



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 July 01 – July 07, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, July 01, through Sunday, July 07, 2013.

There were 5 blasts this week in the KVK-Buoy 10 project area.

We recorded vibrations in the KVK-Buoy 10 project area and background vibrations in the S-AK-3 project area. The maximum vibration recorded was 0.405 in/s recorded at Bayonne on July 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 Dredge 55 operated in KVK-Buoy 10 Monday through Sunday (no work was done on July 04). Dredge 55 also operated in S-AK-3 on 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:

July 01
July 02
July 03
July 04
July 05
July 06
July 07

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.

Ambient ground vibrations at NYCT were all below 0.02 in/s. Ambient vibrations at Elizabethport were all below 0.02 in/s. Ambient vibrations at Elizabeth Marina were all below 0.02 in/s. Vibrations at Bayonne were all below 0.41 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)
KVK-006	2013-07-01 09:29	0,910 - 0,910	0.144
KVK-007	2013-07-02 15:25	0,520 - 0,520	0.405
KVK-008	2013-07-03 17:00	0,920 - 0,920	0.135
KVK-009	2013-07-05 12:13	0,890 - 0,890	0.136
KVK-010	2013-07-06 14:14	0,500 - 0,500	0.222



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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
2013-07-07 Sun	Dredge 55	579641	660646	
2013-07-07 Sun	Drillboat Apache	595848	659980	
2013-07-06 Sat	Dredge 55	594961	659795	
2013-07-06 Sat	Drillboat Apache	595516	659760	
2013-07-06 Sat	Drillboat Kraken	595571	659827	
2013-07-05 Fri	Dredge 55	595599	659797	
2013-07-05 Fri	Drillboat Apache	595044	659795	
2013-07-04 Thu	Dredge 55	595266	659796	
2013-07-04 Thu	Drillboat Apache	594655	659866	
2013-07-03 Wed				No Activity
2013-07-02 Tue	Dredge 55	587832	659219	
2013-07-02 Tue	Drillboat Apache	595516	659797	
2013-07-01 Mon	Dredge 55	595682	659798	
2013-07-01 Mon	Drillboat Apache	595045	659722	



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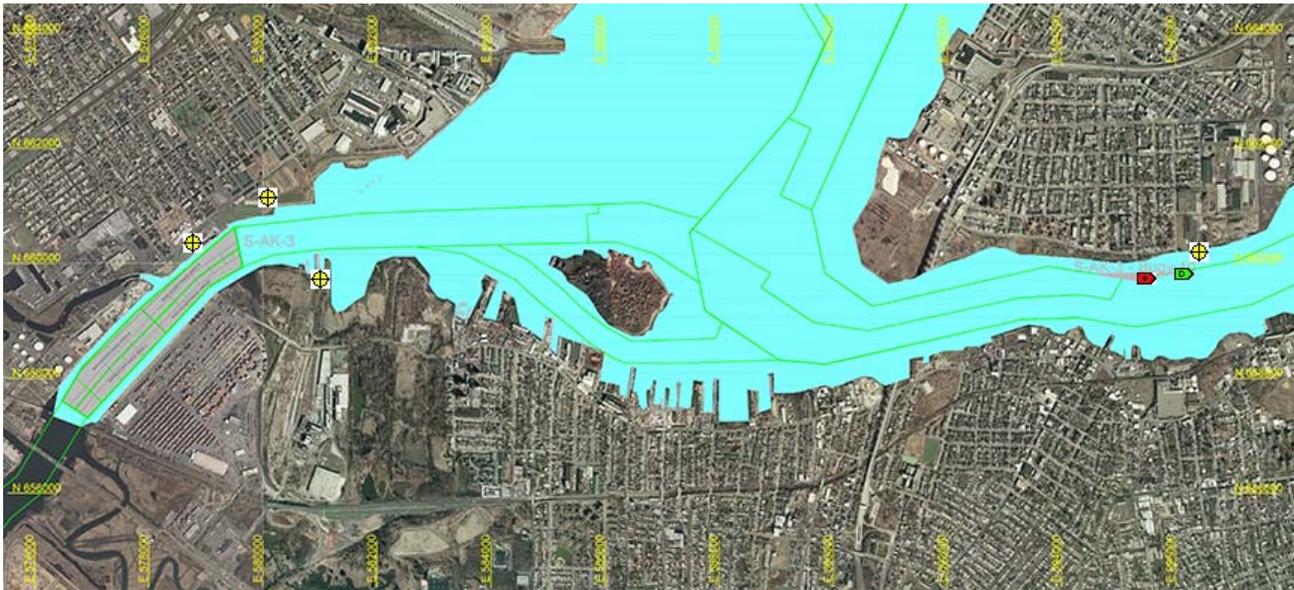
Arthur Kill Blast Vibration Summary

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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.

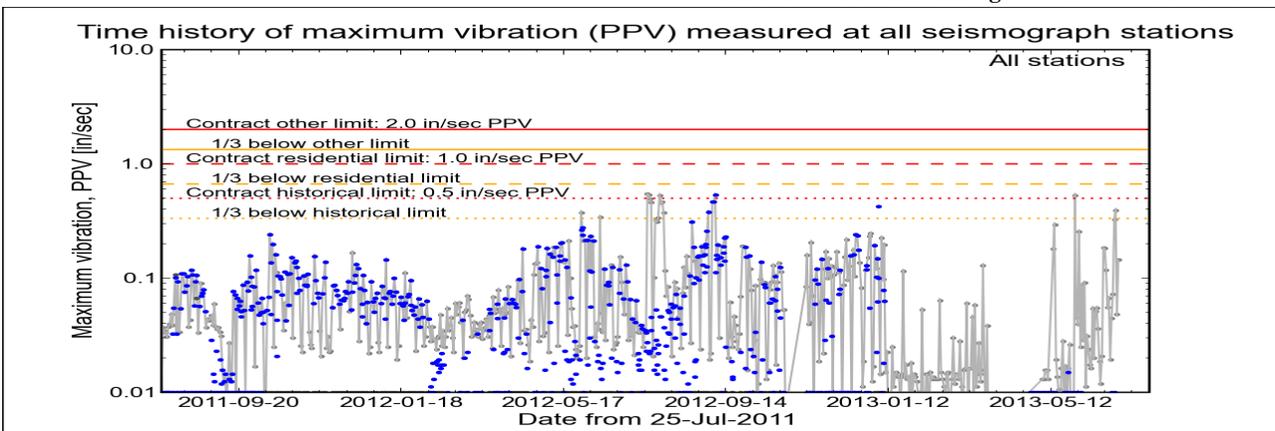
Click station for station information or click channel for event summary.



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 01-Jul-2013 13:16:43



(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 01-Jul-2013	13:16:43	0.1440	Bayonne
Ambient	Sun 30-Jun-2013	19:31:45	0.0481	Bayonne
Ambient	Sat 29-Jun-2013	15:31:44	0.3930	Bayonne
Ambient	Fri 28-Jun-2013	13:16:47	0.3260	Bayonne
Ambient	Thu 27-Jun-2013	11:33:27	0.0725	Elizabeth Marina
Ambient	Wed 26-Jun-2013	03:01:45	0.0444	Bavonne



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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.

