



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 August 12 – August 18, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, August 12, through Sunday, August 18, 2013.

There were 9 blasts this week in the S-AK-3 project area.

We recorded background vibrations in the KVK-Buoy 10 project area and vibrations in the S-AK-3 project area. The maximum vibration recorded was 0.324 in/s recorded at Elizabeth Marina on August 17. 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. Dredge 55 operated in KVK-Buoy 10 on Monday. Drillboat Apache and Dredge 55 operated in S-AK-3 Monday through Sunday.

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:

- August 12
- August 13
- August 14
- August 15
- August 16
- August 17
- August 18

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 four active stations: New York Container Terminal (NYCT), Elizabethport, Elizabeth Marina, and Bayonne. The station locations are on each page.

Ground vibrations at NYCT were all below 0.11 in/s. Ground vibrations at Elizabethport were all below 0.10 in/s. Ground vibrations at Elizabeth Marina were all below 0.35 in/s. Ambient vibrations at Bayonne were all below 0.021 in/s (this station receives noise vibrations from vehicle traffic on W 1st Street). 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-017	2013-08-12 11:21	0,600 - 16,840	0.157
AK-018	2013-08-12 15:55	0,820 - 16,330	0.0906
AK-019	2013-08-13 11:27	0,680 - 16,830	0.212
AK-020	2013-08-13 16:00	0,830 - 16,330	0.0587
AK-021	2013-08-14 15:42	0,860 - 16,310	0.0731
AK-022	2013-08-15 09:05	0,740 - 16,790	0.156
AK-023	2013-08-15 16:45	0,820 - 16,470	0.0669
AK-024	2013-08-16 16:30	0,660 - 16,440	0.202
AK-025	2013-08-17 14:00	0,550 - 16,570	0.324



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[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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
2013-08-18 Sun	Dredge 55	579476	659953	
2013-08-18 Sun	Drillboat Apache	580114	660064	
2013-08-17 Sat	Dredge 55	595349	659833	
2013-08-17 Sat	Drillboat Apache	579392	660244	
2013-08-16 Fri	Dredge 55	578921	659987	
2013-08-16 Fri	Drillboat Apache	579531	660317	
2013-08-15 Thu	Dredge 55	579726	660027	
2013-08-15 Thu	Drillboat Apache	579144	659733	
2013-08-14 Wed	Dredge 55	579199	659843	
2013-08-14 Wed	Drillboat Apache	579670	660026	
2013-08-13 Tue	Dredge 55	579698	660099	
2013-08-13 Tue	Drillboat Apache	579116	659806	
2013-08-12 Mon	Dredge 55	579726	660063	
2013-08-12 Mon	Drillboat Apache	579061	659733	



Home Event Summary Stations: Dredges History Links

Arthur Kill Blast Vibration Summary

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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.

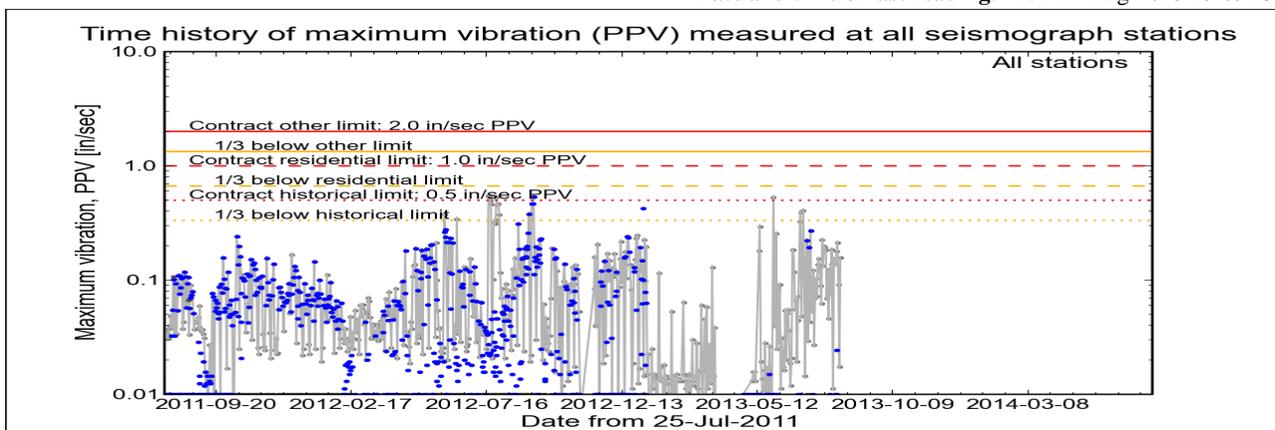
Click station for station information or click channel for event summary.



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 12-Aug-2013 15:05:19



(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 12-Aug-2013	15:05:19	0.1570	Elizabeth Marina
Ambient	Sun 11-Aug-2013	02:46:44	0.0175	Bayonne
Ambient	Sat 10-Aug-2013	18:50:19	0.0906	Elizabeth Marina
Ambient	Fri 09-Aug-2013	18:53:23	0.2110	Elizabeth Marina
Ambient	Thu 08-Aug-2013	13:02:35	0.1790	Elizabeth Marina
Ambient	Wed 07-Aug-2013	15:17:36	0.1380	Elizabeth Marina



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[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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.

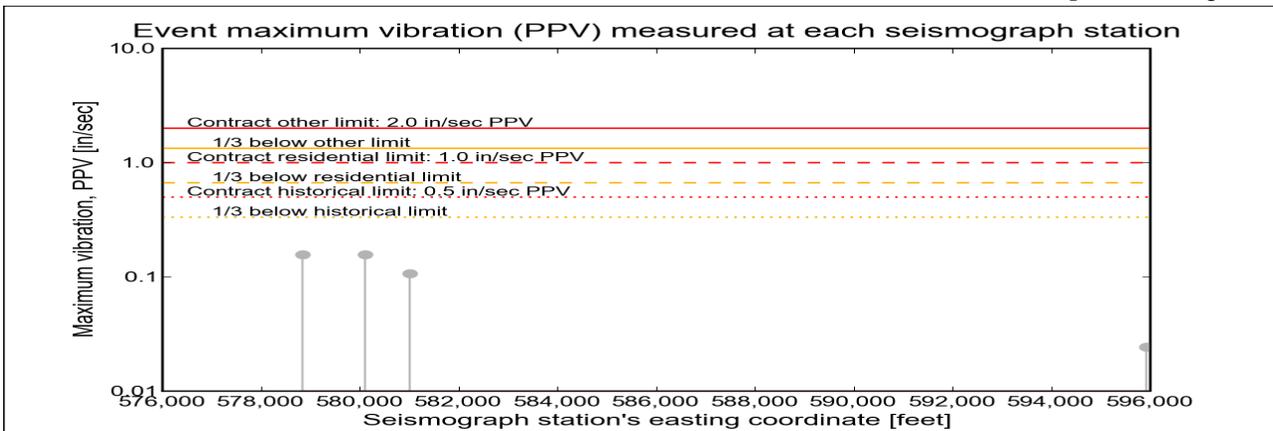
Click station for more information about the station.



