F00627

NOAA Form 76-35A

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Survey

DESCRIPTIVE REPORT

Type of Survey: Response

Registry Number: F00627

LOCALITY

State: New York

General Locality: New York Harbor

Sub-locality: Jamaica Bay

2012

CHIEF OF PARTY
LTJG Andrew R. Clos, NOAA

LIBRARY & ARCHIVES

Date:

NOAA FORM 77-28 (11-72)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	REGISTRY NUMBER:
HYDROGRAPHIC TITLE SHEET		**F00627**

INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

State:	**New York**
General Locality:	**New York Harbor**
Sub-Locality:	**Jamaica Bay**
Scale:	1: **10,000**
Date of Survey:	**11/6/2012**
Instructions Dated:	**11/6/2012**
Project Number:	**S-B936-NRT5-12**
Field Unit:	**Navigation Response Team 5**
Chief of Party:	**LTJG Andrew Clos**
Soundings by:	**Multibeam Echo Sounder**
Imagery by:	**N/A**
Verification by:	**Pacific Hydrographic Branch**
Soundings Acquired in:	**meters at Mean Lower Low Water**
H-Cell Compilation Units:	**N/A**

Remarks:

The purpose of this survey is to respond to US Coast Guard request for hydrographic surveys to reopen the channels in Jamaica Bay due to the effects of Hurricane Sandy. All separates are filed with the hydrographic data. Any revisions to the Descriptive Report (DR) generated during office processing are shown in bold red italic text. The processing branch maintains the DR as a field unit product, therefore, all information and recommendations within the body of the DR are considered preliminary unless otherwise noted. The final disposition of surveyed features is represented in the OCS nautical chart update products. All pertinent records for this survey, including the DR, are archived at the National Geophysical Data Center (NGDC) and can be retrieved via http://www.ngdc.noaa.gov/.

UNITED STATES DEPARTMENT COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Office of Coast Survey
Silver Spring, Maryland 20910-3282

16 March 2015

MEMORANDUM FOR: Commander Benjamin K. Evans, NOAA
Chief, Pacific Hydrographic Branch

FROM: Lieutenant Junior Grade Andrew R. Clos, NOAA
Team Lead, Navigation Response Team 5

SUBJECT: Submission of Survey F00627

Survey F00627 was conducted by NRT5 in response to Hurricane Sandy. The purpose of this survey is to respond to US Coast Guard requests for hydrographic surveys to reopen the channels in Jamaica Bay due to the effects of Hurricane Sandy. The survey limits and methods were determined by the on-scene United States Coast Guard (USCG) Commander and NOAA Navigation Manager. Data was collected in the most efficient manner to provide critical information to make real-time decisions on channel and/or port closures and openings. Therefore, the data are not intended to meet NOAA charting specifications.

NRT5 provided processed data to on-scene personnel from NRB, who in-turn, provided sounding plots to the USCG for inclusion in the Environmental Response Management Application (ERMA). Additionally, imagery depicting individual areas of shoaling was created to assist the Army Corps of Engineers in planning future channel dredging efforts.

Soundings were reduced to Mean Lower Low Water (MLLW) using observed tides from tide station: 8518750 (The Battery). A tide zoning file was provided by CO-OPS from a 2012 survey of this area: B936NRT52012CORP.zdf.

All survey systems and methods utilized during this survey were as described in the 2012 Data Acquisition and Processing Report DAPR_S-B936-NRT5-12.

All data was reviewed for Dangers to Navigation, and none were found.
During branch processing 6 shoal soundings were identified as DTONs and submitted to MCD on July 6, 2015. Two wrecks and a shoal sounding were also selected for charting and submitted to MCD through a chart letter on August 19, 2015. Copies of the DTON report and chart letter are appended to this memo.

This survey does not meet charting specifications and is not adequate to supersede prior data.

