

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 7 – October 13, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, October 7, through Sunday, October 13, 2013.

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

We recorded vibrations in the S-AK-3 project area. The maximum vibration recorded was 0.25 in/s recorded at Elizabeth Marina on October 9. 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 Apache and Dredge 55 operated in S-AK-3.

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

October 7

October 8

October 9

October 10

October 11

October 12

October 13

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.

Ambient ground vibrations at NYCT were all below 0.0369 in/s Ambient vibrations at Elizabethport were all below 0.0381 in/s. Ambient vibrations at Elizabeth Marina were all below 0.25 in/s. All blast vibration measurements are below the contract vibration limits for this site.

Table 1. S-AK-3 Blast Summary for this week

Blast	Date & Time	Distance from blast	e4s Max. vibration
	EST/EDT of blast	to e4s stations (feet)	(in/s)
AK-071	2013-10-07 15:02	0,520 - 1,750	0.221
AK-072	2013-10-08 13:44	0,540 - 1,870	0.141
AK-073	2013-10-09 12:30	0,660 - 2,360	0.25
AK-074	2013-10-10 09:05	0,810 - 2,480	0.161
AK-075	2013-10-11 09:05	0,960 - 2,590	0.107
AK-076	2013-10-11 15:29	0,640 - 2,390	0.135
AK-077	2013-10-12 10:52	1,130 - 2,720	0.0831
AK-078	2013-10-12 15:43	0,640 - 2,410	0.147



Event Summary Dredges 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

Dredge Location Table

Date	Dredge Name	Easting	Northing	Notes
2013-10-13 Sun	Dredge 55	588835	658057	
2013-10-13 Sun	Drillboat Apache	577925	659292	
2013-10-12 Sat	Dredge 55	588863	657985	
2013-10-12 Sat	Drillboat Apache	578230	659329	
2013-10-11 Fri	Dredge 55	588863	657985	
2013-10-10 Thu	Dredge 55	588836	657912	
2013-10-10 Thu	Drillboat Apache	578423	659548	
2013-10-09 Wed	Drillboat Apache	578562	659658	
2013-10-08 Tue	Drillboat Apache	579033	659806	
2013-10-07 Mon	Drillboat Apache	579172	659879	



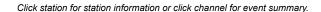


Arthur Kill Blast Vibration Summary

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.

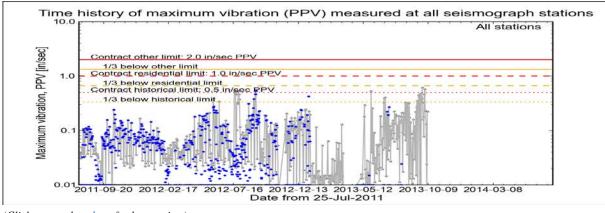




Latest Event Summary

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 $07\text{-}Oct\text{-}2013\ 18:47:33$



(Click on graph or here for larger view)

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Mon 07-Oct-2013	18:47:33	0.2210	Elizabeth Marina
Ambient	Sun 06-Oct-2013	12:52:46	0.0050	NYCT
Ambient	Sat 05-Oct-2013	16:32:34	0.0237	Elizabeth Marina
Ambient	Fri 04-Oct-2013	17:02:33	0.1300	Elizabeth Marina
Ambient	Thu 03-Oct-2013	16:47:33	0.2250	Elizabeth Marina
Amhient	Wed 02-Oct-2013	20:47:34	0.2340	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.

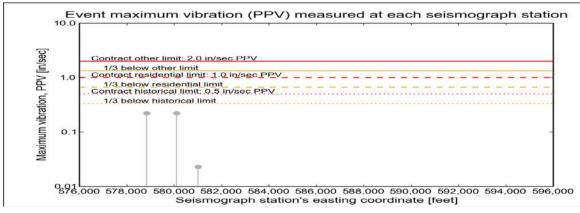
Click station for more information about the station.