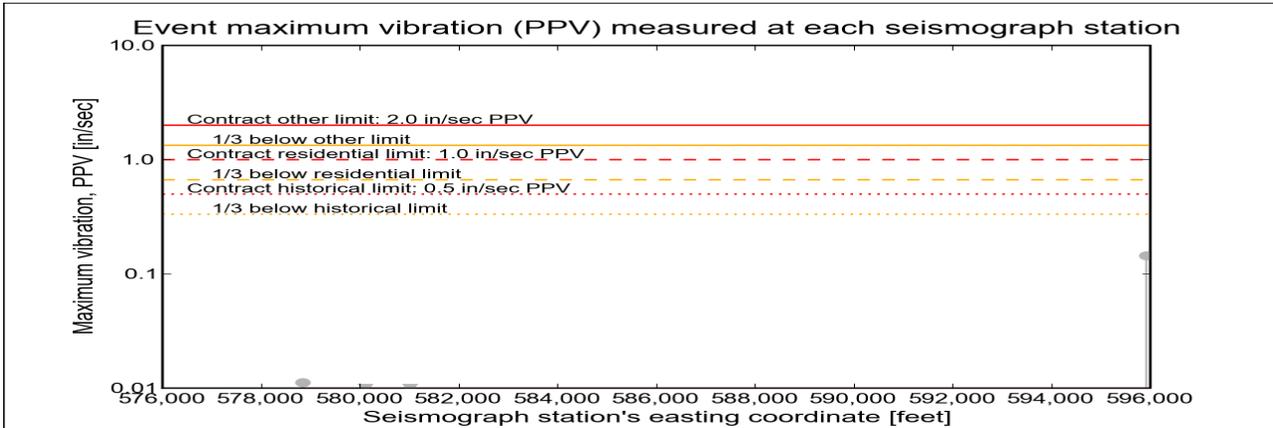
Click station for more information about the station.



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 01-Jul-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 01-Jul-2013	17:32:35	0.0112	Ambient
Elizabeth Port - e4s009	Mon 01-Jul-2013	00:16:44	0.00375	Ambient
NYCT - e4s008	Mon 01-Jul-2013	11:37:43	0.00937	Ambient
Bayonne - e4s011	Mon 01-Jul-2013	13:16:43	0.144	Ambient



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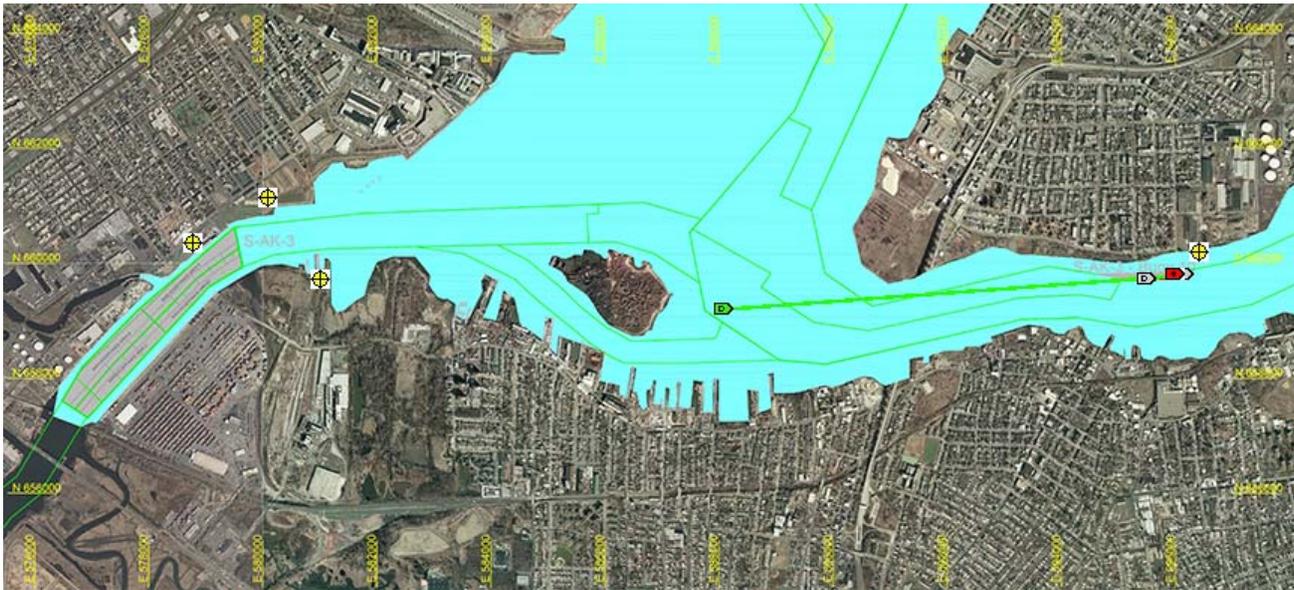
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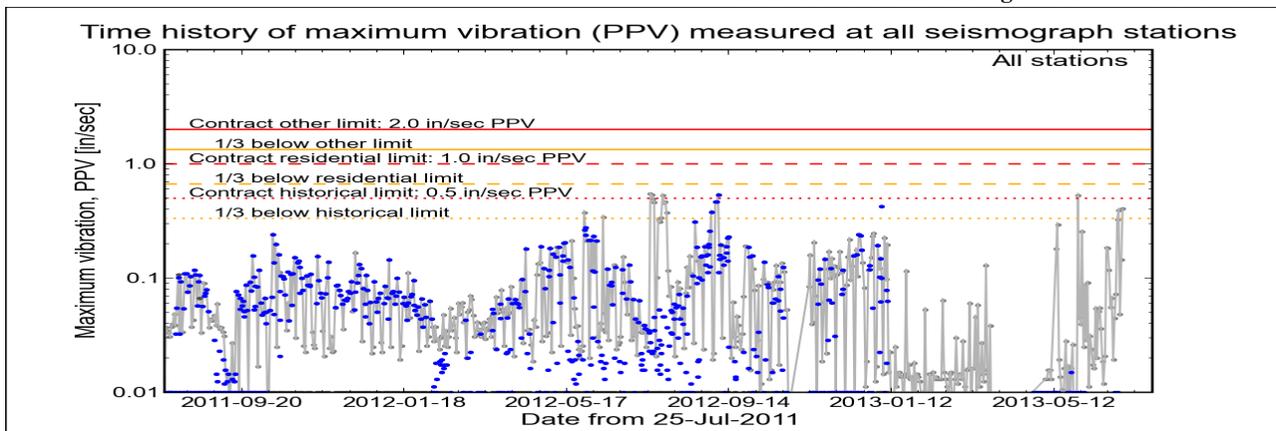
Click station for station information or click channel for event summary.



