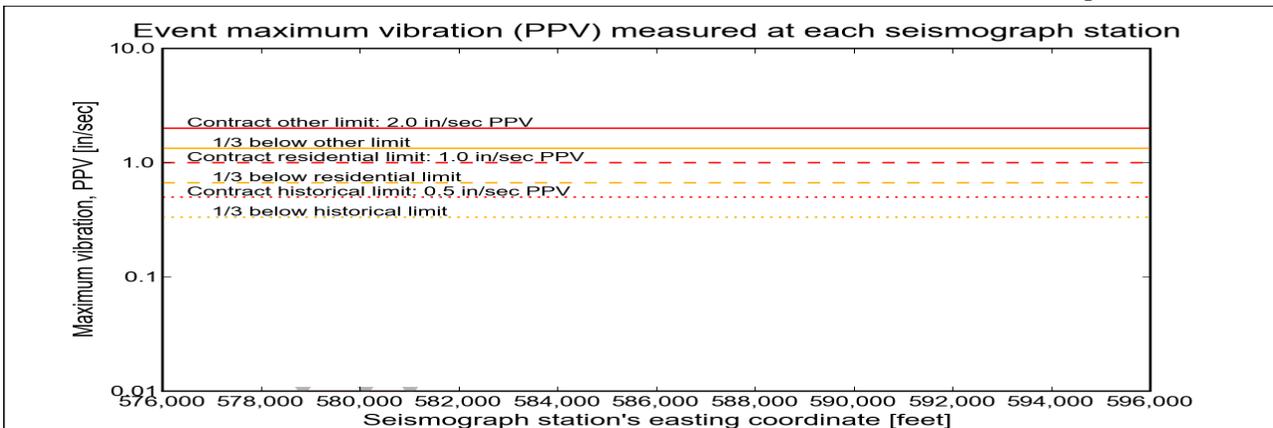
*Click station for more information about the station.*



### 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 27-Oct-2013



*(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="#">Elizabeth Marina - e4s010</a>	Sun 27-Oct-2013	12:47:36	0.00375	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Sun 27-Oct-2013	12:47:36	0.00375	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	Sun 27-Oct-2013	15:07:45	0.00562	<a href="#">Ambient</a>



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