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 07-Oct-2013



(Click on graph or here for larger view)

Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Mon 07-Oct-2013	18:47:33	0.221	Ambient
Elizabeth Port - e4s009 NYCT - e4s008	Mon 07-Oct-2013 Mon 07-Oct-2013	18:47:33 18:53:48	0.221 0.0231	Ambient Ambient



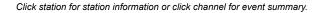
Home Event Summary Stations: Dredges History Links

Arthur Kill Blast Vibration Summary

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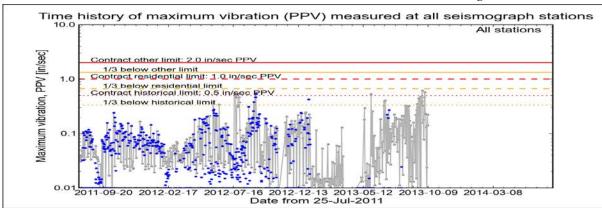




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Date and time of last reading: Tue 08-Oct-2013 17:32:36



(Click on graph or here for larger view)

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Tue 08-Oct-2013	17:32:36	0.1410	Elizabeth Marina
Ambient	Mon 07-Oct-2013	18:47:33	0.2210	Elizabeth Marina
Ambient	Sun 06-Oct-2013	12:52:46	0.0050	NYCT
Ambient	Sat 05-Oct-2013	16:32:34	0.0237	Elizabeth Marina
Ambient	Fri 04-Oct-2013	17:02:33	0.1300	Elizabeth Marina
Ambient	Thu 03-Oct-2013	16:47:33	0.2250	Elizabeth Marina
	e4sciences Earthwork	S, LLC 27 Glen Roa	ad, Sandy Hook, CT 064	82 www.e4sciences.com



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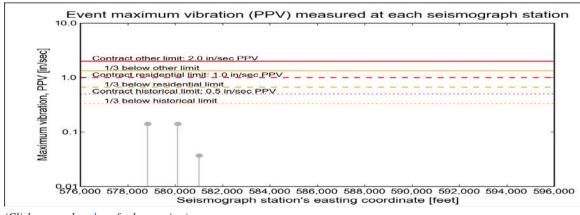
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Date of reading: Tue 08-Oct-2013



(Click on graph or here for larger view)

Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Tue 08-Oct-2013	17:32:36	0.141	Ambient
Elizabeth Port - e4s009 NYCT - e4s008	Tue 08-Oct-2013 Tue 08-Oct-2013	17:32:36 17:42:11	0.141 0.0369	Ambient Ambient

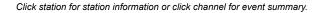


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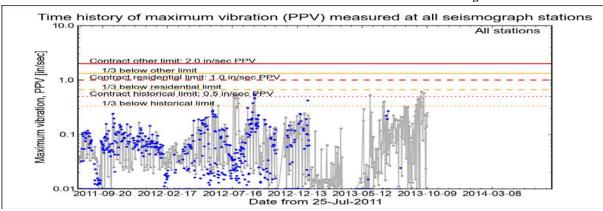




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Date and time of last reading: Wed 09-Oct-2013 16:17:37



(Click on graph or here for larger view)

ns event page.				
Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient Ambient Ambient	Wed 09-Oct-2013 Tue 08-Oct-2013 Mon 07-Oct-2013 Sun 06-Oct-2013	16:17:37 17:32:36 18:47:33 12:52:46	0.2500 0.1410 0.2210 0.0050	Elizabeth Marina Elizabeth Marina Elizabeth Marina NYCT
Ambient Ambient	Sat 05-Oct-2013 Fri 04-Oct-2013	16:32:34 17:02:33	0.0237 0.1300	Elizabeth Marina Elizabeth Marina



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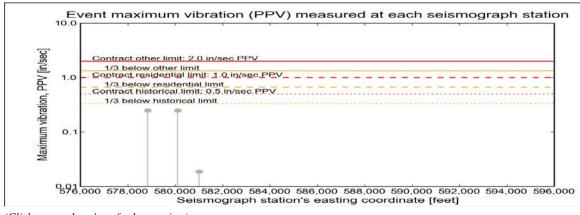
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Date of reading: Wed 09-Oct-2013



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Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Wed 09-Oct-2013	16:17:37	0.25	Ambient
Elizabeth Port - e4s009 NYCT - e4s008	Wed 09-Oct-2013 Wed 09-Oct-2013	16:17:37 16:22:48	0.25 0.0187	Ambient Ambient