Latest Event Summary

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Date and time of last reading: Tue 02-Jul-2013 19:16:43



(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 02-Jul-2013	19:16:43	0.4050	Bayonne
Ambient	Mon 01-Jul-2013	13:16:43	0.1440	Bayonne
Ambient	Sun 30-Jun-2013	19:31:45	0.0481	Bayonne
Ambient	Sat 29-Jun-2013	15:31:44	0.3930	Bayonne
Ambient	Fri 28-Jun-2013	13:16:47	0.3260	Bayonne
Ambient	Thu 27-Jun-2013	11:33:27	0.0725	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.

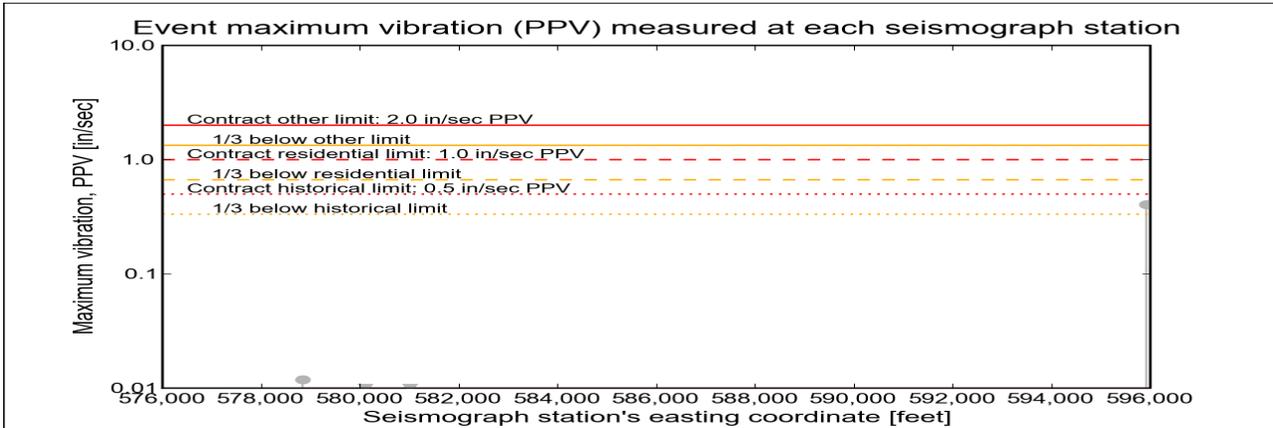
Click station for more information about the station.



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: Tue 02-Jul-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 02-Jul-2013	22:47:34	0.0119	Ambient
Elizabeth Port - e4s009	Tue 02-Jul-2013	23:01:48	0.00375	Ambient
NYCT - e4s008	Tue 02-Jul-2013	15:07:47	0.00375	Ambient
Bayonne - e4s011	Tue 02-Jul-2013	19:16:43	0.405	Ambient



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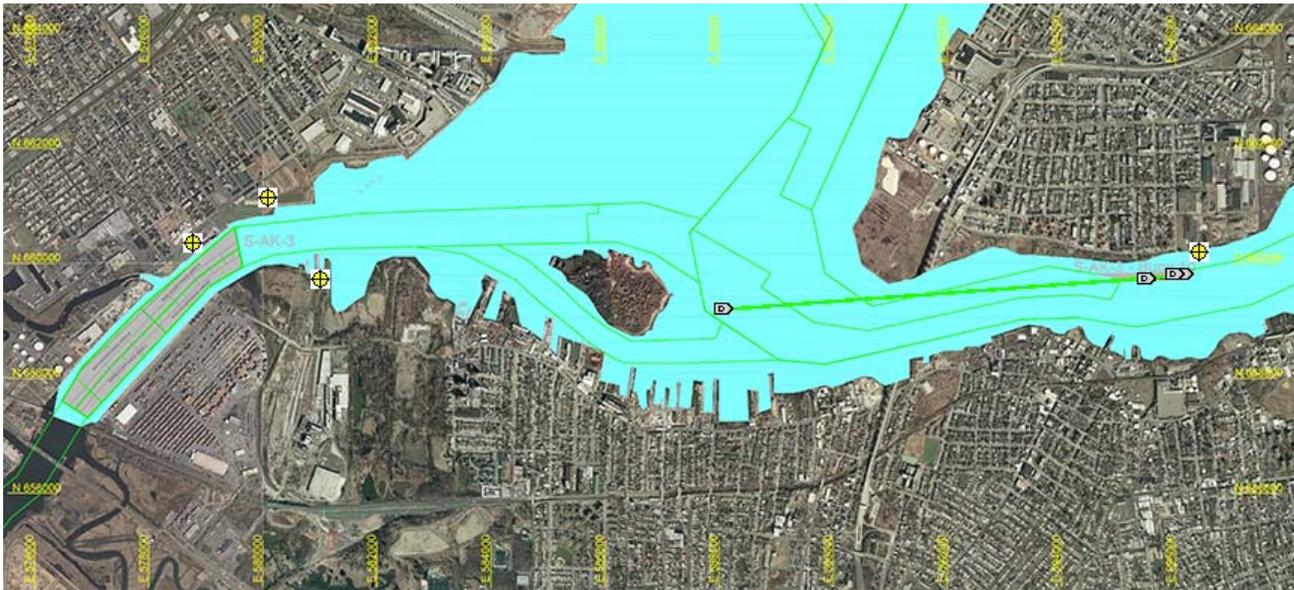
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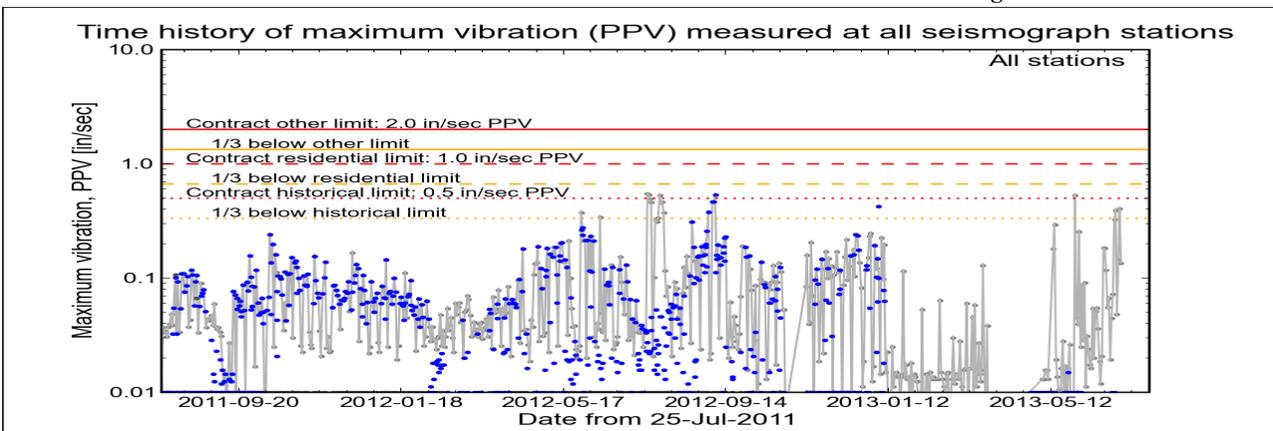
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Date and time of last reading: Wed 03-Jul-2013 20:47:38



