



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 28 – November 03, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, October 28, through Sunday, November 03, 2013.

There were 8 blasts this week in the S-AK-3 project area.

We recorded vibrations in S-AK-3 project area. The maximum vibration recorded was 0.204 in/s recorded at Elizabeth Marina on November 02. 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 28
October 29
October 30
October 31
November 01
November 02
November 03

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 0.025 in/s. Vibrations at Elizabeth Marina were all below 0.210 in/s. All blast vibration measurements are below the contract vibration limits for this site.

Table 1. Blast Summary for this week

Blast	Date & Time EST/EDT of blast	Distance from blast to e4s stations (feet)	e4s Max. vibration (in/s)
AK-092	2013-10-28 13:25	0,950 - 2,350	0.167
AK-093	2013-10-29 09:26	1,080 - 2,470	0.136
AK-094	2013-10-29 16:00	0,960 - 2,300	0.0762
AK-095	2013-10-30 11:16	1,230 - 2,600	0.1
AK-096	2013-10-31 09:51	1,390 - 2,750	0.07
AK-097	2013-11-01 16:32	1,110 - 2,760	0.1
AK-098	2013-11-02 09:30	1,110 - 2,800	0.0806
AK-099	2013-11-02 15:51	0,940 - 2,660	0.204



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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.



[Todays Dredge Position](#)

[Latest Week's
Dredge Position Summary](#)

[Project
History List](#)

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
2013-11-03 Sun	Capt AJ Fournier	587670	657943	No Activity
2013-11-03 Sun	Drillboat Apache	578561	659804	
2013-11-02 Sat				
2013-11-01 Fri	Capt AJ Fournier	587670	657943	
2013-11-01 Fri	Dredge 55	587860	659146	
2013-10-31 Thu	Capt AJ Fournier	587670	657943	
2013-10-31 Thu	Drillboat Apache	578287	659001	
2013-10-30 Wed	Drillboat Kraken	578368	659191	
2013-10-29 Tue	Drillboat Kraken	578631	659392	
2013-10-28 Mon	Capt AJ Fournier	587670	657943	
2013-10-28 Mon	Drillboat Apache	578618	659367	
2013-10-28 Mon	Drillboat Kraken	578582	659411	



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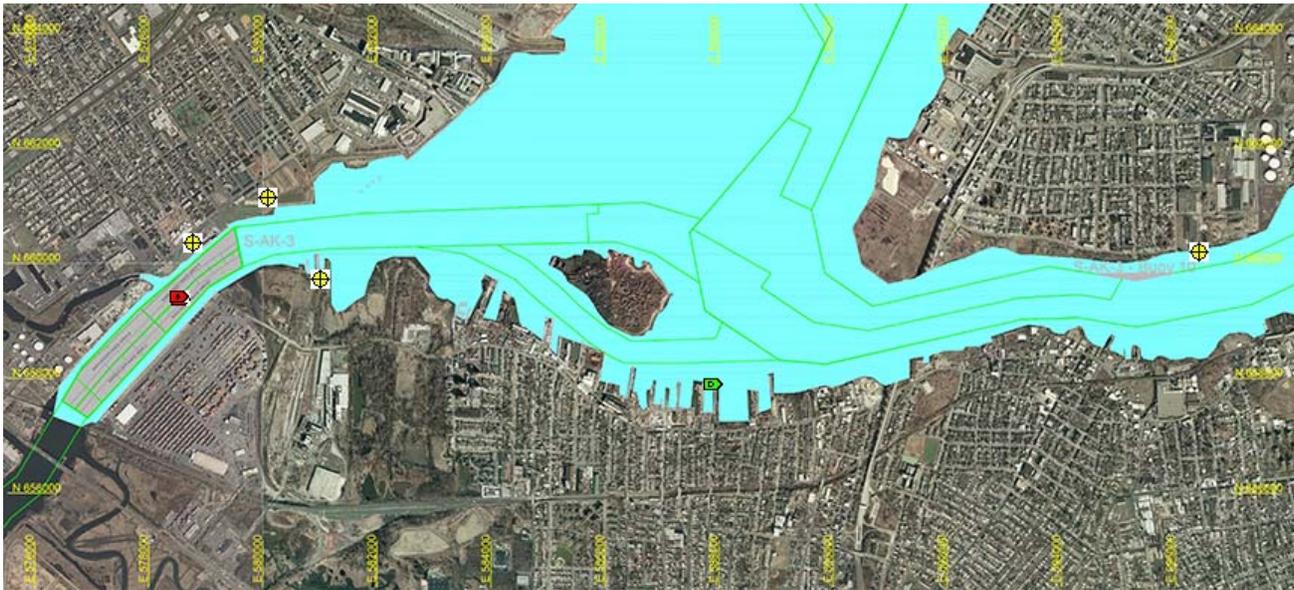
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This page represents the most recent observations.

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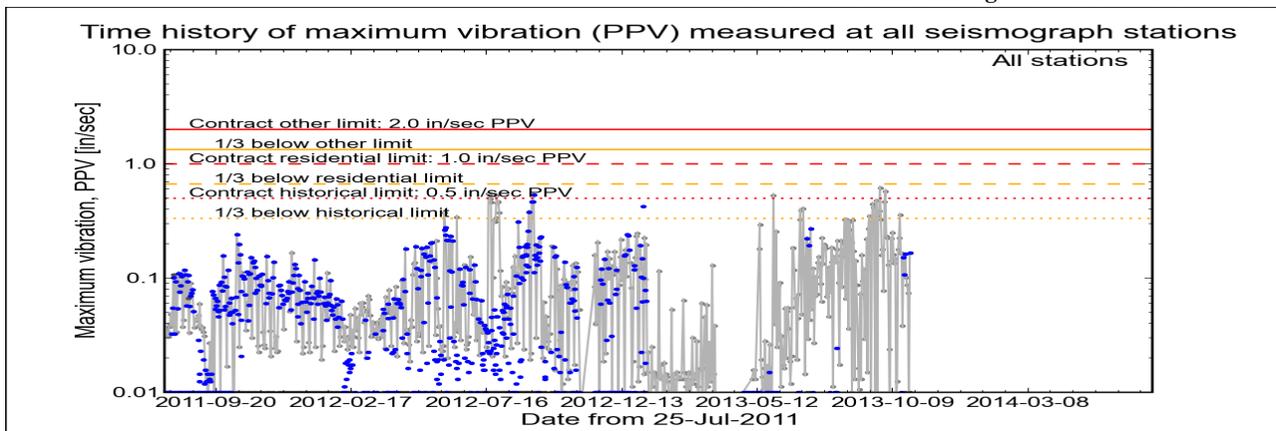
Click station for station information or click channel for event summary.