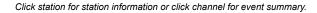


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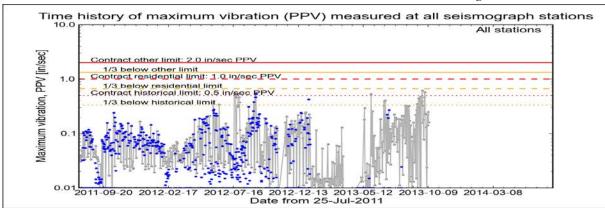




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Date and time of last reading: Thu 10-Oct-2013 13:02:37



(Click on graph or here for larger view)

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Thu 10-Oct-2013	13:02:37	0.1610	Elizabeth Marina
Ambient	Wed 09-Oct-2013	16:17:37	0.2500	Elizabeth Marina
Ambient	Tue 08-Oct-2013	17:32:36	0.1410	Elizabeth Marina
Ambient	Mon 07-Oct-2013	18:47:33	0.2210	Elizabeth Marina
Ambient	Sun 06-Oct-2013	12:52:46	0.0050	NYCT
Ambient	Sat 05-Oct-2013	16:32:34	0.0237	Elizabeth Marina
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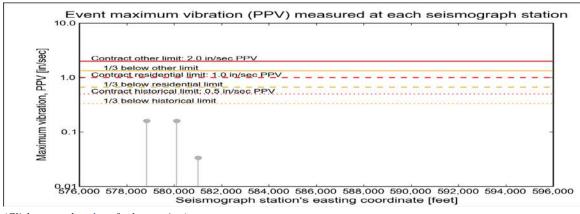
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Date of reading: Thu 10-Oct-2013



(Click on graph or here for larger view)

Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Thu 10-Oct-2013	13:02:37	0.161	Ambient
Elizabeth Port - e4s009 NYCT - e4s008	Thu 10-Oct-2013 Thu 10-Oct-2013	13:02:37 12:53:10	0.161 0.0337	Ambient Ambient

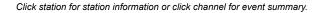


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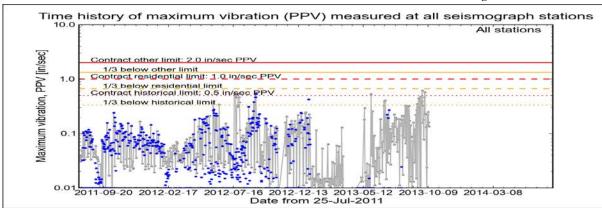




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Date and time of last reading: Fri 11-Oct-2013 19:17:33



(Click on graph or here for larger view)

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Fri 11-Oct-2013	19:17:33	0.1350	Elizabeth Marina
Ambient	Thu 10-Oct-2013	13:02:37	0.1610	Elizabeth Marina
Ambient	Wed 09-Oct-2013	16:17:37	0.2500	Elizabeth Marina
Ambient	Tue 08-Oct-2013	17:32:36	0.1410	Elizabeth Marina
Ambient	Mon 07-Oct-2013	18:47:33	0.2210	Elizabeth Marina
Ambient	Sun 06-Oct-2013	12:52:46	0.0050	NYCT
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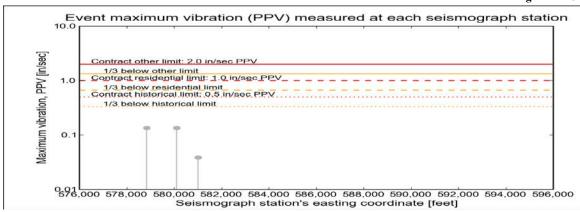
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Date of reading: Fri 11-Oct-2013



(Click on graph or here for larger view)

Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Fri 11-Oct-2013	19:17:33	0.135	Ambient
Elizabeth Port - e4s009 NYCT - e4s008	Fri 11-Oct-2013 Fri 11-Oct-2013	19:17:33 12:52:45	0.135 0.0387	Ambient Ambient



Links **Event Summary** Dredges History

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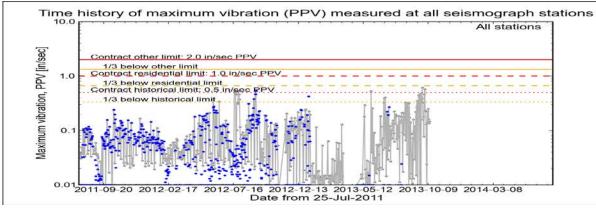
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Click station for station information or click channel for event summary.