(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 03-Jul-2013	20:47:38	0.1350	Bayonne
Ambient	Tue 02-Jul-2013	19:16:43	0.4050	Bayonne
Ambient	Mon 01-Jul-2013	13:16:43	0.1440	Bayonne
Ambient	Sun 30-Jun-2013	19:31:45	0.0481	Bayonne
Ambient	Sat 29-Jun-2013	15:31:44	0.3930	Bayonne
Ambient	Fri 28-Jun-2013	13:16:47	0.3260	Bavonne



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Arthur Kill Blasting Event Summary

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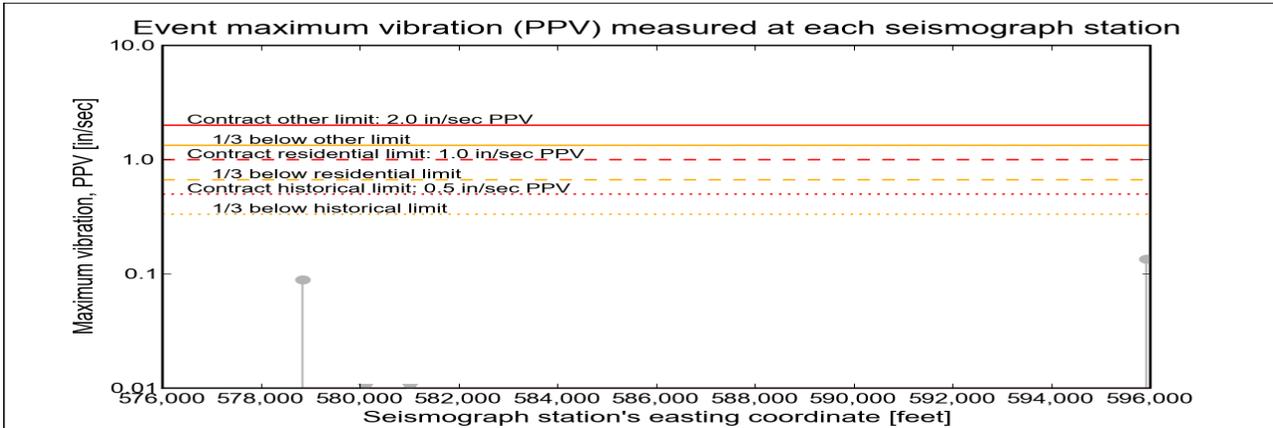
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Date of reading: Wed 03-Jul-2013



(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 03-Jul-2013	22:20:56	0.0887	Ambient
Elizabeth Port - e4s009	Wed 03-Jul-2013	16:01:44	0.00437	Ambient
NYCT - e4s008	Wed 03-Jul-2013	18:08:32	0.00687	Ambient
Bayonne - e4s011	Wed 03-Jul-2013	20:47:38	0.135	Ambient



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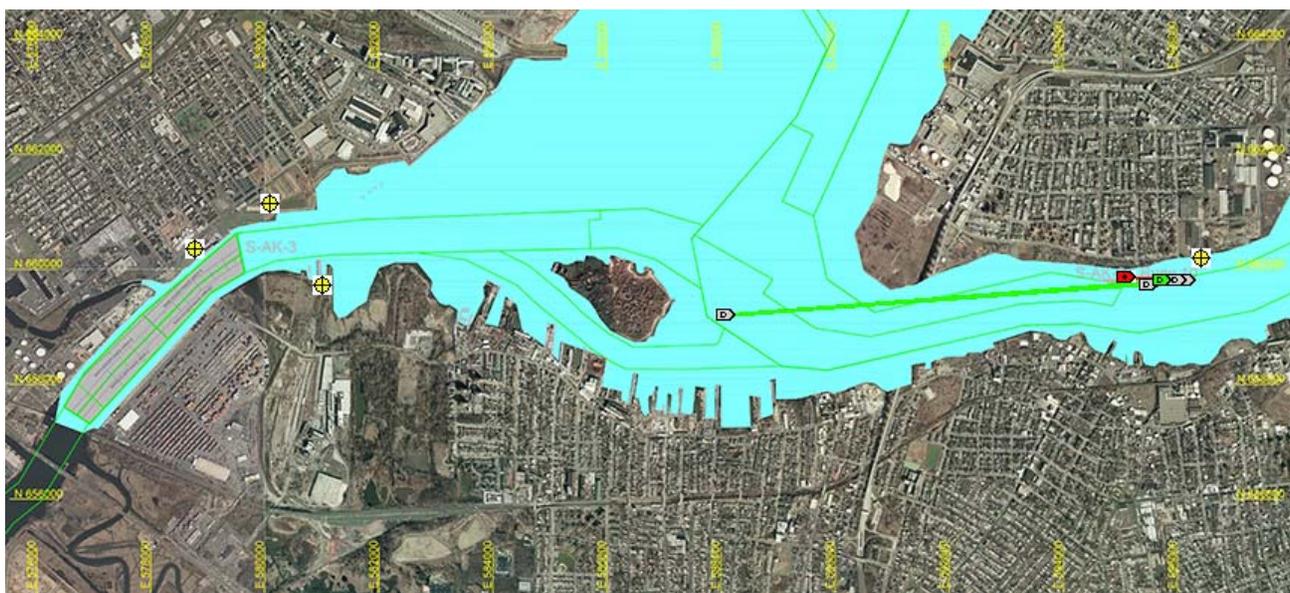
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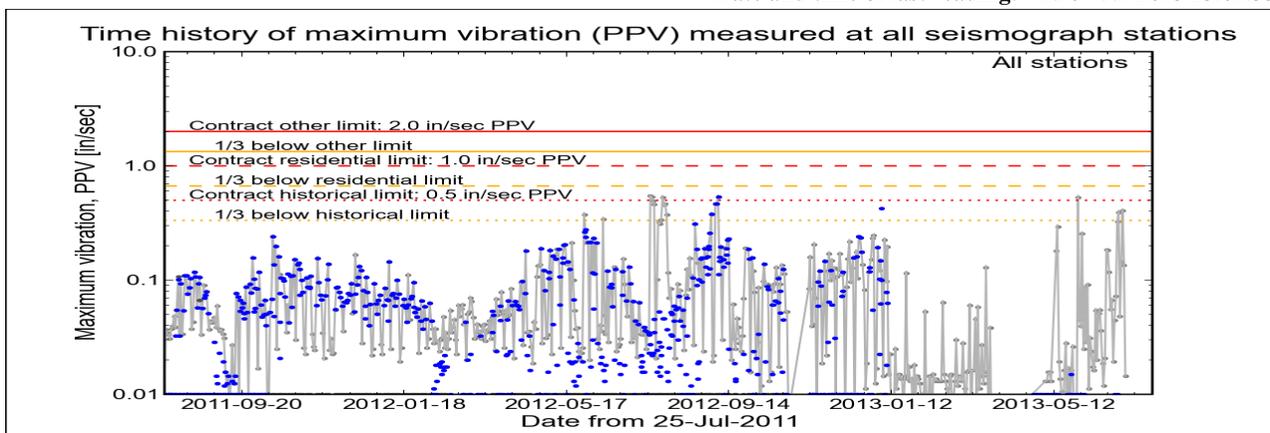
Click station for station information or click channel for event summary.