Latest Event Summary

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Date and time of last reading: Mon 28-Oct-2013 17:17:34



(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
Blast	Mon 28-Oct-2013	17:17:34	0.1670	Elizabeth Marina
Ambient	Sun 27-Oct-2013	15:07:45	0.0056	NYCT
Ambient	Sat 26-Oct-2013	18:17:33	0.0737	Elizabeth Marina
Ambient	Fri 25-Oct-2013	15:17:37	0.0869	Elizabeth Marina
Ambient	Thu 24-Oct-2013	13:17:36	0.1010	Elizabeth Marina
Blast	Wed 23-Oct-2013	17:02:36	0.1620	Elizabeth Marina



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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.

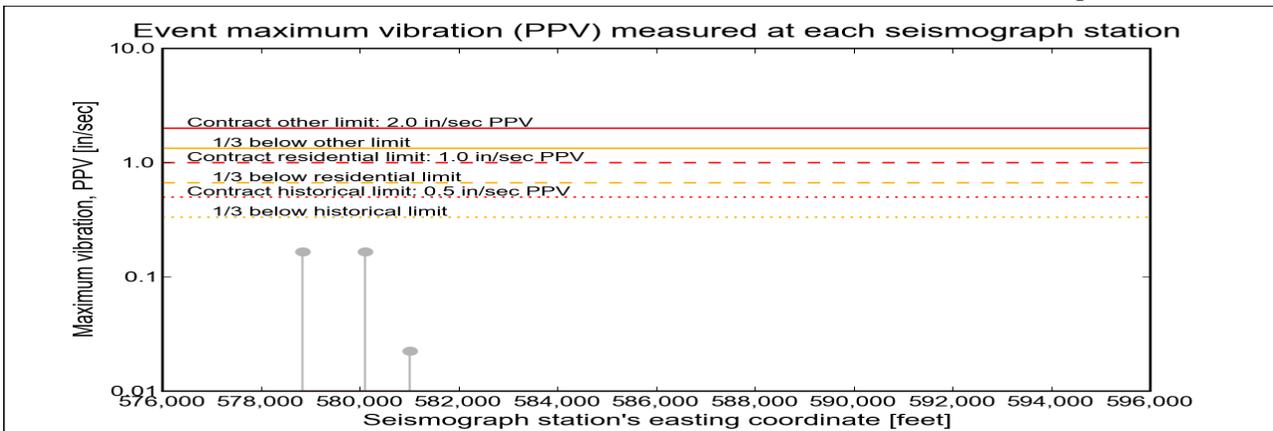
Click station for more information about the station.



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 28-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
Elizabeth Marina - e4s010	Mon 28-Oct-2013	17:17:34	0.167	Ambient
Elizabeth Port - e4s009	Mon 28-Oct-2013	17:17:34	0.167	Ambient
NYCT - e4s008	Mon 28-Oct-2013	17:22:46	0.0225	Ambient



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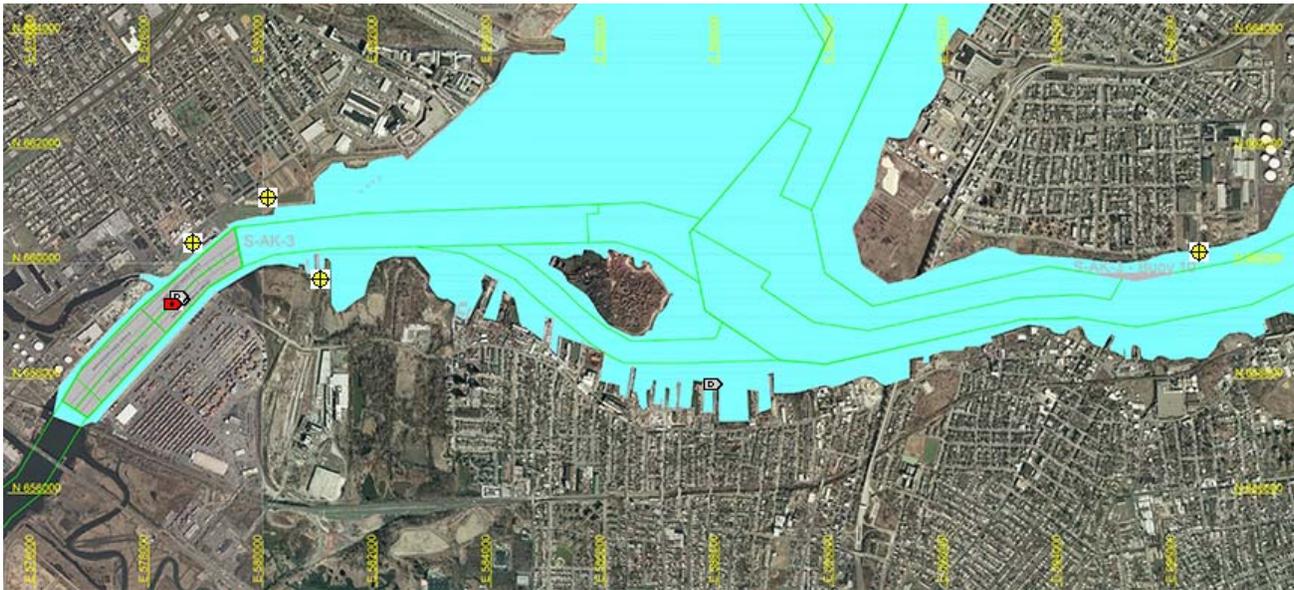
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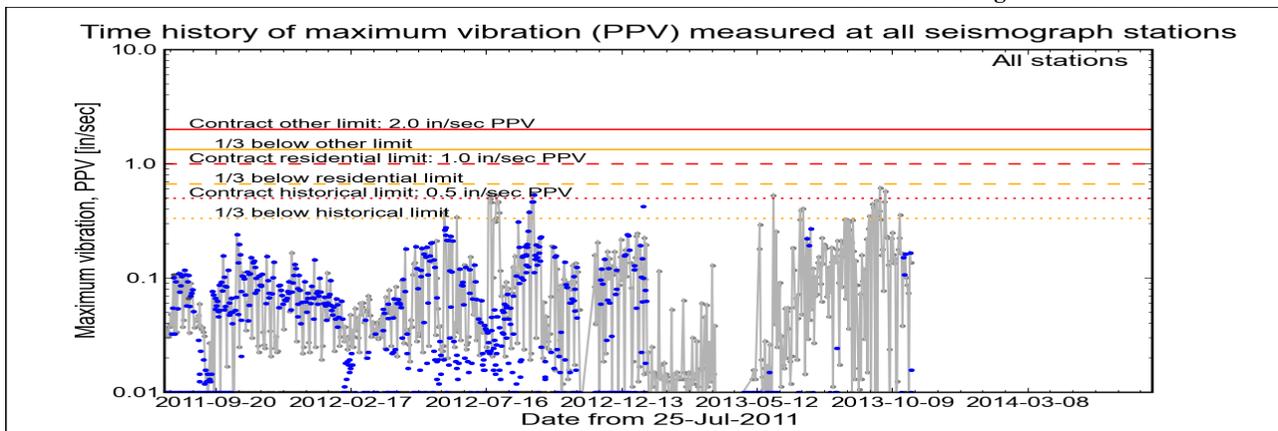
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Latest Event Summary

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Date and time of last reading: Tue 29-Oct-2013 13:17:33



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Ambient	Sat 26-Oct-2013	18:17:33	0.0737	Elizabeth Marina
Ambient	Fri 25-Oct-2013	15:17:37	0.0869	Elizabeth Marina
Ambient	Thu 24-Oct-2013	13:17:36	0.1010	Elizabeth Marina



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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.