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 12-Aug-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 12-Aug-2013	15:05:19	0.157	Ambient
Elizabeth Port - e4s009	Mon 12-Aug-2013	15:05:19	0.157	Ambient
NYCT - e4s008	Mon 12-Aug-2013	19:40:30	0.107	Ambient
Bayonne - e4s011	Mon 12-Aug-2013	23:37:30	0.0244	Ambient



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Home Event Summary Stations: Dredges History Links

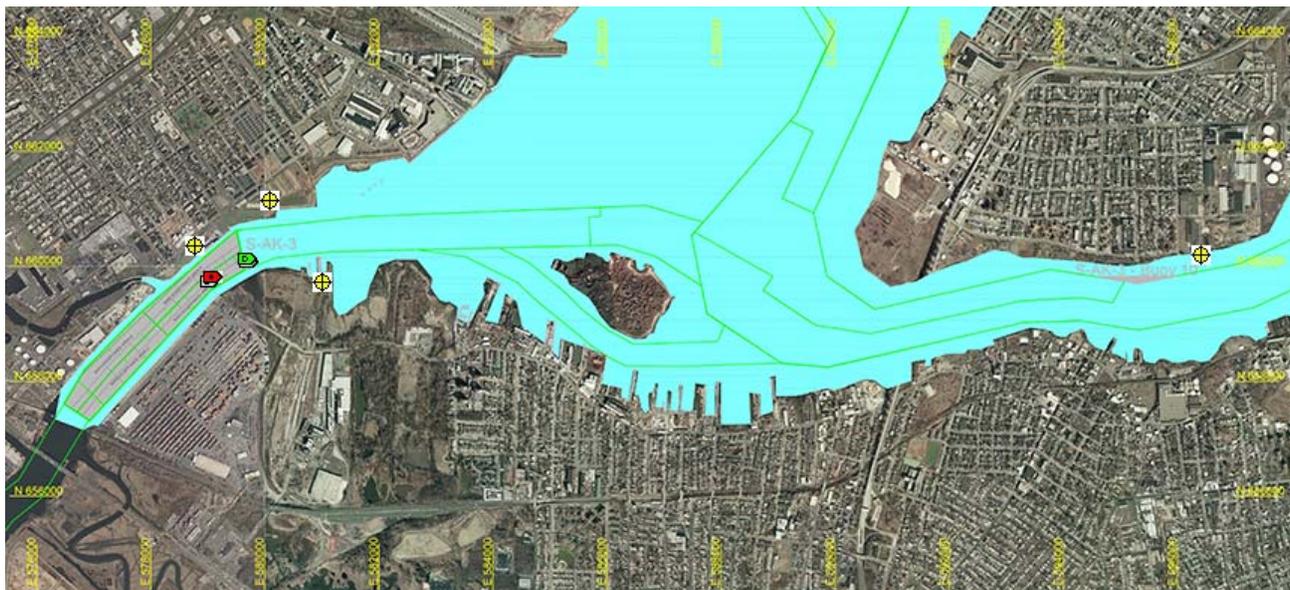
Arthur Kill Blast Vibration Summary

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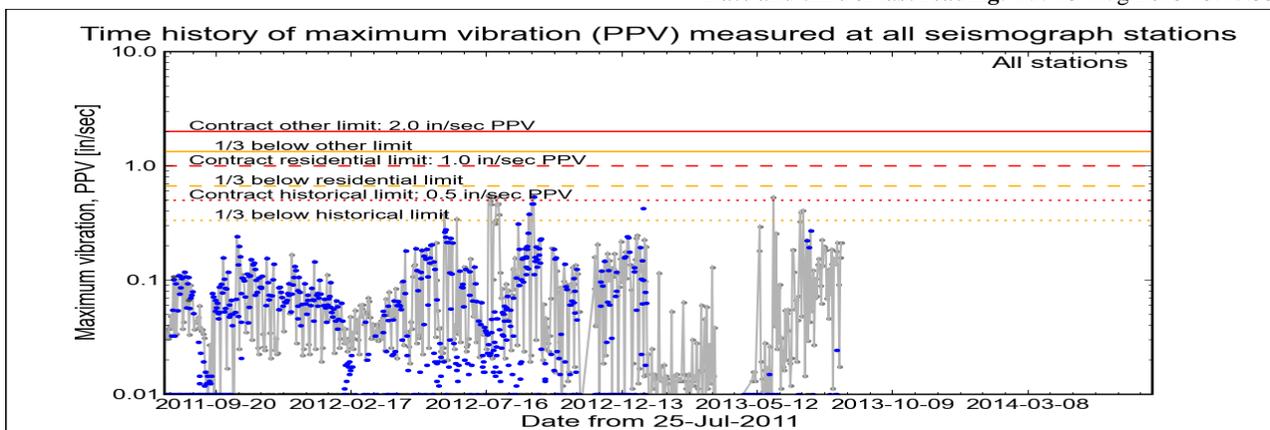
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Latest Event Summary

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Date and time of last reading: Tue 13-Aug-2013 15:17:35



(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	Tue 13-Aug-2013	15:17:35	0.2120	Elizabeth Marina
Ambient	Mon 12-Aug-2013	15:05:19	0.1570	Elizabeth Marina
Ambient	Sun 11-Aug-2013	02:46:44	0.0175	Bayonne
Ambient	Sat 10-Aug-2013	18:50:19	0.0906	Elizabeth Marina
Ambient	Fri 09-Aug-2013	18:53:23	0.2110	Elizabeth Marina
Ambient	Thu 08-Aug-2013	13:02:35	0.1790	Elizabeth Marina



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[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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.