Latest Event Summary

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Date and time of last reading: Thu 04-Jul-2013 23:02:35



(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 04-Jul-2013	23:02:35	0.0144	Elizabeth Marina
Ambient	Wed 03-Jul-2013	20:47:38	0.1350	Bayonne
Ambient	Tue 02-Jul-2013	19:16:43	0.4050	Bayonne
Ambient	Mon 01-Jul-2013	13:16:43	0.1440	Bayonne
Ambient	Sun 30-Jun-2013	19:31:45	0.0481	Bayonne
Ambient	Sat 29-Jun-2013	15:31:44	0.3930	Bavonne



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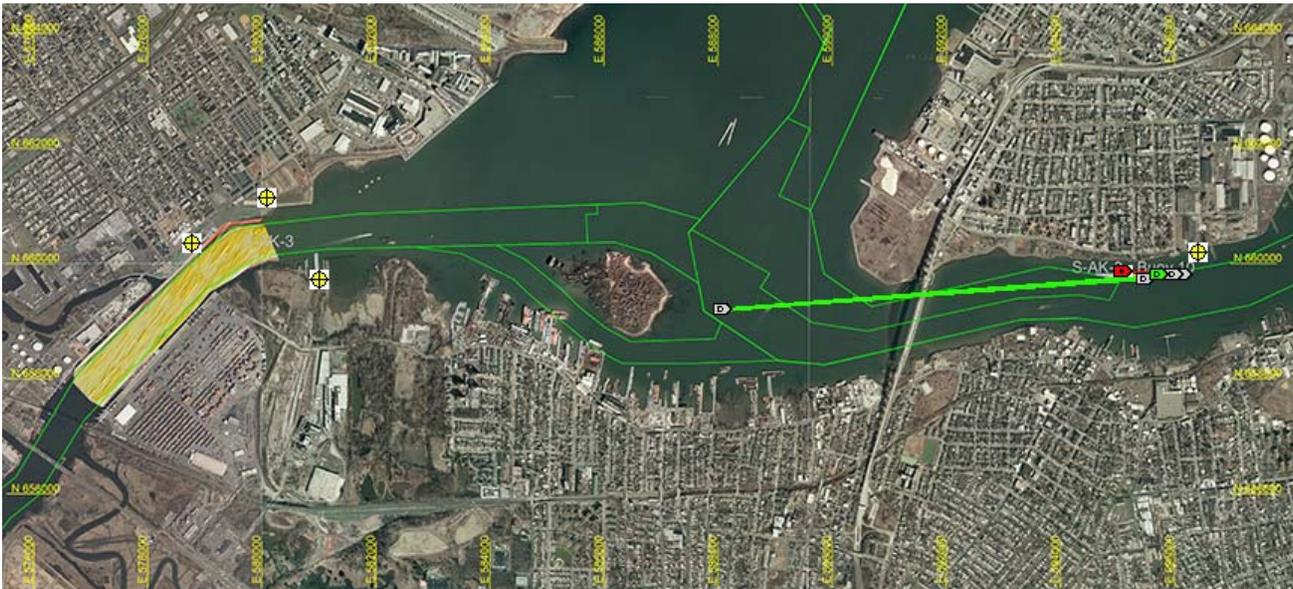
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Arthur Kill Blasting Event Summary

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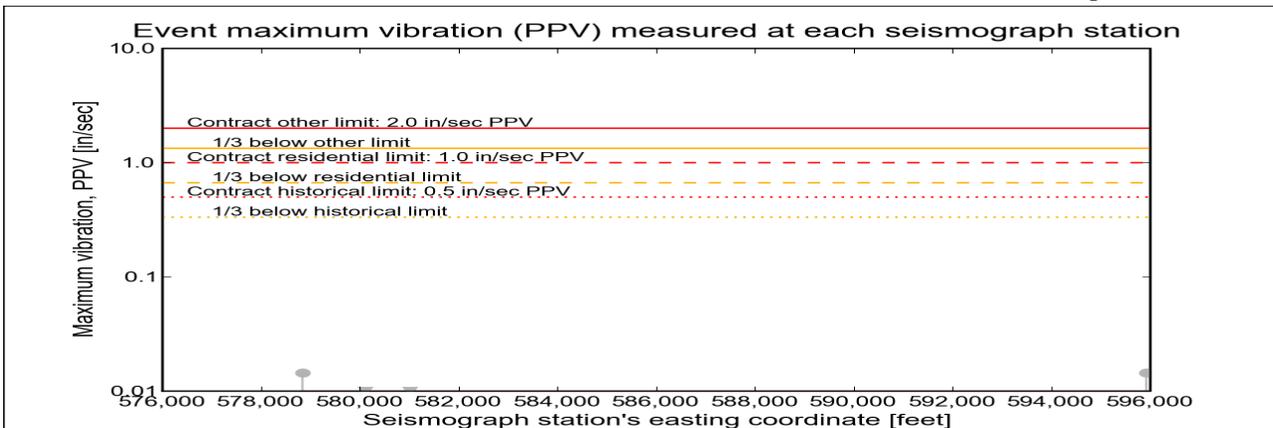
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Date of reading: Thu 04-Jul-2013



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

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Elizabeth Port - e4s009	Thu 04-Jul-2013	15:31:44	0.00375	Ambient
NYCT - e4s008	Thu 04-Jul-2013	15:37:46	0.00625	Ambient
Bayonne - e4s011	Thu 04-Jul-2013	01:47:03	0.0144	Ambient