Metadata	
Project	S-B936-NRT5-12
Survey	F00627
State	New York
Locality	New York Harbor
Sub Locality	Jamaica Bay

Scale of Survey	1:10000
Sonars Used	Klein 3000, Kongsberg EM3002
Horizontal Datum	North American Datum of 1983 (NAD83)
Vertical Datum	Mean Lower Low Water (MLLW)
Vertical Datum Correction	Verified Observed Tides from Gauge 8518750. 8519483
Projection	Latitude-Longitude (NAD83) - UTM Zone 18N
Field Unit	NRT5
Survey Dates	11/6/2012 – 11/6/2012
Chief of Party	Steven Loy, Andrew Clos
Submission Date	4/03/2015

DTON Report

Registry Number: F00627
State: New York
Locality: Jamaica Bay
Sub-locality: Jamaica Bay
Project Number: S-B936-NRT5-12
Survey Date: 11/06/2012

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
12350	60th	08/01/2011	1:20,000 (12350_1)	USCG LNM: 5/5/2015 (5/19/2015) CHS NTM: None (4/24/2015) NGA NTM: 11/8/1997 (5/23/2015)
12326	50th	05/01/2006	1:80,000 (12326_1)	[L]NTM: ?
12300	47th	05/01/2008	1:400,000 (12300_1)	[L]NTM: ?
13006	34th	05/01/2007	1:675,000 (13006_1)	[L]NTM: ?
5161	13th	10/01/2003	1:1,058,400 (5161_1)	[L]NTM: ?
13003	49th	04/01/2007	1:1,200,000 (13003_1)	[L]NTM: ?
14500	27th	10/01/2002	1:1,500,000 (14500_1)	[L]NTM: ?

* Correction(s) - *source: last correction applied (last correction reviewed--"cleared date")*

Features

No.	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	Shoal	4.18 m	40° 35' 12.1" N	073° 49' 51.6" W	---
1.2	Shoal	4.46 m	40° 35' 40.0" N	073° 48' 49.8" W	---
1.3	Shoal	4.12 m	40° 35' 48.1" N	073° 48' 36.5" W	---
1.4	Shoal	4.47 m	40° 36' 02.1" N	073° 48' 04.9" W	---
1.5	Shoal	4.18 m	40° 37' 33.8" N	073° 45' 43.7" W	---
1.6	Shoal	4.38 m	40° 37' 43.9" N	073° 45' 26.9" W	---

1 - Dangers To Navigation

1.1) US 0000000256 00001

DANGER TO NAVIGATION

Survey Summary

Survey Position:	40° 35' 12.1" N, 073° 49' 51.6" W
Least Depth:	4.18 m (= 13.72 ft = 2.287 fm = 2 fm 1.72 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2012-311.00:00:00.000 (11/06/2012)
Dataset:	F00627_DTON.000
FOID:	US 0000000256 00001(0226000001000001/1)
Charts Affected:	12350_1, 12326_1, 12300_1, 13006_1, 5161_1, 13003_1, 14500_1

Remarks:

SOUNDG/remrks: SAR: Surveyed sounding is shallower than charted channel depth.

Hydrographer Recommendations

SAR: Submit new DTON

Cartographically-Rounded Depth (Affected Charts):

13ft (12350_1, 12326_1)

2 ¼fm (12300_1, 13006_1, 13003_1, 14500_1)

4.2m (5161_1)

S-57 Data

Geo object 1:	Sounding (SOUNDG)
Attributes:	SORDAT - 20121106
	SORIND - US,US,graph,F00627
	TECSOU - 3:found by multi-beam