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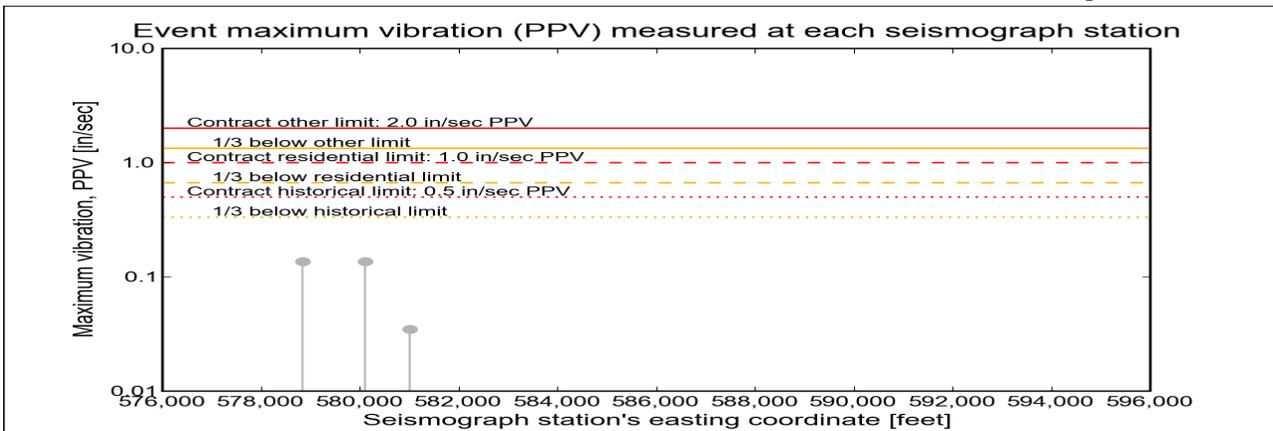
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Date of reading: Tue 29-Oct-2013



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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.

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Elizabeth Port - e4s009	Tue 29-Oct-2013	13:17:33	0.136	Ambient
NYCT - e4s008	Tue 29-Oct-2013	13:22:45	0.035	Ambient



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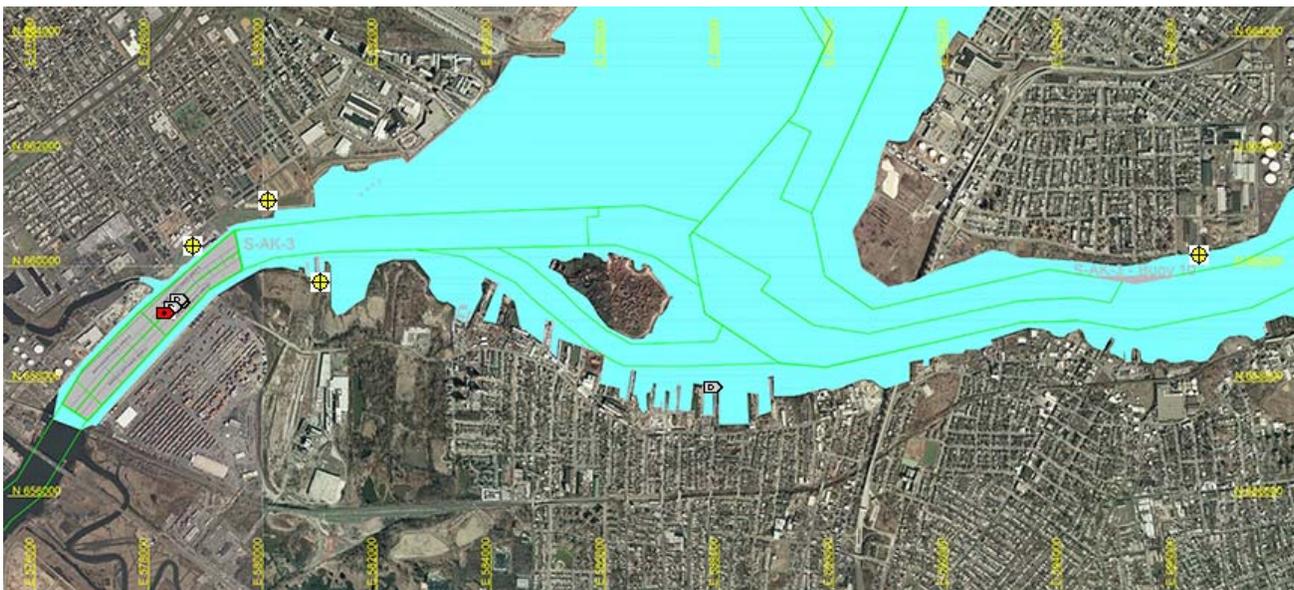
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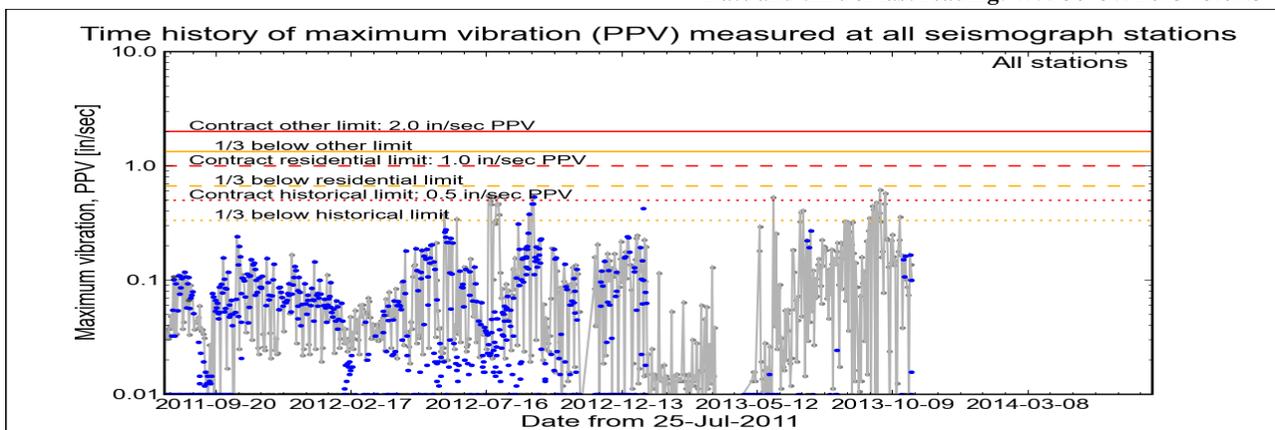
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Date and time of last reading: Wed 30-Oct-2013 15:02:34