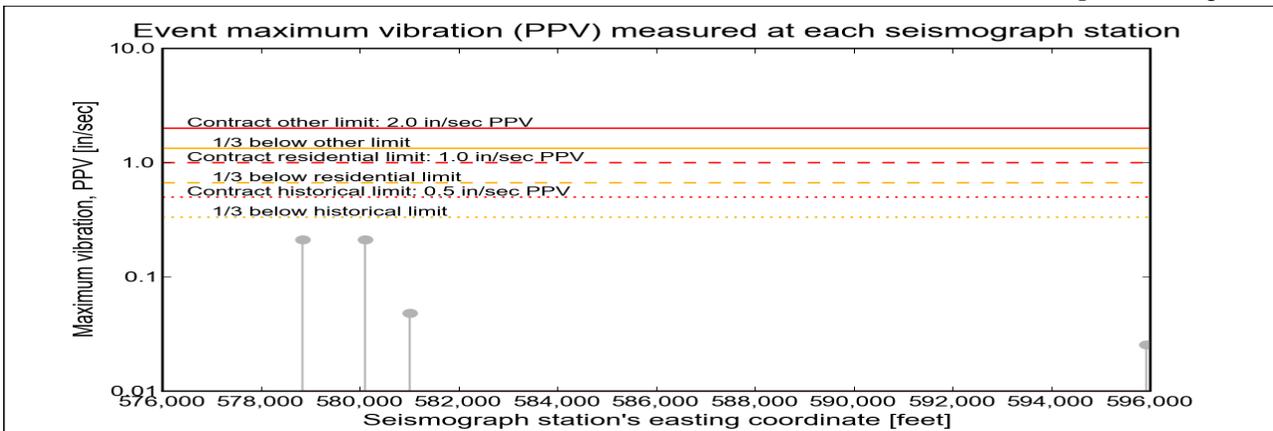
Click station for more information about the station.



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: Tue 13-Aug-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	Tue 13-Aug-2013	15:17:35	0.212	Ambient
Elizabeth Port - e4s009	Tue 13-Aug-2013	15:17:35	0.212	Ambient
NYCT - e4s008	Tue 13-Aug-2013	15:22:46	0.0481	Ambient
Bayonne - e4s011	Tue 13-Aug-2013	01:16:44	0.0256	Ambient



Home Event Summary Stations: Dredges History Links

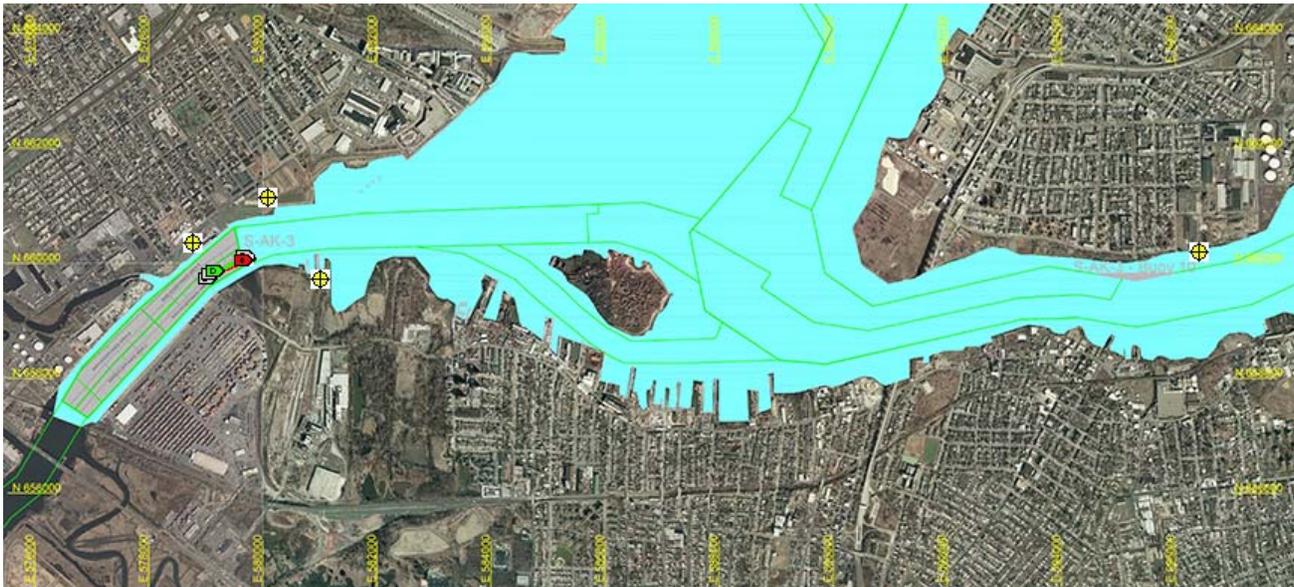
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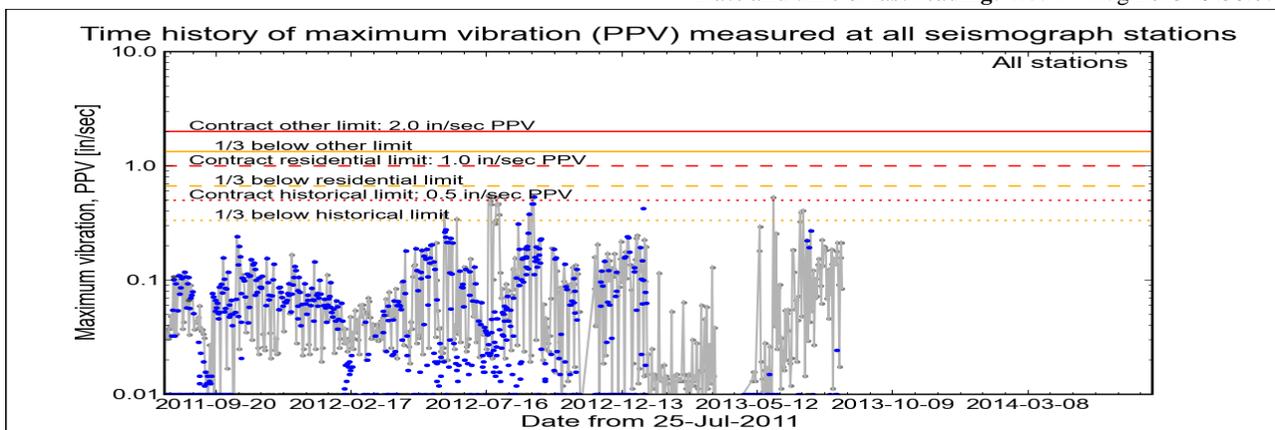
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Date and time of last reading: Wed 14-Aug-2013 19:38:07



(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 14-Aug-2013	19:38:07	0.0837	NYCT
Ambient	Tue 13-Aug-2013	15:17:35	0.2120	Elizabeth Marina
Ambient	Mon 12-Aug-2013	15:05:19	0.1570	Elizabeth Marina
Ambient	Sun 11-Aug-2013	02:46:44	0.0175	Bayonne
Ambient	Sat 10-Aug-2013	18:50:19	0.0906	Elizabeth Marina
Ambient	Fri 09-Aug-2013	18:53:23	0.2110	Elizabeth Marina