Office Notes

DTON

Feature Images

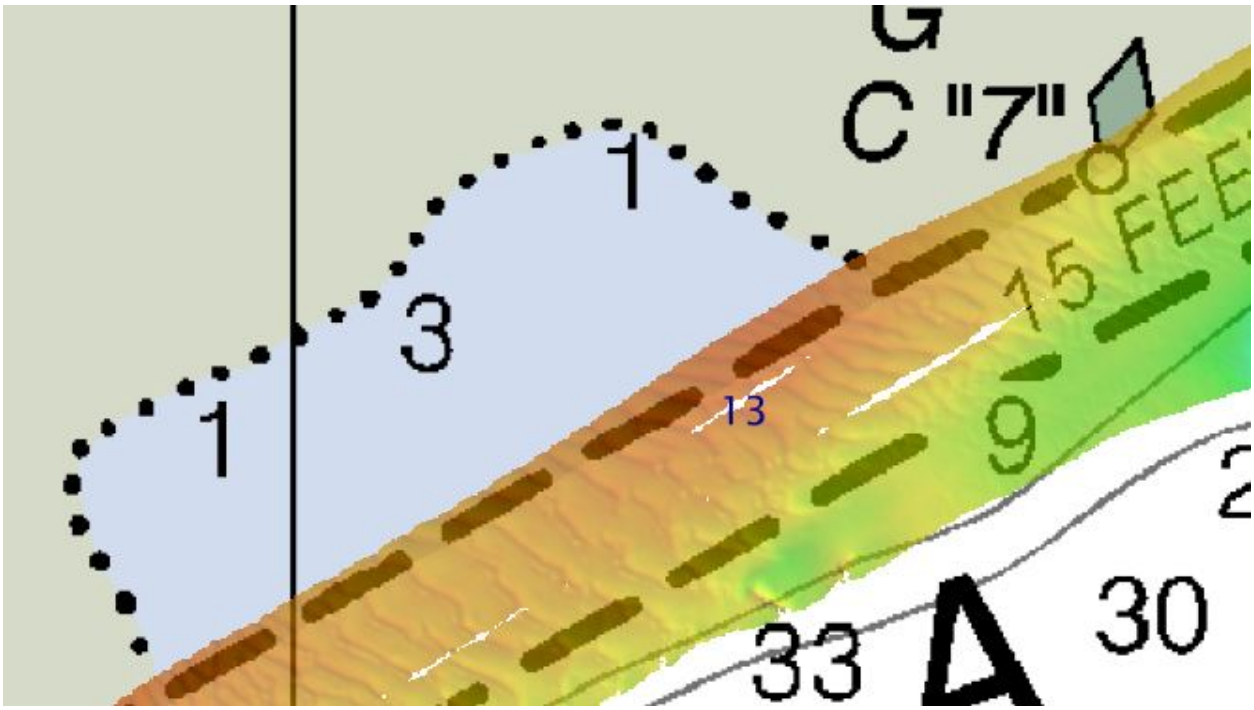

Figure 1.1.1

1.2) US 0000000257 00001

DANGER TO NAVIGATION

Survey Summary

Survey Position:	40° 35' 40.0" N, 073° 48' 49.8" W
Least Depth:	4.46 m (= 14.62 ft = 2.437 fm = 2 fm 2.62 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2012-311.00:00:00.000 (11/06/2012)
Dataset:	F00627_DTON.000
FOID:	US 0000000257 00001(0226000001010001/1)
Charts Affected:	12350_1, 12326_1, 12300_1, 13006_1, 5161_1, 13003_1, 14500_1

Remarks:

SOUNDG/remrks: SAR: Surveyed sounding is shallower than charted channel depth.

Hydrographer Recommendations

SAR: Submit new DTON

Cartographically-Rounded Depth (Affected Charts):

14ft (12350_1, 12326_1)

2 ¼fm (12300_1, 13006_1, 13003_1, 14500_1)

4.4m (5161_1)

S-57 Data

Geo object 1:	Sounding (SOUNDG)
Attributes:	SORDAT - 20121106
	SORIND - US,US,graph,F00627
	TECSOU - 3:found by multi-beam