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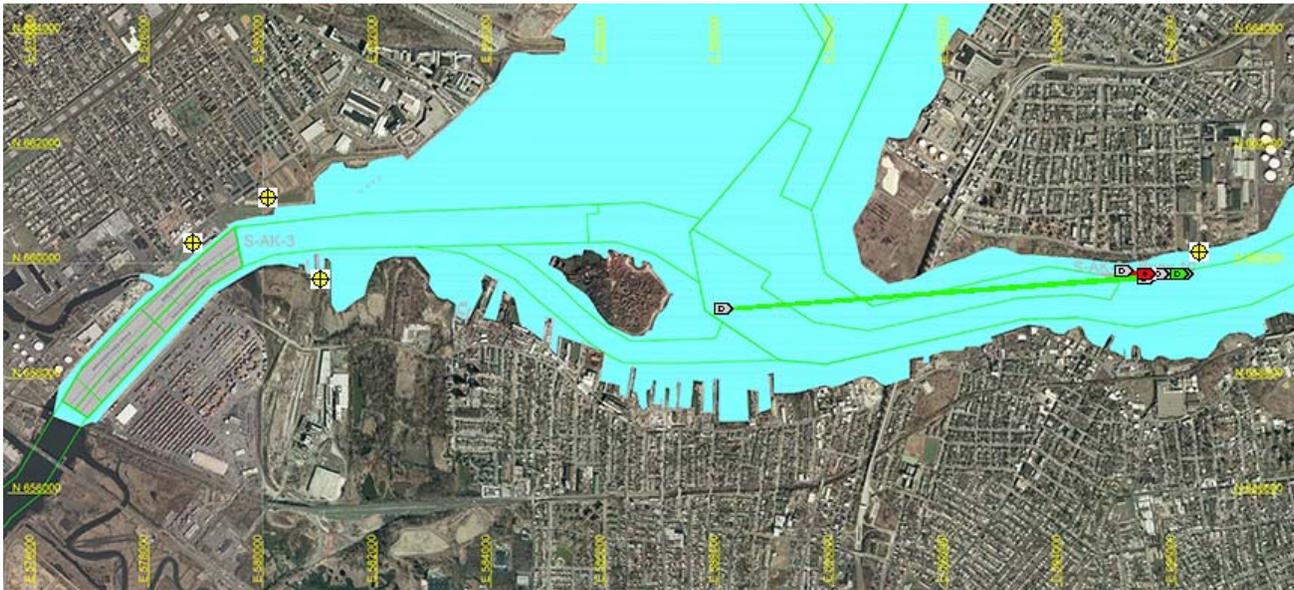
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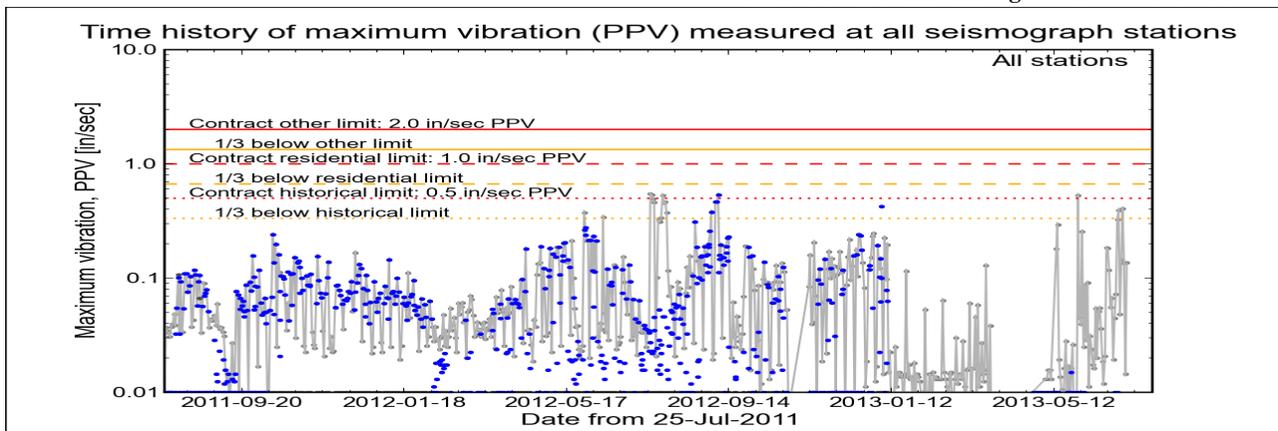
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Date and time of last reading: Fri 05-Jul-2013 16:01:44



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

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

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Fri 05-Jul-2013	16:01:44	0.1360	Bayonne
Ambient	Thu 04-Jul-2013	23:02:35	0.0144	Elizabeth Marina
Ambient	Wed 03-Jul-2013	20:47:38	0.1350	Bayonne
Ambient	Tue 02-Jul-2013	19:16:43	0.4050	Bayonne
Ambient	Mon 01-Jul-2013	13:16:43	0.1440	Bayonne
Ambient	Sun 30-Jun-2013	19:31:45	0.0481	Bavonne



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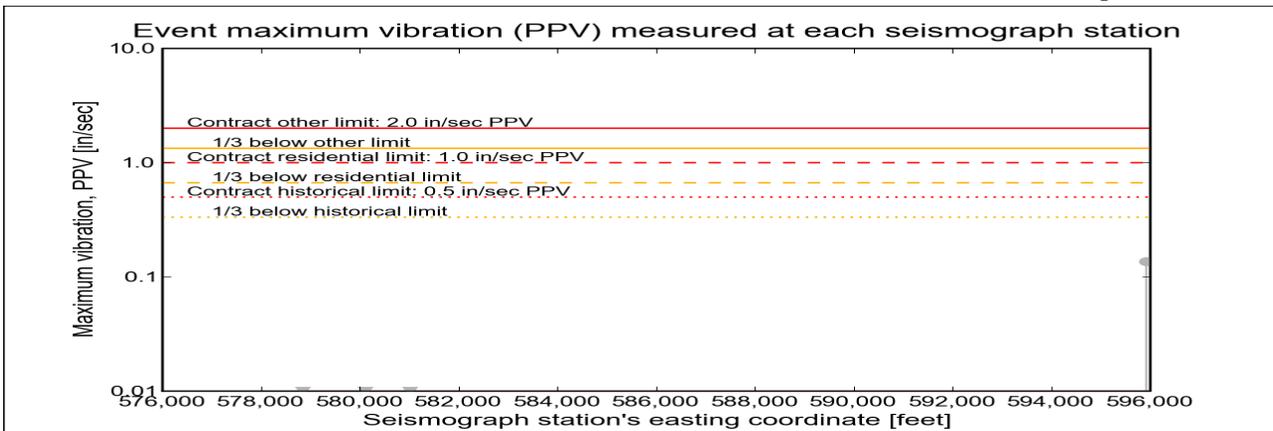
Click station for more information about the station.



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 05-Jul-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 05-Jul-2013	05:02:39	0.00875	Ambient
Elizabeth Port - e4s009	Fri 05-Jul-2013	16:31:51	0.00437	Ambient
NYCT - e4s008	Fri 05-Jul-2013	00:07:44	0.00375	Ambient
Bayonne - e4s011	Fri 05-Jul-2013	16:01:44	0.136	Ambient