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[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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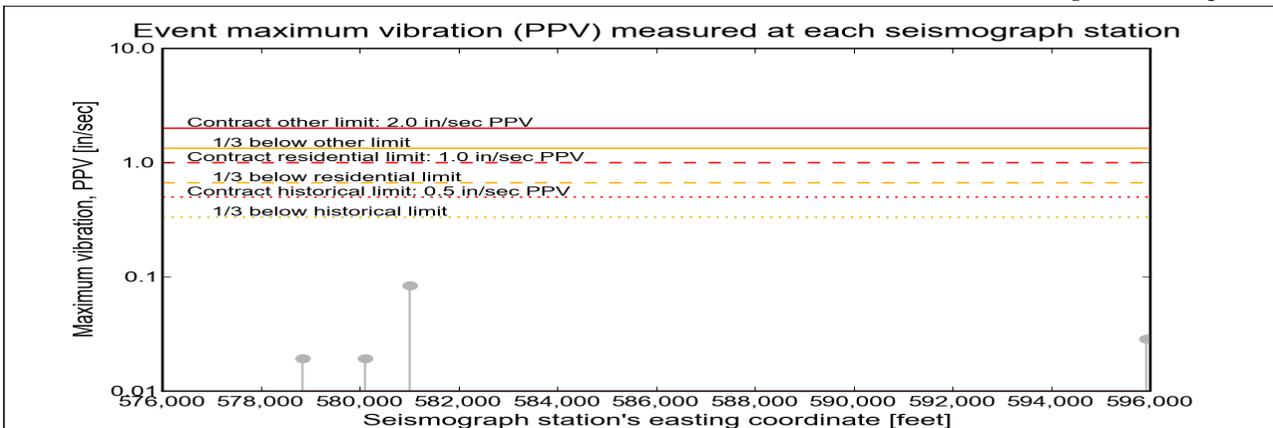
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Date of reading: Wed 14-Aug-2013



(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	Wed 14-Aug-2013	22:17:33	0.0194	Ambient
Elizabeth Port - e4s009	Wed 14-Aug-2013	22:17:33	0.0194	Ambient
NYCT - e4s008	Wed 14-Aug-2013	19:38:07	0.0837	Ambient
Bayonne - e4s011	Wed 14-Aug-2013	00:18:38	0.0287	Ambient



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Home Event Summary Stations: Dredges History Links

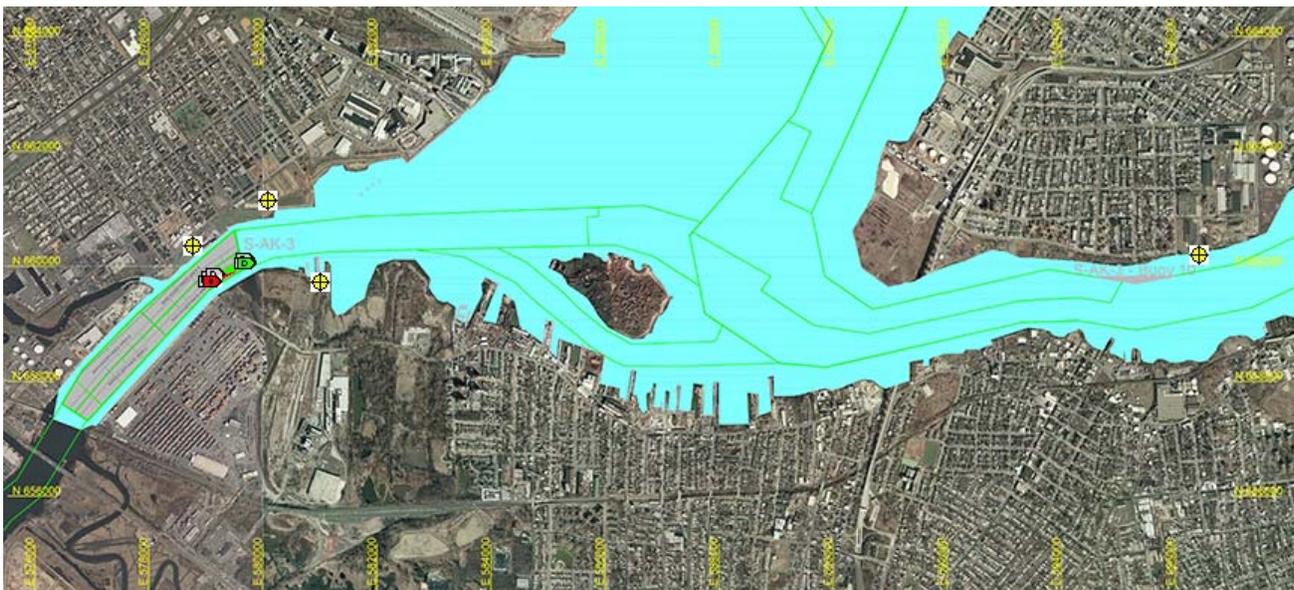
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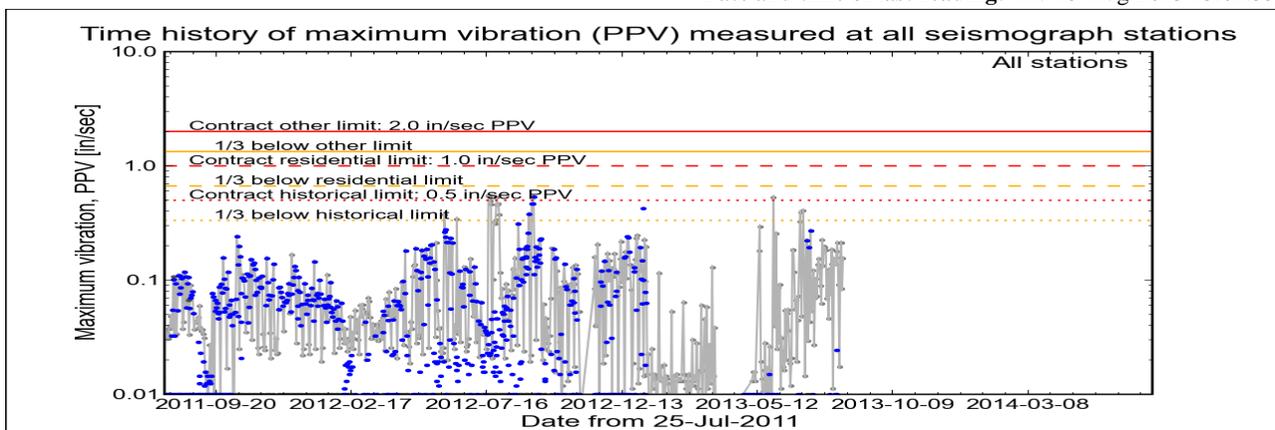
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Date and time of last reading: Thu 15-Aug-2013 13:02:35



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

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Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Thu 15-Aug-2013	13:02:35	0.1560	Elizabeth Marina
Ambient	Wed 14-Aug-2013	19:38:07	0.0837	NYCT
Ambient	Tue 13-Aug-2013	15:17:35	0.2120	Elizabeth Marina
Ambient	Mon 12-Aug-2013	15:05:19	0.1570	Elizabeth Marina
Ambient	Sun 11-Aug-2013	02:46:44	0.0175	Bayonne
Ambient	Sat 10-Aug-2013	18:50:19	0.0906	Elizabeth Marina