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

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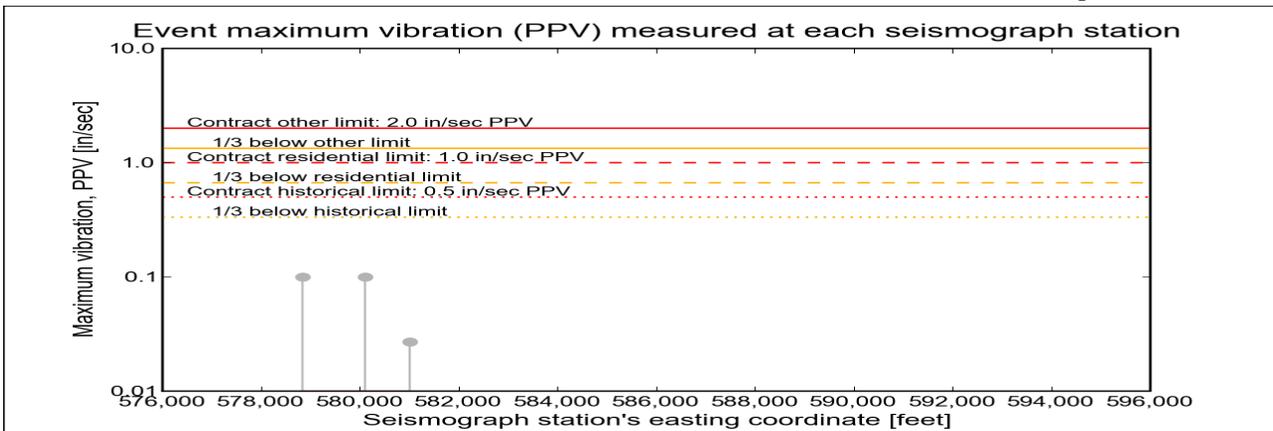
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Date of reading: Wed 30-Oct-2013



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Station	Date	Time	Max PPV (in / second)	Vibration Type
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Elizabeth Port - e4s009	Wed 30-Oct-2013	15:02:34	0.1	Ambient
NYCT - e4s008	Wed 30-Oct-2013	15:12:50	0.0269	Ambient



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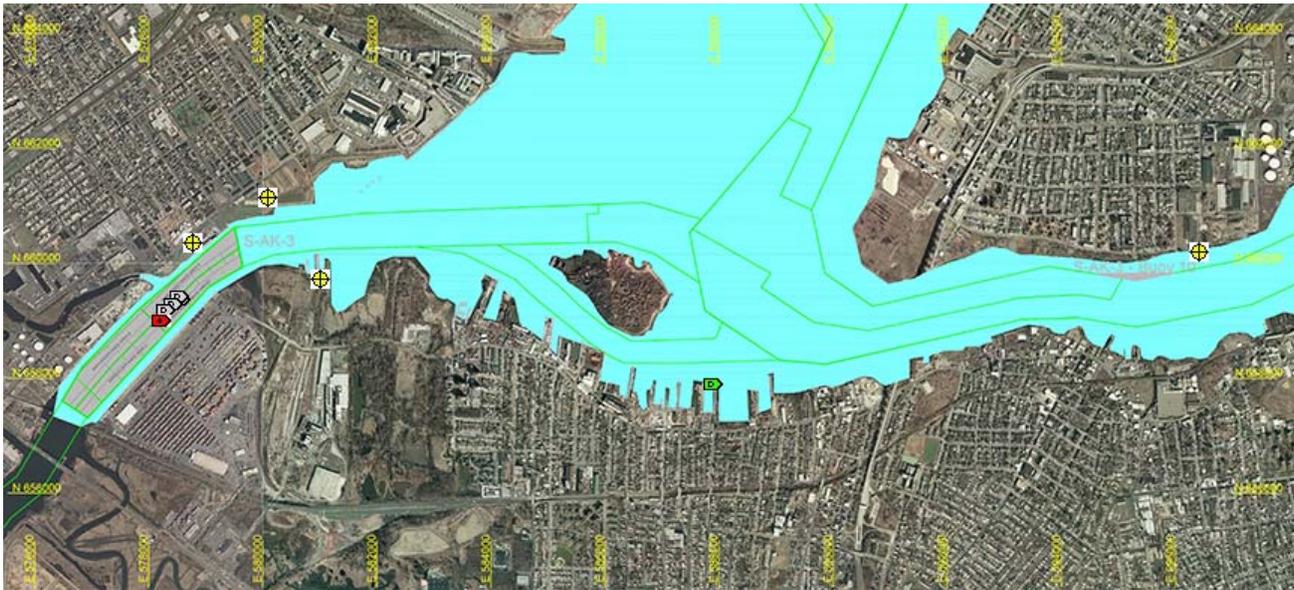
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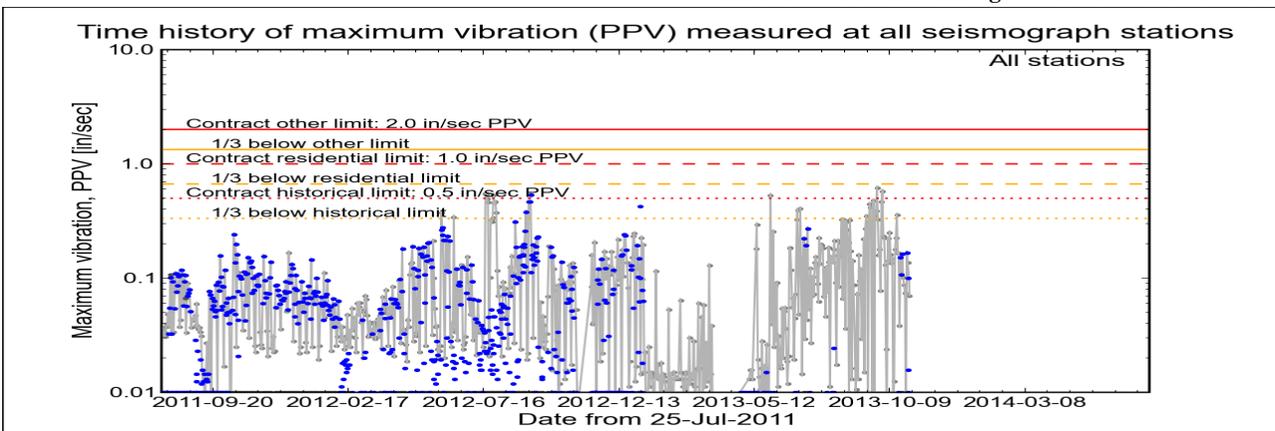
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Date and time of last reading: Thu 31-Oct-2013 13:47:35