Office Notes

DTON

Feature Images

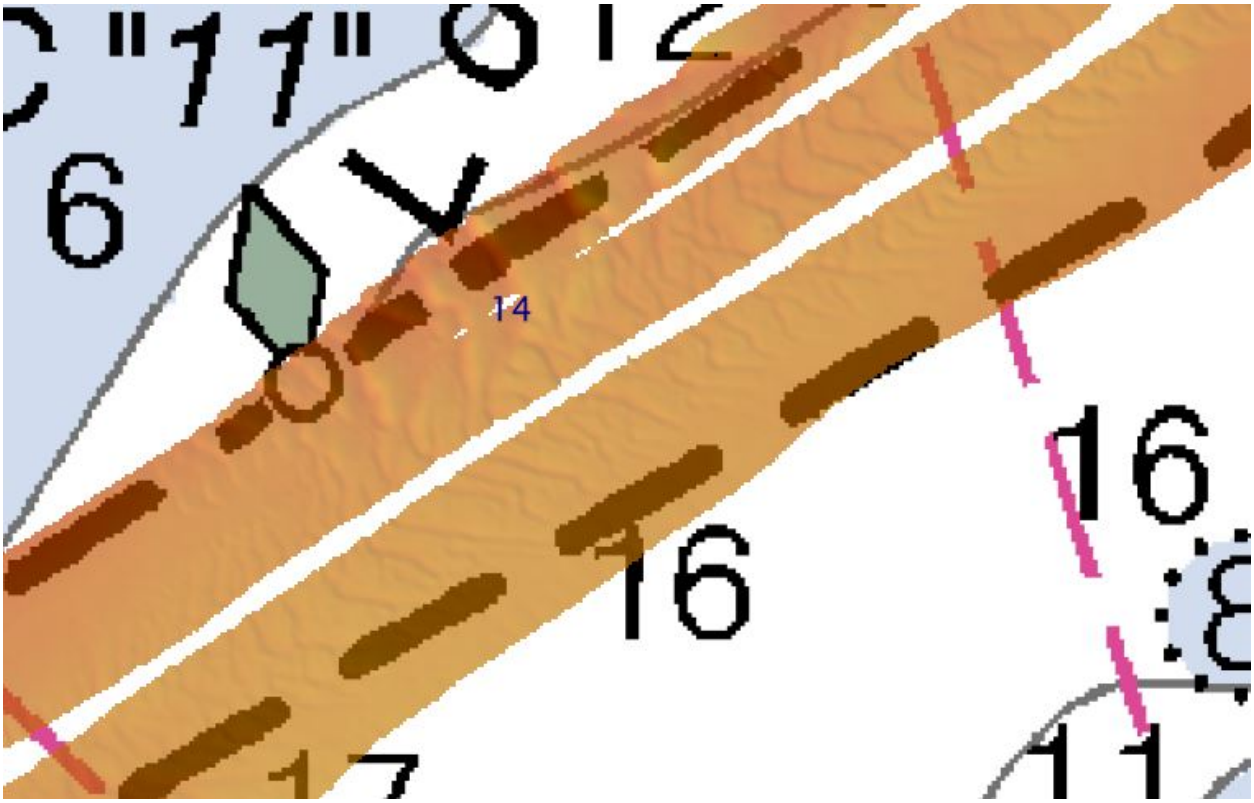

Figure 1.2.1

1.3) US 0000361959 00001

DANGER TO NAVIGATION

Survey Summary

Survey Position:	40° 35' 48.1" N, 073° 48' 36.5" W
Least Depth:	4.12 m (= 13.52 ft = 2.253 fm = 2 fm 1.52 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2012-311.00:00:00.000 (11/06/2012)
Dataset:	F00627_DTON.000
FOID:	US 0000361959 00001(0226000585E70001/1)
Charts Affected:	12350_1, 12326_1, 12300_1, 13006_1, 5161_1, 13003_1, 14500_1

Remarks:

SOUNDG/remrks: SAR: Surveyed sounding is shallower than charted sounding and nearby charted channel depth

Hydrographer Recommendations

SAR: Chart new DTON

Cartographically-Rounded Depth (Affected Charts):

13ft (12350_1, 12326_1)

2 ¼fm (12300_1, 13006_1, 13003_1, 14500_1)

4.1m (5161_1)

S-57 Data

Geo object 1:	Sounding (SOUNDG)
Attributes:	SORDAT - 20121106
	SORIND - US,US,graph,F00627
	TECSOU - 3:found by multi-beam