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[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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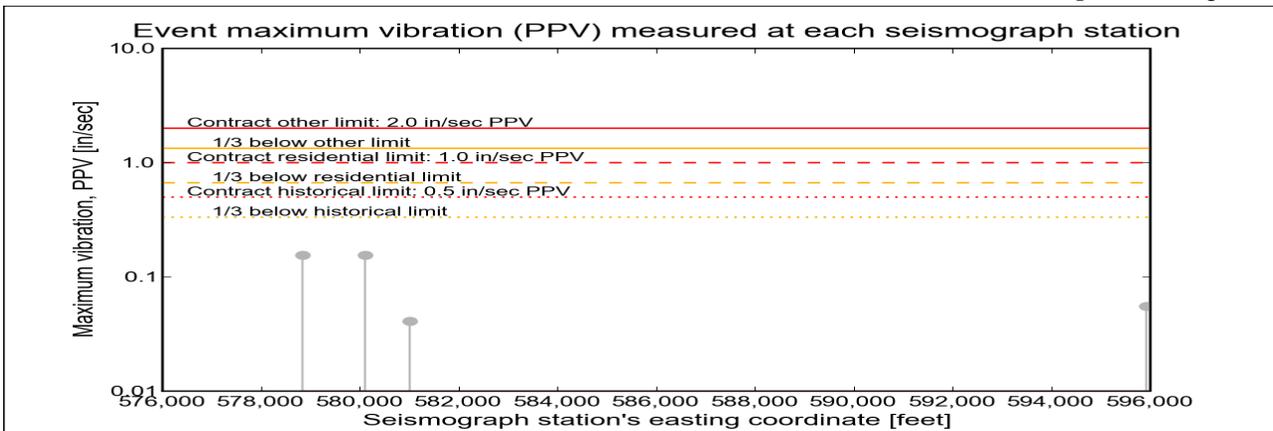
Click station for more information about the station.



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Date of reading: Thu 15-Aug-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	Thu 15-Aug-2013	13:02:35	0.156	Ambient
Elizabeth Port - e4s009	Thu 15-Aug-2013	13:02:35	0.156	Ambient
NYCT - e4s008	Thu 15-Aug-2013	12:52:46	0.0412	Ambient
Bayonne - e4s011	Thu 15-Aug-2013	00:46:24	0.0556	Ambient



Home Event Summary Stations: Dredges History Links

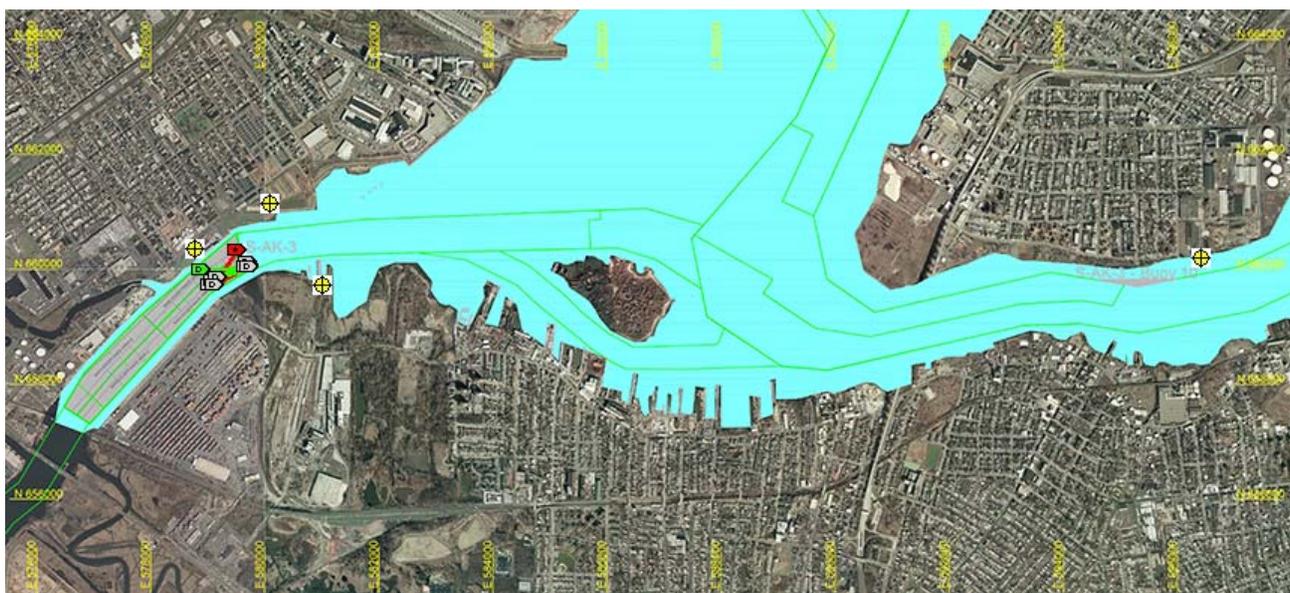
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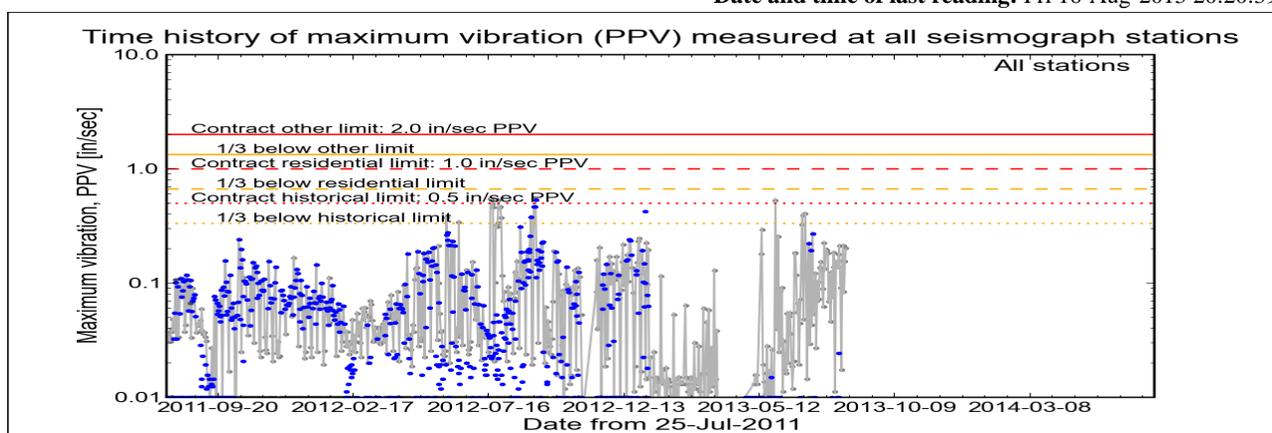
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Date and time of last reading: Fri 16-Aug-2013 20:20:39