Home Event Summary Stations: Dredges History Links

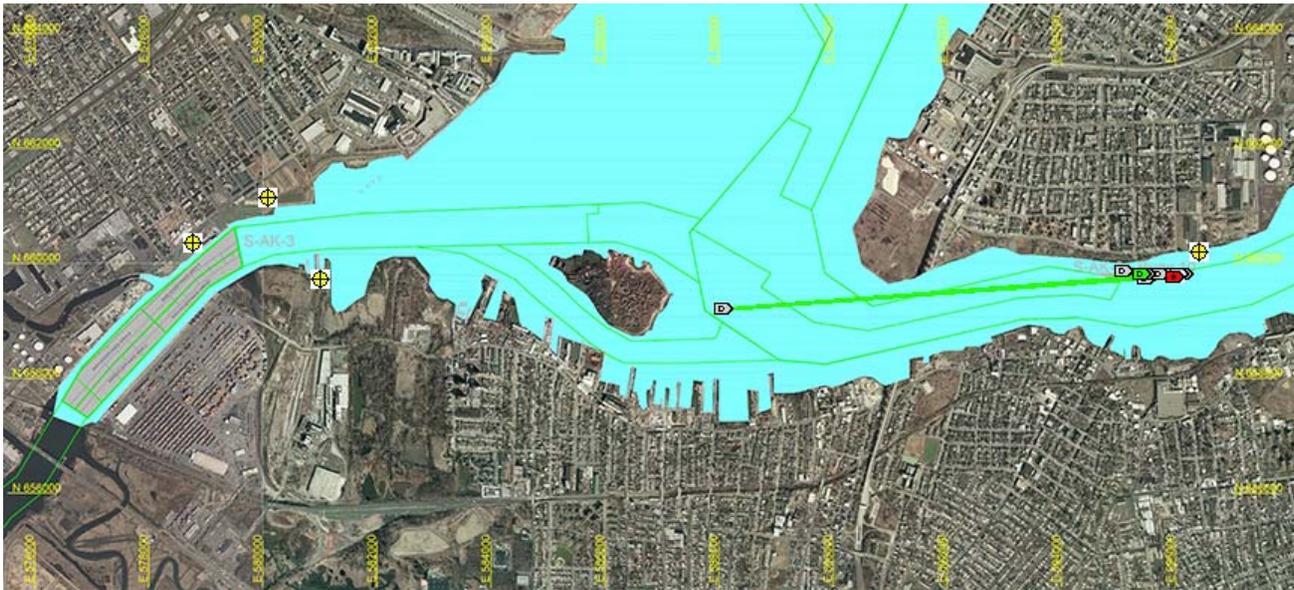
Arthur Kill Blast Vibration Summary

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.

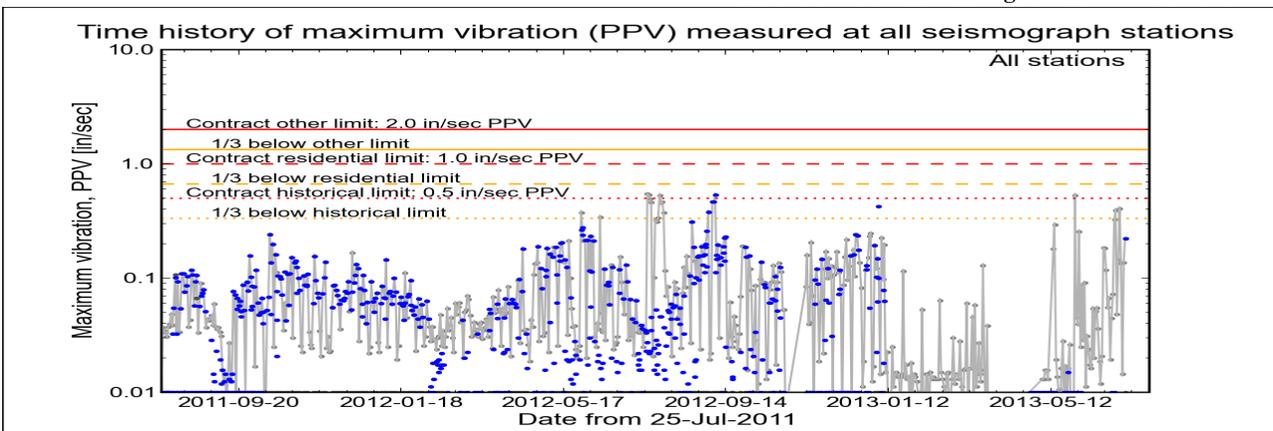
Click station for station information or click channel for event summary.



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 06-Jul-2013 18:01:44



(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	Sat 06-Jul-2013	18:01:44	0.2220	Bayonne
Ambient	Fri 05-Jul-2013	16:01:44	0.1360	Bayonne
Ambient	Thu 04-Jul-2013	23:02:35	0.0144	Elizabeth Marina
Ambient	Wed 03-Jul-2013	20:47:38	0.1350	Bayonne
Ambient	Tue 02-Jul-2013	19:16:43	0.4050	Bayonne
Ambient	Mon 01-Jul-2013	13:16:43	0.1440	Bavonne



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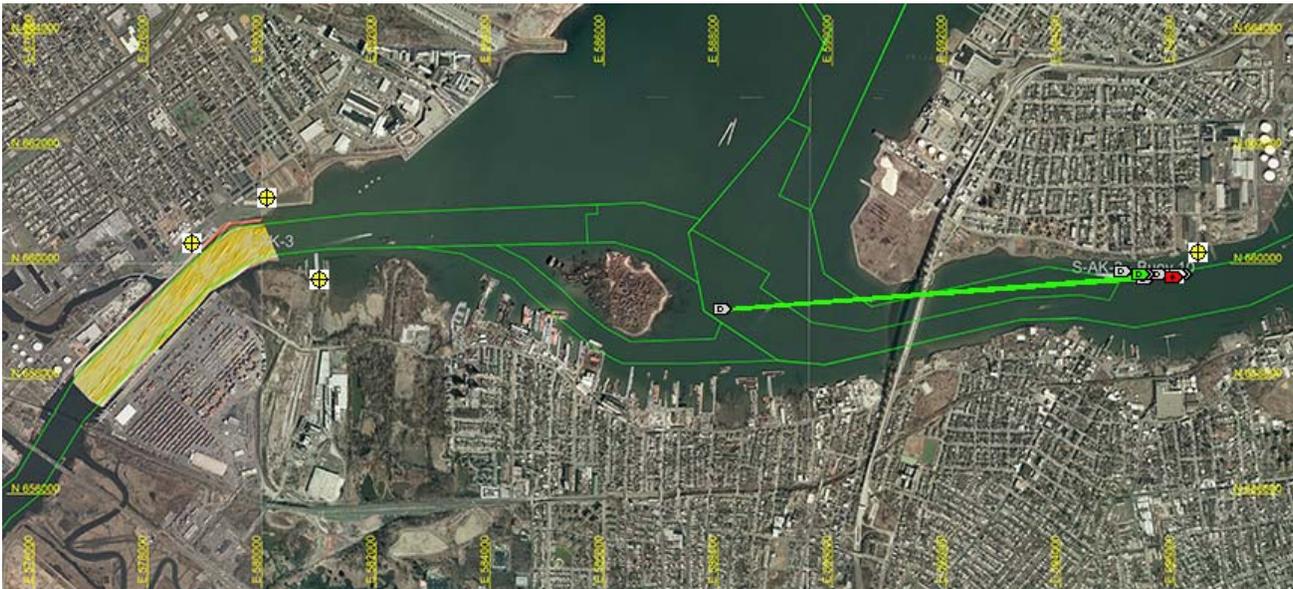
[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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.