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

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Blast	Mon 28-Oct-2013	17:17:34	0.1670	Elizabeth Marina
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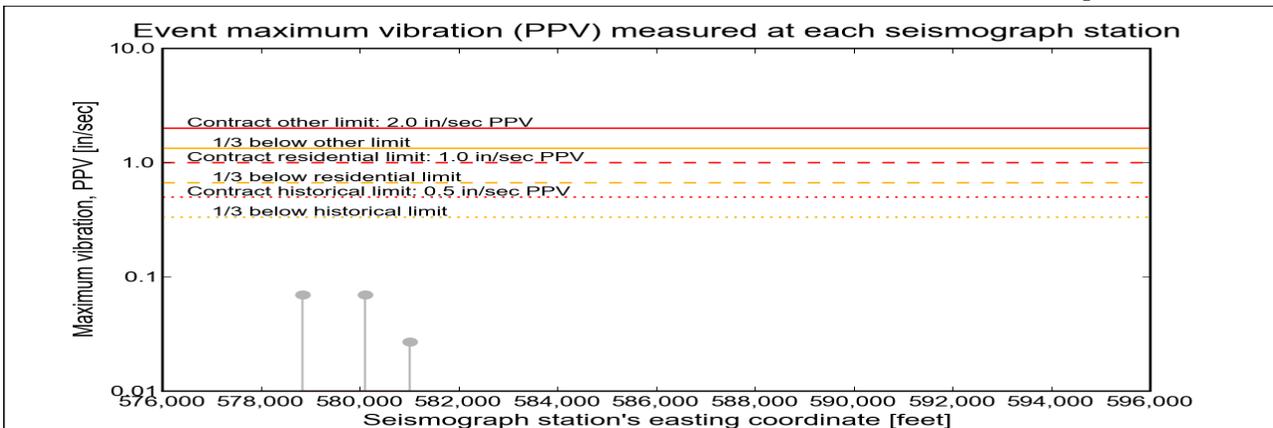
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27 Glen Road, Sandy Hook, CT 06482

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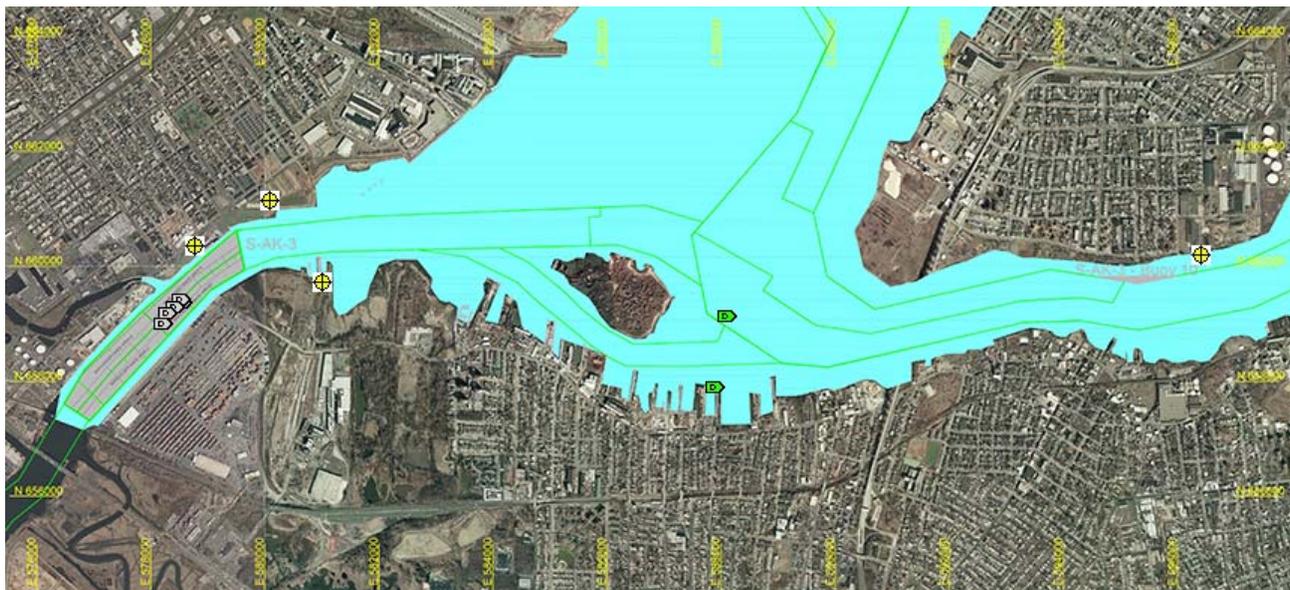
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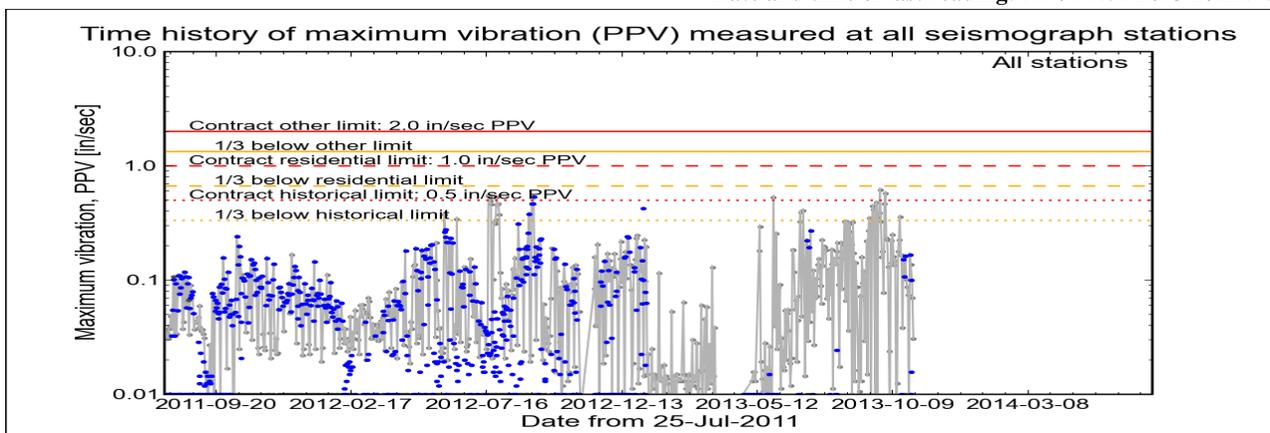
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Date and time of last reading: Fri 01-Nov-2013 20:22:47