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

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Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Fri 16-Aug-2013	20:20:39	0.2020	Elizabeth Marina
Ambient	Thu 15-Aug-2013	13:02:35	0.1560	Elizabeth Marina
Ambient	Wed 14-Aug-2013	19:38:07	0.0837	NYCT
Ambient	Tue 13-Aug-2013	15:17:35	0.2120	Elizabeth Marina
Ambient	Mon 12-Aug-2013	15:05:19	0.1570	Elizabeth Marina
Ambient	Sun 11-Aug-2013	02:46:44	0.0175	Bavonne



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[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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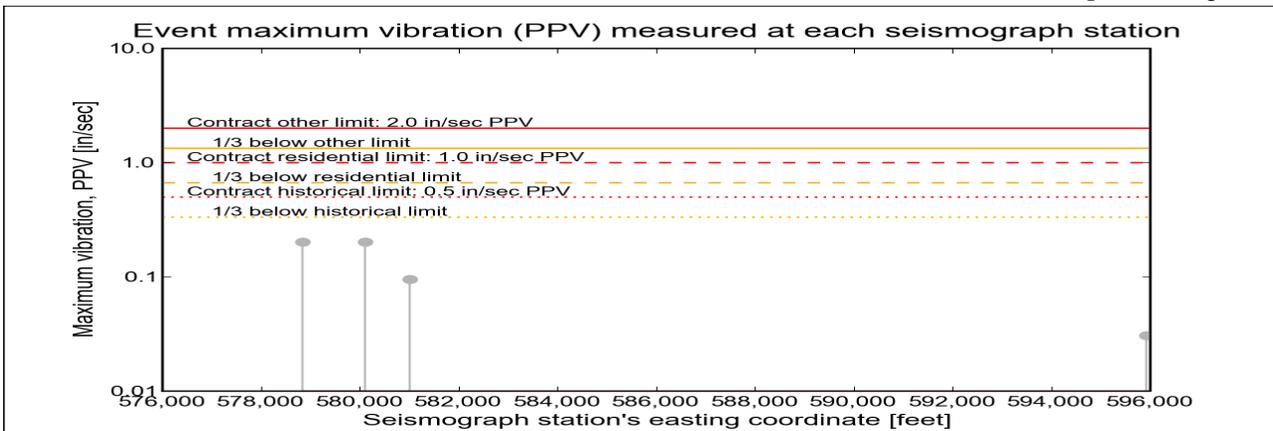
Click station for more information about the station.



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: Fri 16-Aug-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 16-Aug-2013	20:20:39	0.202	Ambient
Elizabeth Port - e4s009	Fri 16-Aug-2013	20:20:39	0.202	Ambient
NYCT - e4s008	Fri 16-Aug-2013	20:23:06	0.095	Ambient
Bayonne - e4s011	Fri 16-Aug-2013	18:37:23	0.0306	Ambient



Home Event Summary Stations: Dredges History Links

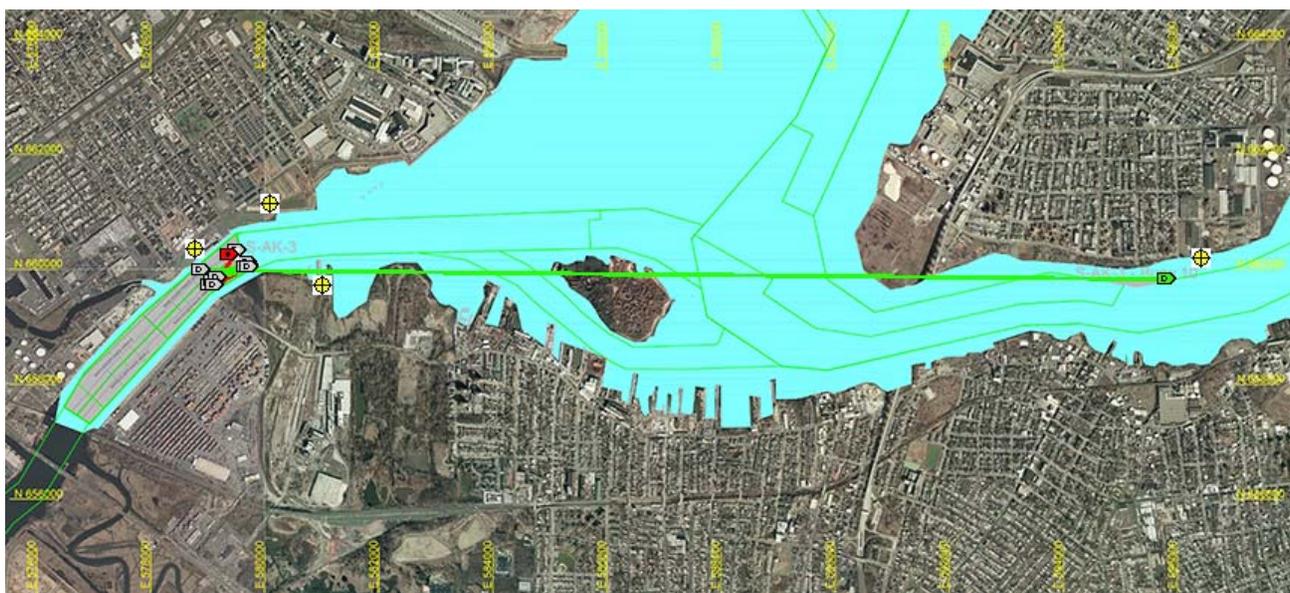
Arthur Kill Blast Vibration Summary

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.

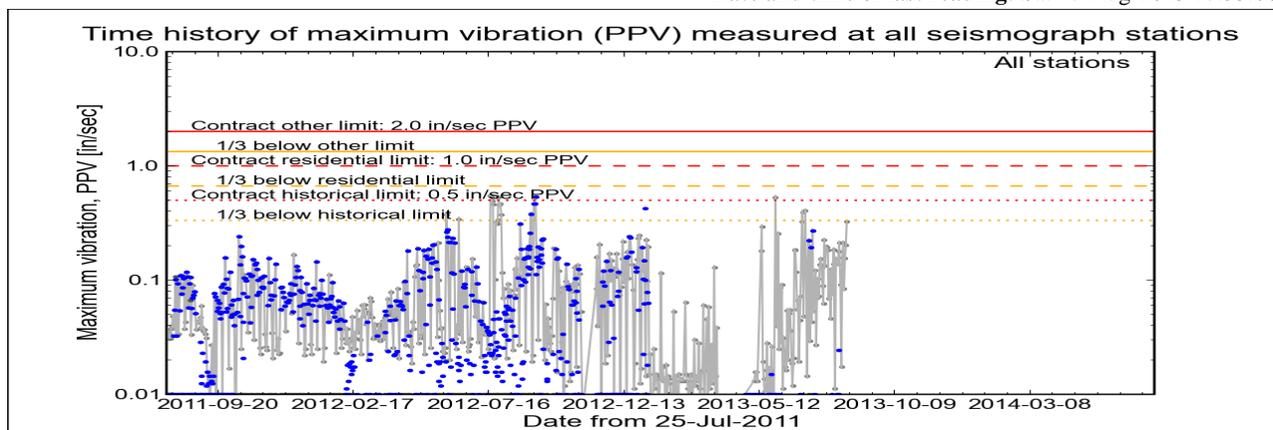
Click station for station information or click channel for event summary.