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Date and time of last reading: Sat 12-Oct-2013 19:55:51



(Click on graph or here for larger view)

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sat 12-Oct-2013	19:55:51	0.1470	Elizabeth Marina
Ambient	Fri 11-Oct-2013	19:17:33	0.1350	Elizabeth Marina
Ambient	Thu 10-Oct-2013	13:02:37	0.1610	Elizabeth Marina
Ambient	Wed 09-Oct-2013	16:17:37	0.2500	Elizabeth Marina
Ambient	Tue 08-Oct-2013	17:32:36	0.1410	Elizabeth Marina
Ambient	Mon 07-Oct-2013	18:47:33	0.2210	Elizabeth Marina
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Home Event Summary Stations: Dredges History

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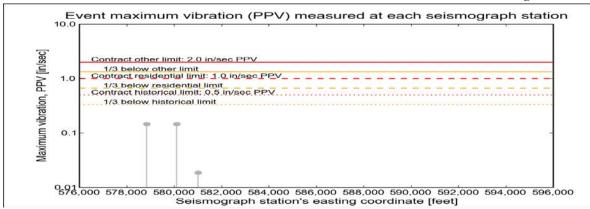
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Click station for more information about the station.

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 ambientvibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.)

Date of reading: Sat 12-Oct-2013



(Click on graph or here for larger view)

Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Sat 12-Oct-2013	19:55:51	0.147	Ambient
Elizabeth Port - e4s009 NYCT - e4s008	Sat 12-Oct-2013 Sat 12-Oct-2013	19:55:51 14:52:46	0.147 0.0187	Ambient Ambient





Event Summary 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.

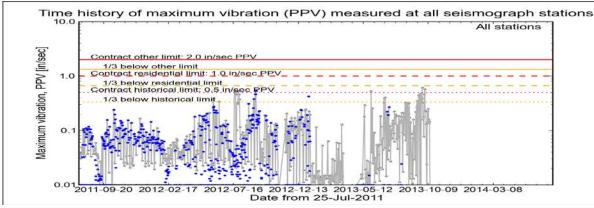
The Arthur Kill contract area is mapped below in light gray. The navigation grid is superimposed. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge is marked in red. The easting and 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 13-Oct-2013 19:22:46



(Click on graph or here for larger view)

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sun 13-Oct-2013	19:22:46	0.0075	NYCT
Ambient	Sat 12-Oct-2013	19:55:51	0.1470	Elizabeth Marina
Ambient	Fri 11-Oct-2013	19:17:33	0.1350	Elizabeth Marina
Ambient	Thu 10-Oct-2013	13:02:37	0.1610	Elizabeth Marina
Ambient	Wed 09-Oct-2013	16:17:37	0.2500	Elizabeth Marina
Ambient	Tue 08-Oct-2013	17:32:36	0.1410	Elizabeth Marina
	easciences Earthwork	S. LLC 27 Glen Ro	ad Sandy Hook CT 064	87 www.e4science



Event Summary Stations: Dredges History

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.

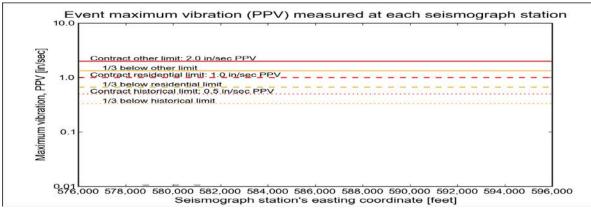
The Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge location is marked in red. The easting and northing map coordinates 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 ambientvibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.)

Date of reading: Sun 13-Oct-2013



(Click on graph or here for larger view)

Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Sun 13-Oct-2013	18:47:33	0.00437	Ambient
Elizabeth Port - e4s009 NYCT - e4s008	Sun 13-Oct-2013 Sun 13-Oct-2013	18:47:33 19:22:46	0.00437 0.0075	Ambient Ambient