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

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Ambient	Thu 31-Oct-2013	13:47:35	0.0700	Elizabeth Marina
Blast	Wed 30-Oct-2013	15:02:34	0.1000	Elizabeth Marina
Ambient	Tue 29-Oct-2013	13:17:33	0.1360	Elizabeth Marina
Blast	Mon 28-Oct-2013	17:17:34	0.1670	Elizabeth Marina
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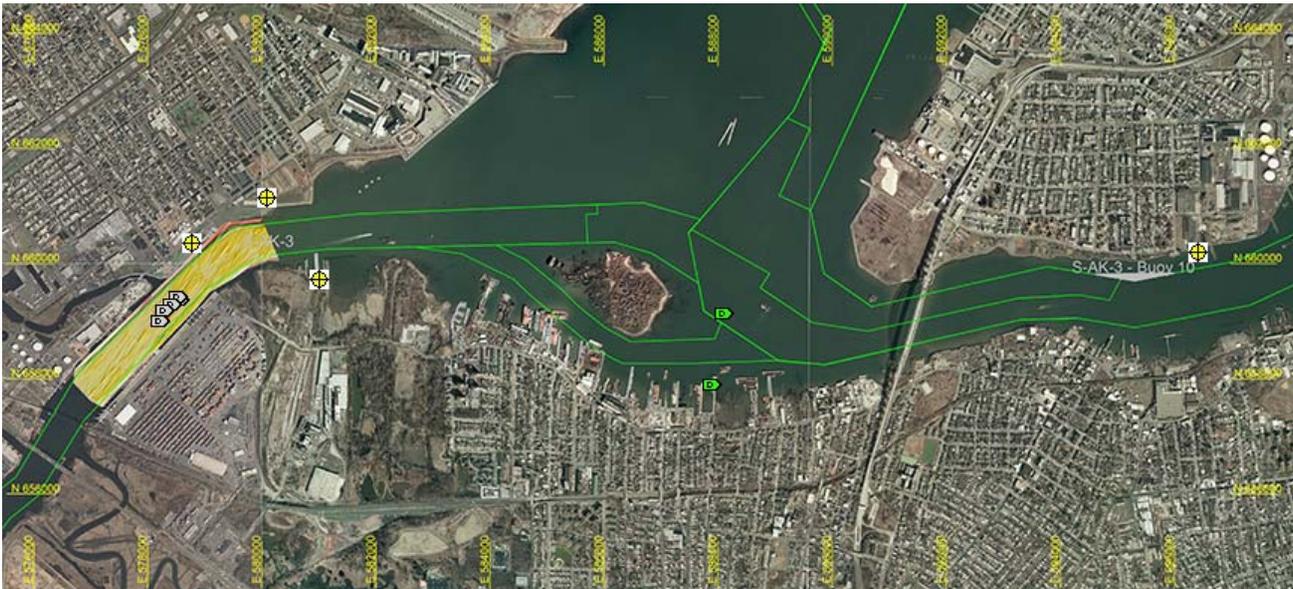
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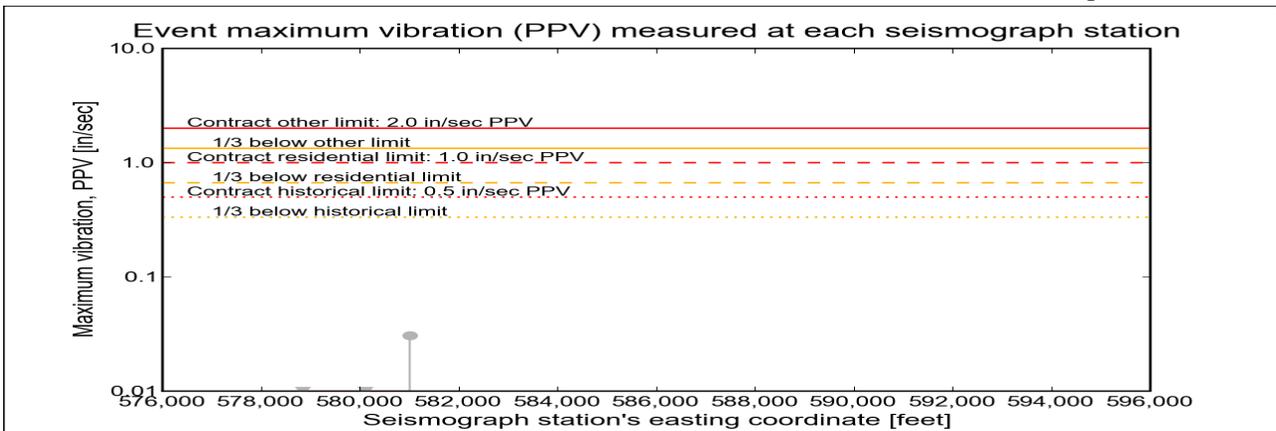
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Date of reading: Fri 01-Nov-2013



(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
Elizabeth Marina - e4s010	Fri 01-Nov-2013	11:32:35	0.00937	Ambient
Elizabeth Port - e4s009	Fri 01-Nov-2013	11:32:35	0.00937	Ambient
NYCT - e4s008	Fri 01-Nov-2013	20:22:47	0.0306	Ambient