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 17-Aug-2013 17:53:06



(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 17-Aug-2013	17:53:06	0.3240	Elizabeth Marina
Ambient	Fri 16-Aug-2013	20:20:39	0.2020	Elizabeth Marina
Ambient	Thu 15-Aug-2013	13:02:35	0.1560	Elizabeth Marina
Ambient	Wed 14-Aug-2013	19:38:07	0.0837	NYCT
Ambient	Tue 13-Aug-2013	15:17:35	0.2120	Elizabeth Marina
Ambient	Mon 12-Aug-2013	15:05:19	0.1570	Elizabeth Marina



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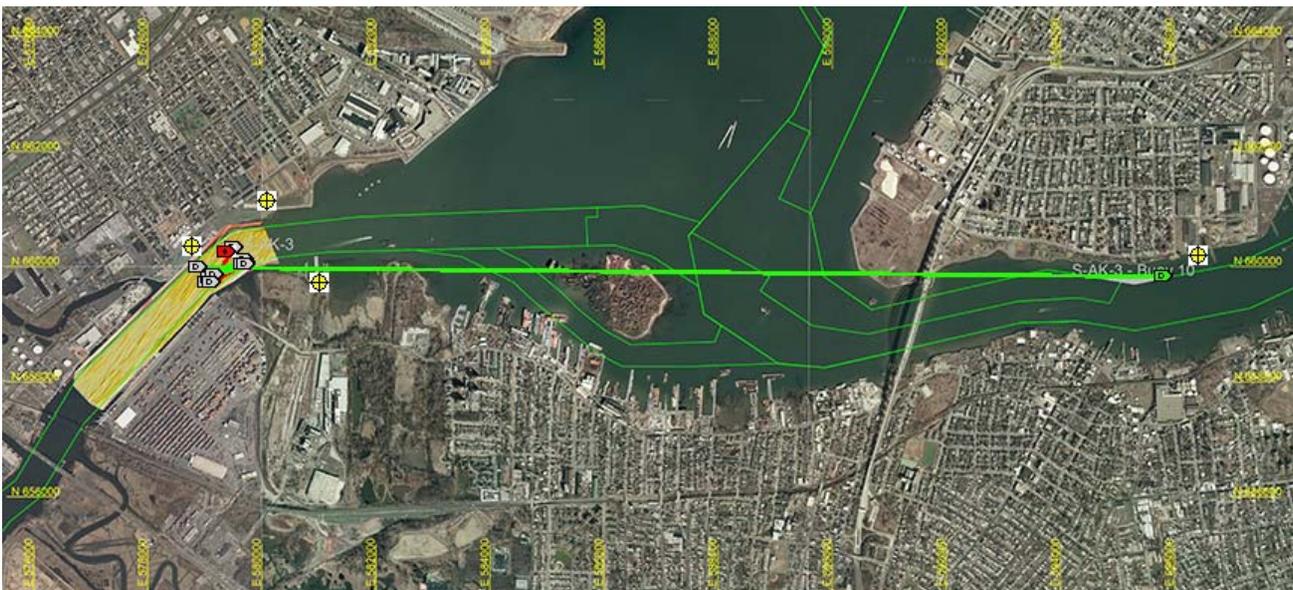
[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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.

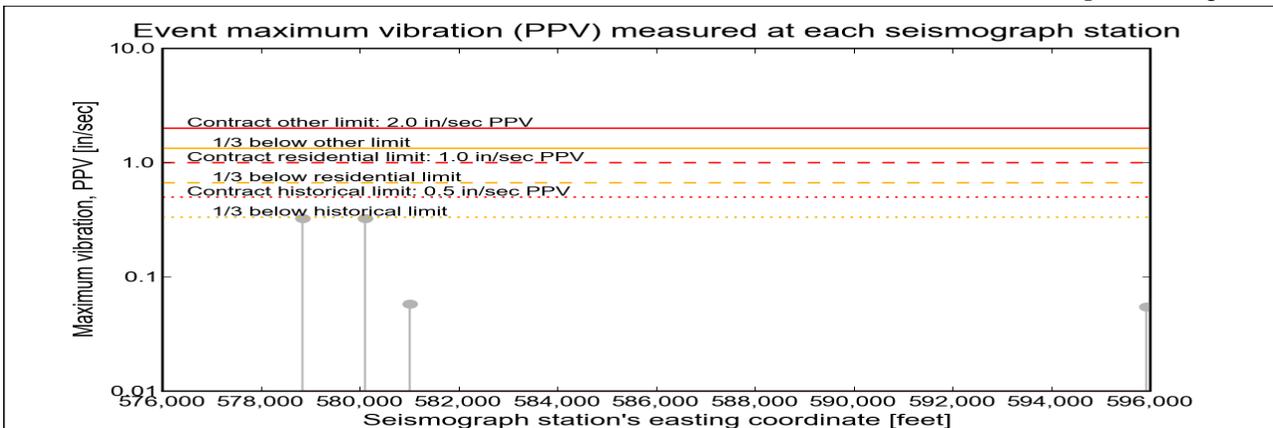
Click station for more information about the station.



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 17-Aug-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 17-Aug-2013	17:53:06	0.324	Ambient
Elizabeth Port - e4s009	Sat 17-Aug-2013	17:53:06	0.324	Ambient
NYCT - e4s008	Sat 17-Aug-2013	17:52:46	0.0581	Ambient
Bayonne - e4s011	Sat 17-Aug-2013	21:46:46	0.055	Ambient



Home Event Summary Stations: Dredges History Links

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.