Office Notes

DTON

Feature Images

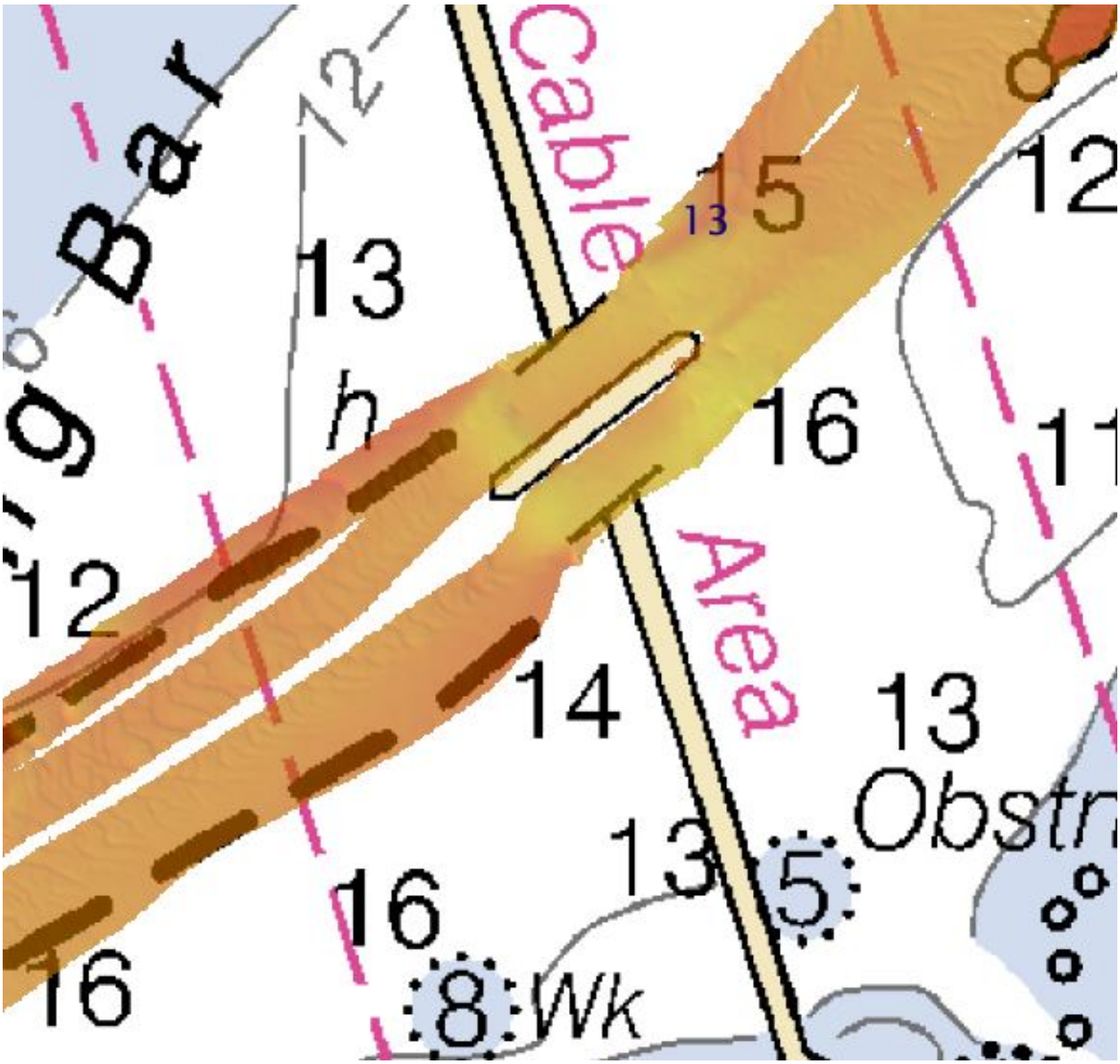

Figure 1.3.1

1.4) US 0000000259 00001

DANGER TO NAVIGATION

Survey Summary

Survey Position:	40° 36' 02.1" N, 073° 48' 04.9" W
Least Depth:	4.47 m (= 14.68 ft = 2.446 fm = 2 fm 2.68 ft)

TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2012-311.00:00:00.000 (11/06/2012)
Dataset:	F00627_DTON.000
FOID:	US 0000000259 00001(0226000001030001/1)
Charts Affected:	12350_1, 12326_1, 12300_1, 13006_1, 5161_1, 13003_1, 14500_1

Remarks:

SOUNDG/remrks: SAR: Surveyed sounding is shallower than charted channel depth.