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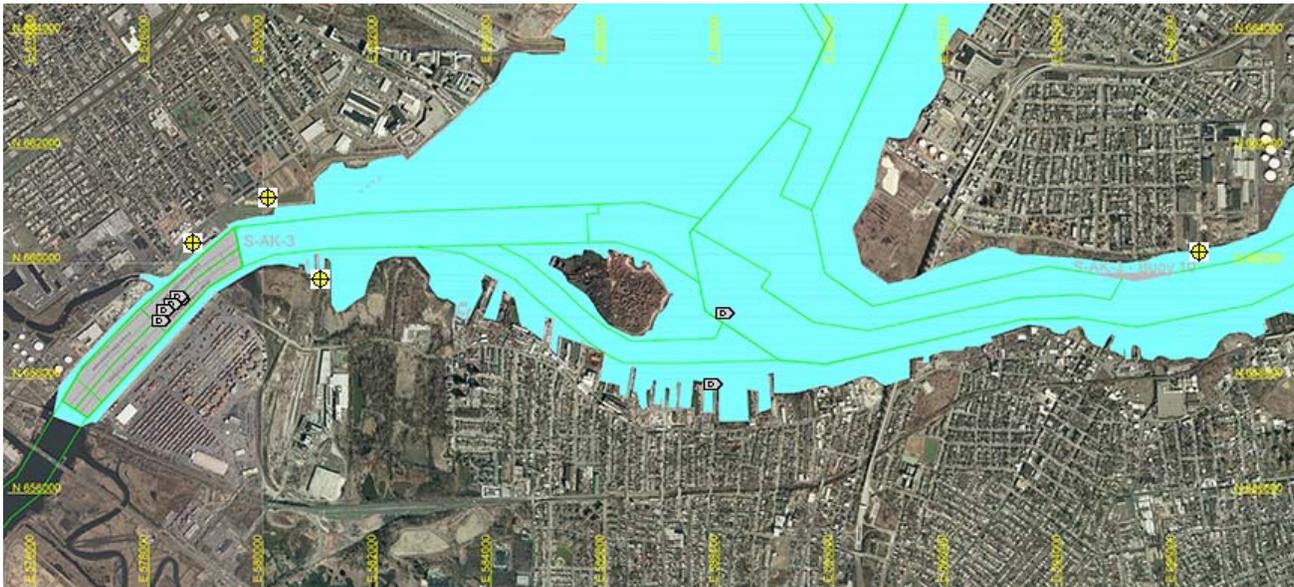
Arthur Kill Blast Vibration Summary

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.

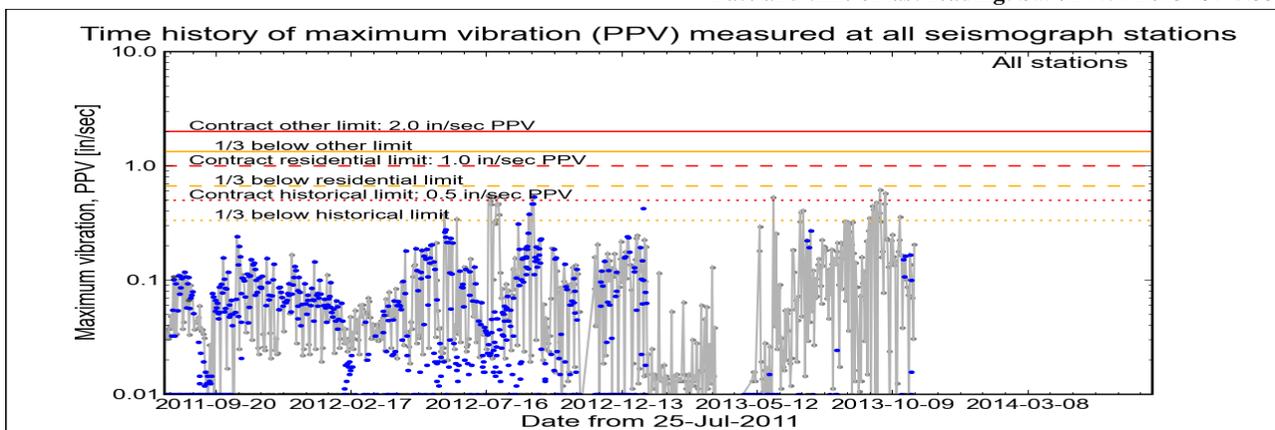
Click station for station information or click channel for event summary.



Latest Event Summary

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 02-Nov-2013 19:47:33



(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
Ambient	Sat 02-Nov-2013	19:47:33	0.2040	Elizabeth Marina
Ambient	Fri 01-Nov-2013	20:22:47	0.0306	NYCT
Ambient	Thu 31-Oct-2013	13:47:35	0.0700	Elizabeth Marina
Blast	Wed 30-Oct-2013	15:02:34	0.1000	Elizabeth Marina
Ambient	Tue 29-Oct-2013	13:17:33	0.1360	Elizabeth Marina
Blast	Mon 28-Oct-2013	17:17:34	0.1670	Elizabeth Marina



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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.

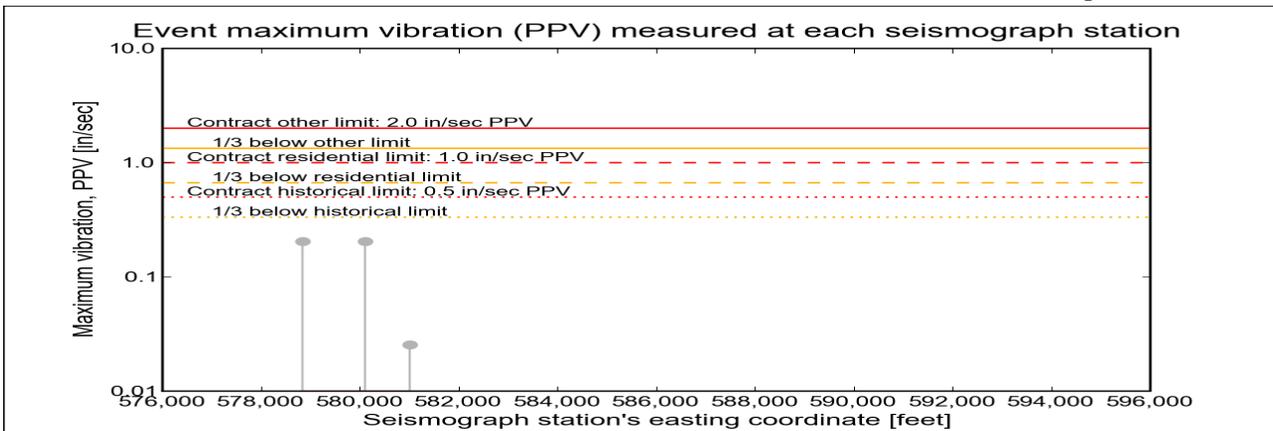
Click station for more information about the station.