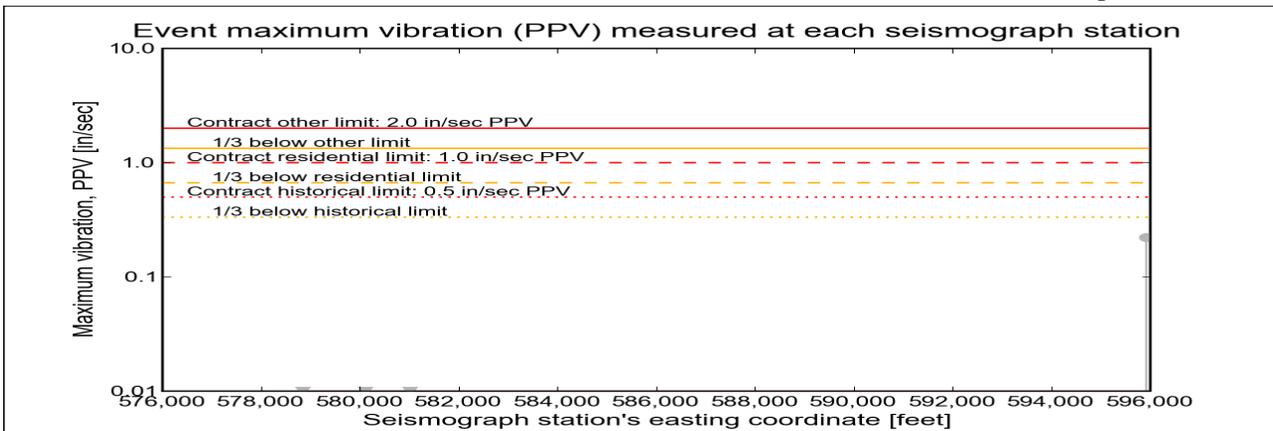
Click station for more information about the station.



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 06-Jul-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 06-Jul-2013	23:47:34	0.00875	Ambient
Elizabeth Port - e4s009	Sat 06-Jul-2013	16:01:43	0.00437	Ambient
NYCT - e4s008	Sat 06-Jul-2013	19:22:45	0.00437	Ambient
Bayonne - e4s011	Sat 06-Jul-2013	18:01:44	0.222	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.

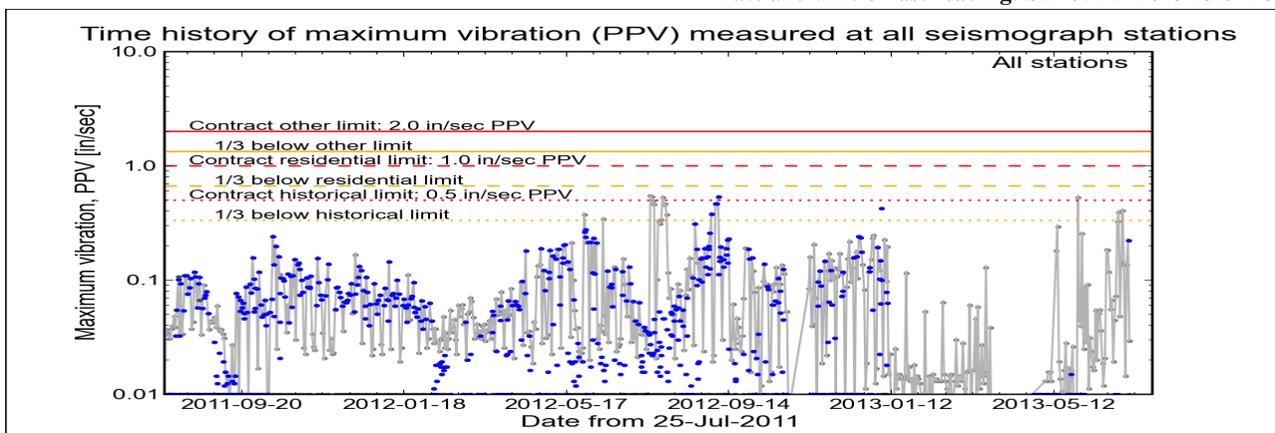
Click station for station information or click channel for event summary.



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 07-Jul-2013 23:01:43



(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 07-Jul-2013	23:01:43	0.0294	Bayonne
Blast	Sat 06-Jul-2013	18:01:44	0.2220	Bayonne
Ambient	Fri 05-Jul-2013	16:01:44	0.1360	Bayonne
Ambient	Thu 04-Jul-2013	23:02:35	0.0144	Elizabeth Marina
Ambient	Wed 03-Jul-2013	20:47:38	0.1350	Bayonne
Ambient	Tue 02-Jul-2013	19:16:43	0.4050	Bavonne



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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.

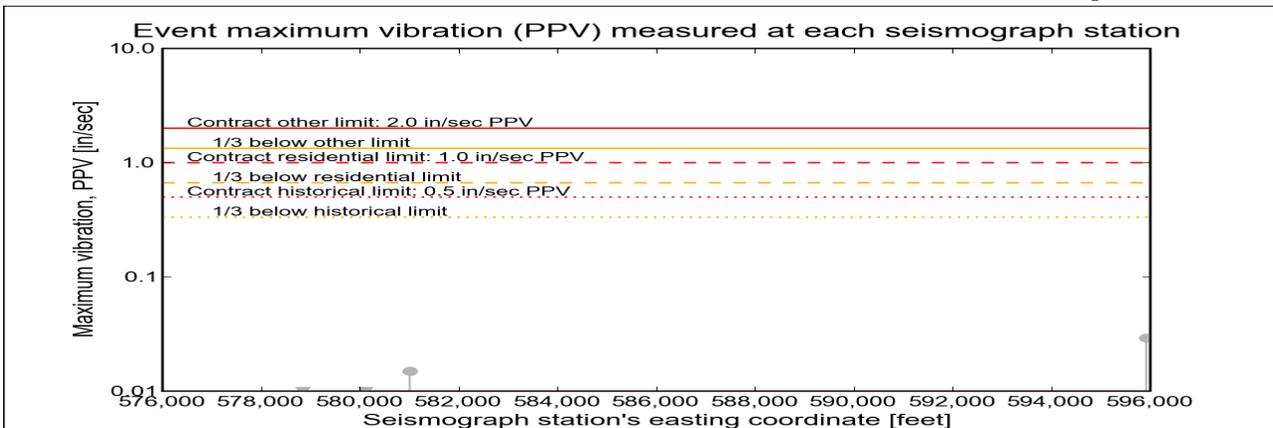
Click station for more information about the station.



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 07-Jul-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 07-Jul-2013	02:32:38	0.00875	Ambient
Elizabeth Port - e4s009	Sun 07-Jul-2013	16:31:46	0.00437	Ambient
NYCT - e4s008	Sun 07-Jul-2013	15:37:43	0.015	Ambient
Bayonne - e4s011	Sun 07-Jul-2013	23:01:43	0.0294	Ambient