Hydrographer Recommendations

SAR: Submit new DTON

Cartographically-Rounded Depth (Affected Charts):

14ft (12350_1, 12326_1)

2 ½fm (12300_1, 13006_1, 13003_1, 14500_1)

4.4m (5161_1)

S-57 Data

Geo object 1:	Sounding (SOUNDG)
Attributes:	SORDAT - 20121106
	SORIND - US,US,graph,F00627
	TECSOU - 3:found by multi-beam

Office Notes

DTON

Feature Images

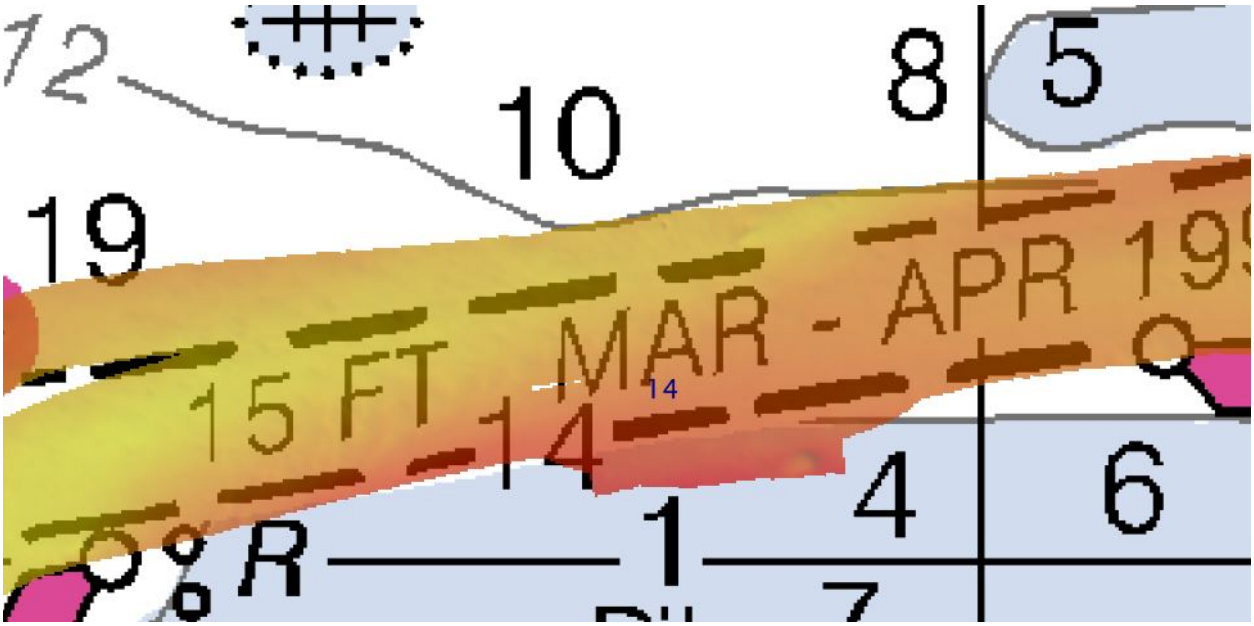

Figure 1.4.1

1.5) US 0000367508 00001

DANGER TO NAVIGATION

Survey Summary

Survey Position:	40° 37' 33.8" N, 073° 45' 43.7" W
Least Depth:	4.18 m (= 13.71 ft = 2.285 fm = 2 fm 1.71 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2012-311.00:00:00.000 (11/06/2012)
Dataset:	F00627_DTON.000
FOID:	US 0000367508 00001(022600059B940001/1)
Charts Affected:	12350_1, 12326_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

SOUNDG/remrks: SAR: Surveyed sounding is shallower than charted 15ft depth contour as well as charted soundings in surrounding area

Hydrographer Recommendations

SAR: Submit new DTON

Cartographically-Rounded Depth (Affected Charts):

13ft (12350_1, 12326_1)

2 ¼fm (12300_1, 13006_1, 13003_1)

4.2m (5161_1)

S-57 Data

Geo object 1:	Sounding (SOUNDG)
Attributes:	SORDAT - 20121106
	SORIND - US,US,graph,F00627
	TECSOU - 3:found by multi-beam