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 02-Nov-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
Elizabeth Marina - e4s010	Sat 02-Nov-2013	19:47:33	0.204	Ambient
Elizabeth Port - e4s009	Sat 02-Nov-2013	19:47:33	0.204	Ambient
NYCT - e4s008	Sat 02-Nov-2013	19:37:45	0.0256	Ambient



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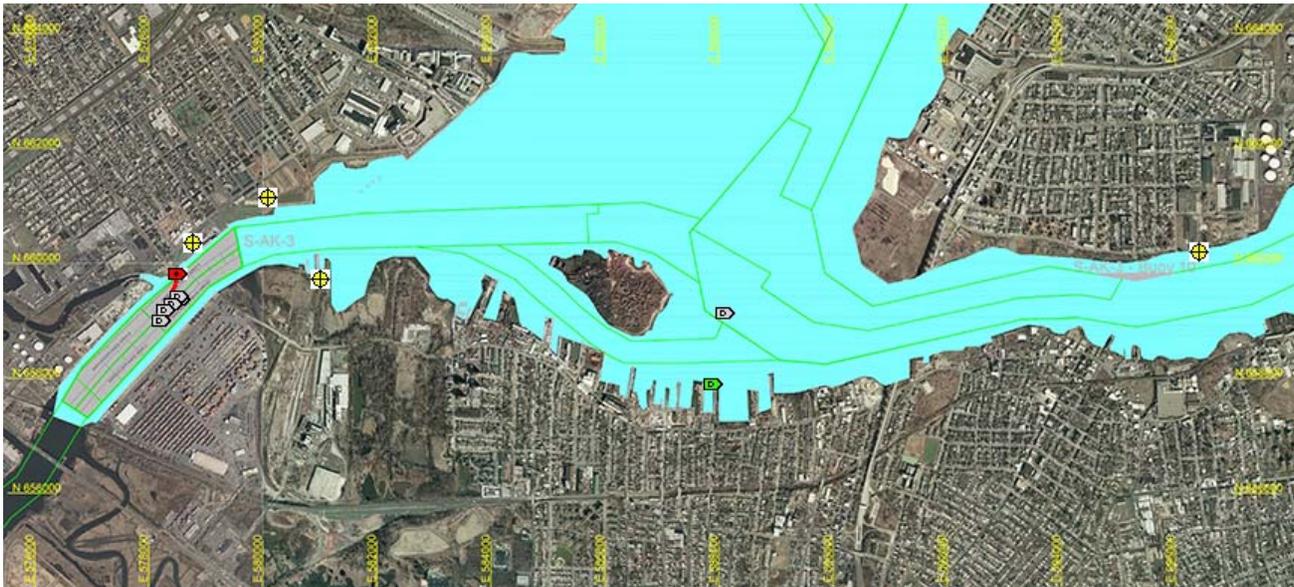
Arthur Kill Blast Vibration Summary

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.

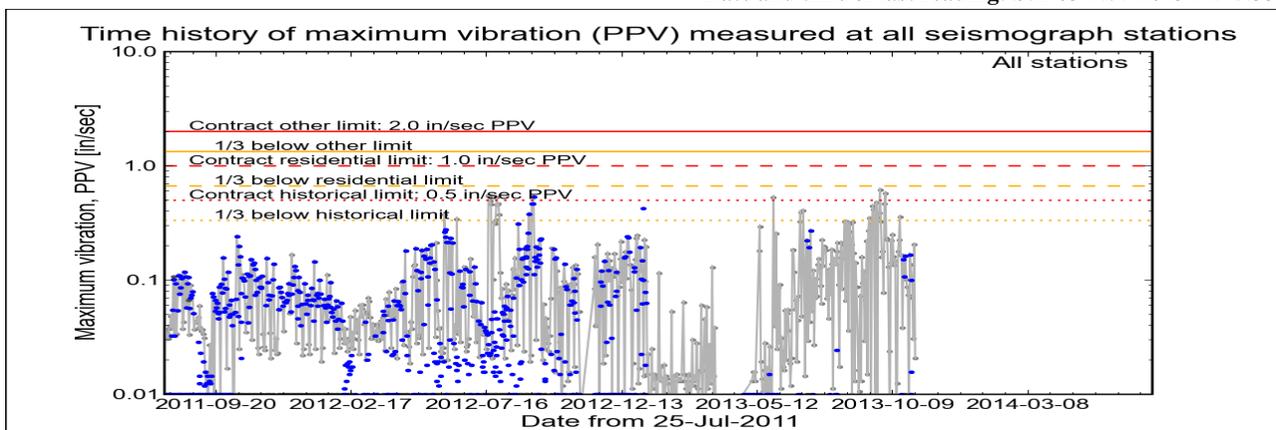
Click station for station information or click channel for event summary.



Latest Event Summary

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 03-Nov-2013 11:47:33



(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
Ambient	Sun 03-Nov-2013	11:47:33	0.0206	Elizabeth Marina
Ambient	Sat 02-Nov-2013	19:47:33	0.2040	Elizabeth Marina
Ambient	Fri 01-Nov-2013	20:22:47	0.0306	NYCT
Ambient	Thu 31-Oct-2013	13:47:35	0.0700	Elizabeth Marina
Blast	Wed 30-Oct-2013	15:02:34	0.1000	Elizabeth Marina
Ambient	Tue 29-Oct-2013	13:17:33	0.1360	Elizabeth Marina



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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.

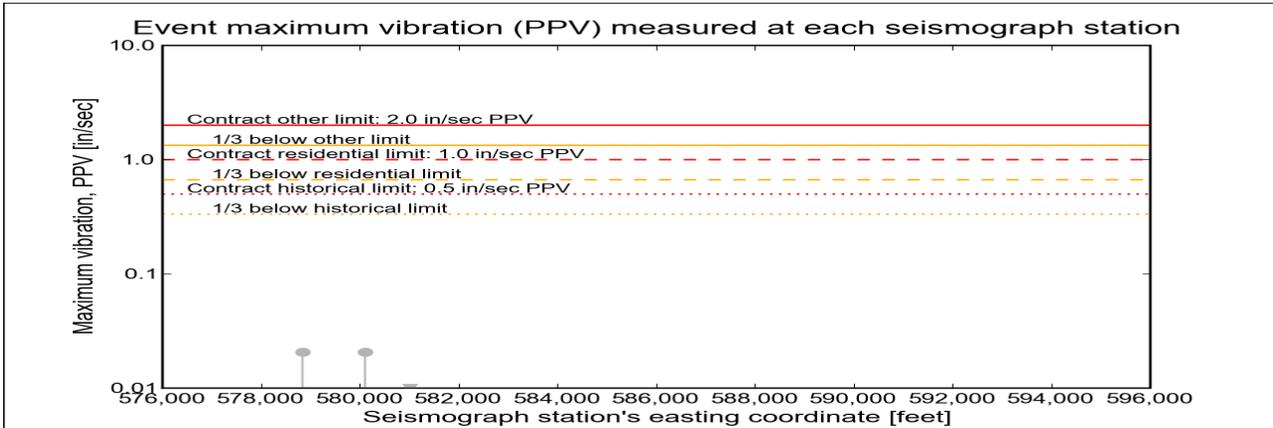
Click station for more information about the station.



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 03-Nov-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
Elizabeth Marina - e4s010	Sun 03-Nov-2013	11:47:33	0.0206	Ambient
Elizabeth Port - e4s009	Sun 03-Nov-2013	11:47:33	0.0206	Ambient
NYCT - e4s008	Sun 03-Nov-2013	17:37:45	0.00937	Ambient