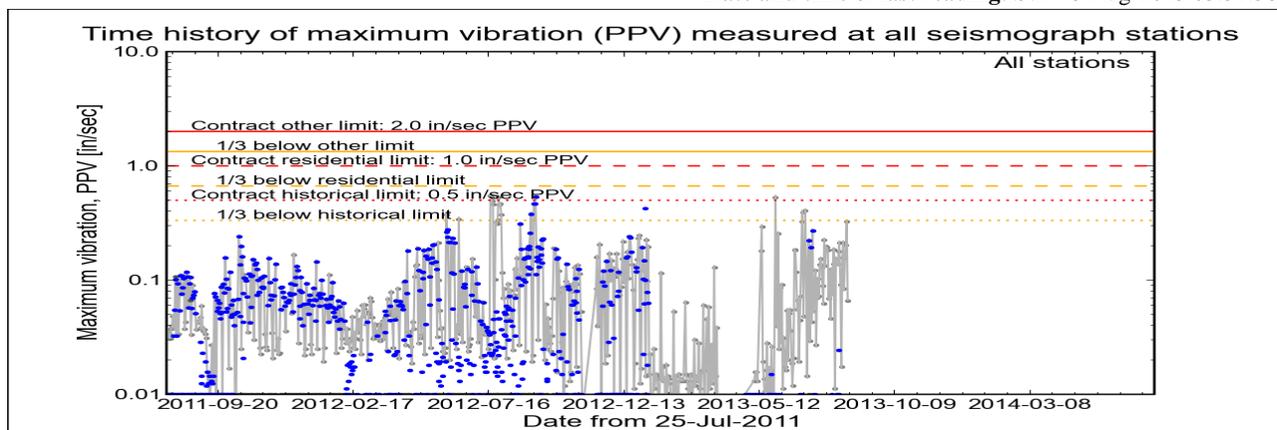
Click station for station information or click channel for event summary.



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 18-Aug-2013 03:31:58



(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 18-Aug-2013	03:31:58	0.0662	Bayonne
Ambient	Sat 17-Aug-2013	17:53:06	0.3240	Elizabeth Marina
Ambient	Fri 16-Aug-2013	20:20:39	0.2020	Elizabeth Marina
Ambient	Thu 15-Aug-2013	13:02:35	0.1560	Elizabeth Marina
Ambient	Wed 14-Aug-2013	19:38:07	0.0837	NYCT
Ambient	Tue 13-Aug-2013	15:17:35	0.2120	Elizabeth Marina



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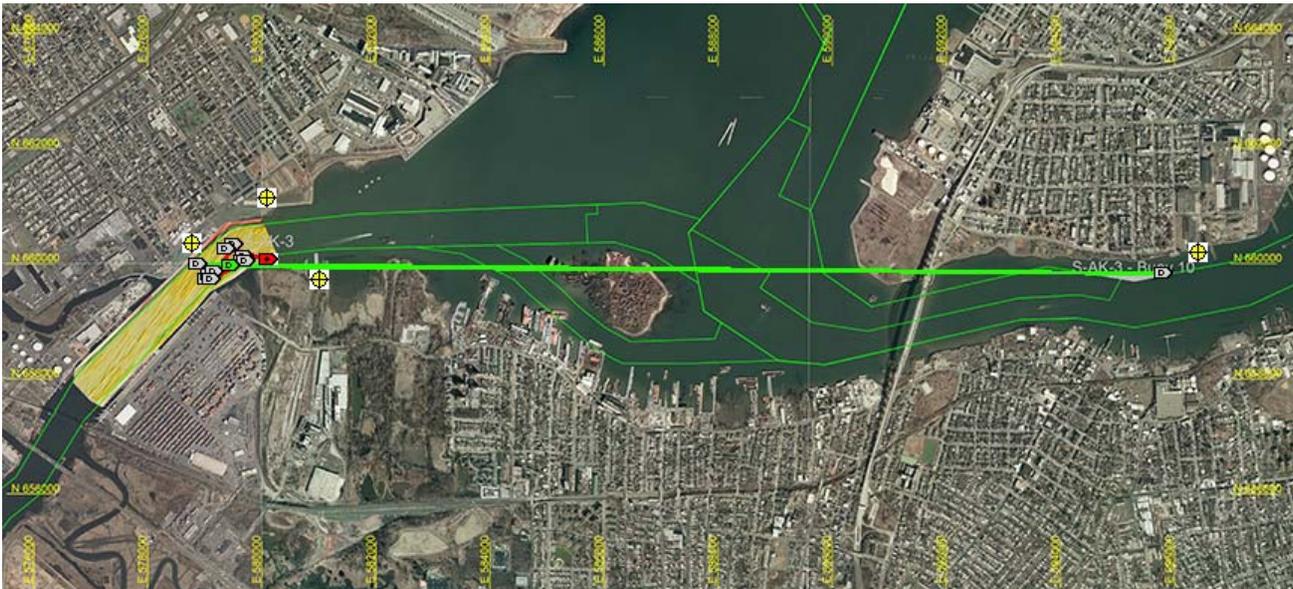
[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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.

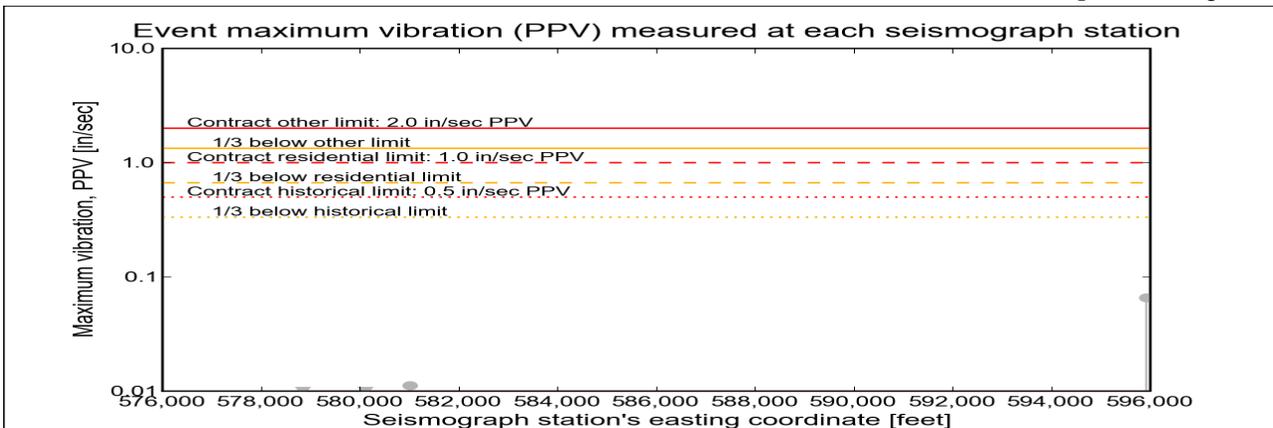
Click station for more information about the station.



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 18-Aug-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 18-Aug-2013	01:47:35	0.005	Ambient
Elizabeth Port - e4s009	Sun 18-Aug-2013	01:47:35	0.005	Ambient
NYCT - e4s008	Sun 18-Aug-2013	04:37:46	0.0112	Ambient
Bayonne - e4s011	Sun 18-Aug-2013	03:31:58	0.0662	Ambient