Office Notes

DTON

Feature Images

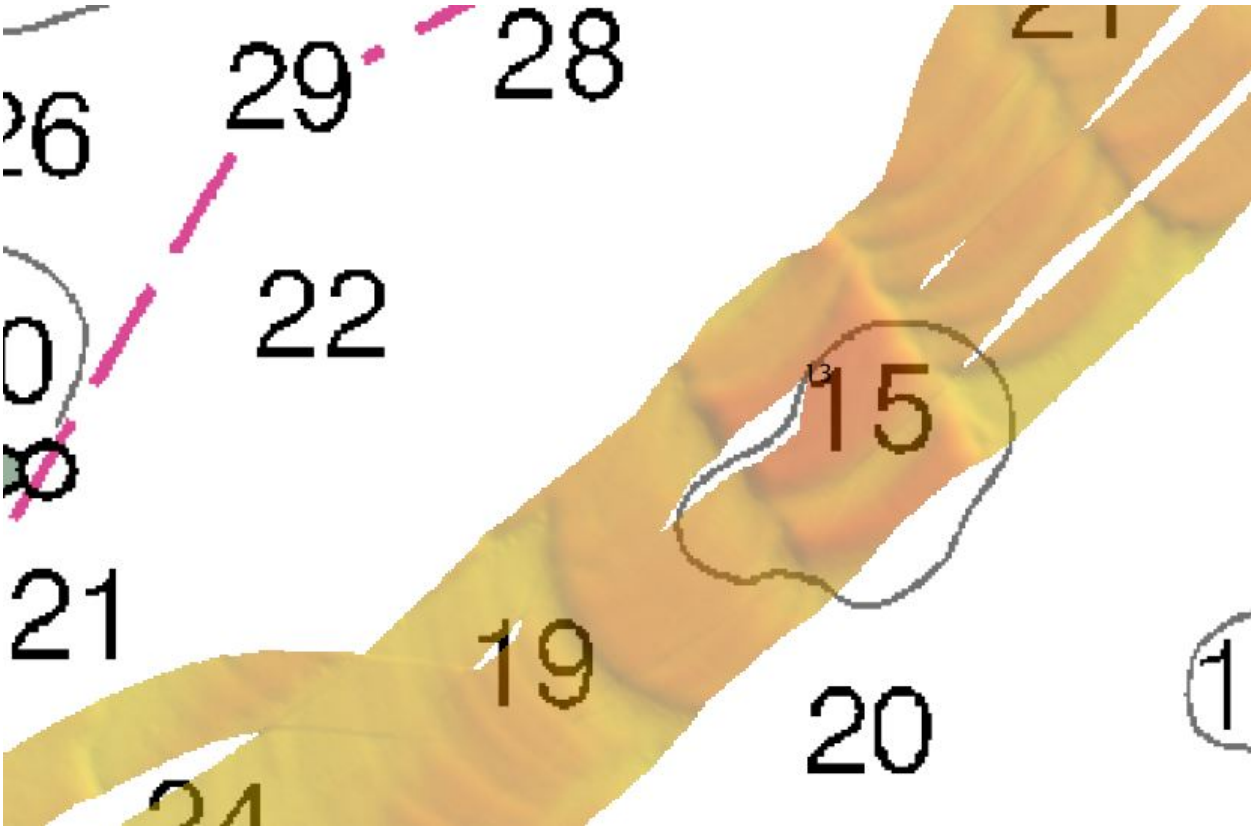

Figure 1.5.1

1.6) US 0000367461 00001

DANGER TO NAVIGATION

Survey Summary

Survey Position:	40° 37' 43.9" N, 073° 45' 26.9" W
Least Depth:	4.38 m (= 14.36 ft = 2.393 fm = 2 fm 2.36 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2012-311.00:00:00.000 (11/06/2012)
Dataset:	F00627_DTON.000
FOID:	US 0000367461 00001(022600059B650001/1)
Charts Affected:	12350_1, 12326_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

SOUNDG/remrks: SAR: Significant depth differences between surveyed sounding and charted soundings

Hydrographer Recommendations

SAR: Submit new DTON

Cartographically-Rounded Depth (Affected Charts):

14ft (12350_1, 12326_1)

2 ¼fm (12300_1, 13006_1, 13003_1)

4.4m (5161_1)

S-57 Data

Geo object 1:	Sounding (SOUNDG)
Attributes:	SORDAT - 20121106
	SORIND - US,US,graph,F00627
	TECSOU - 3:found by multi-beam

Office Notes

DTON

Feature Images

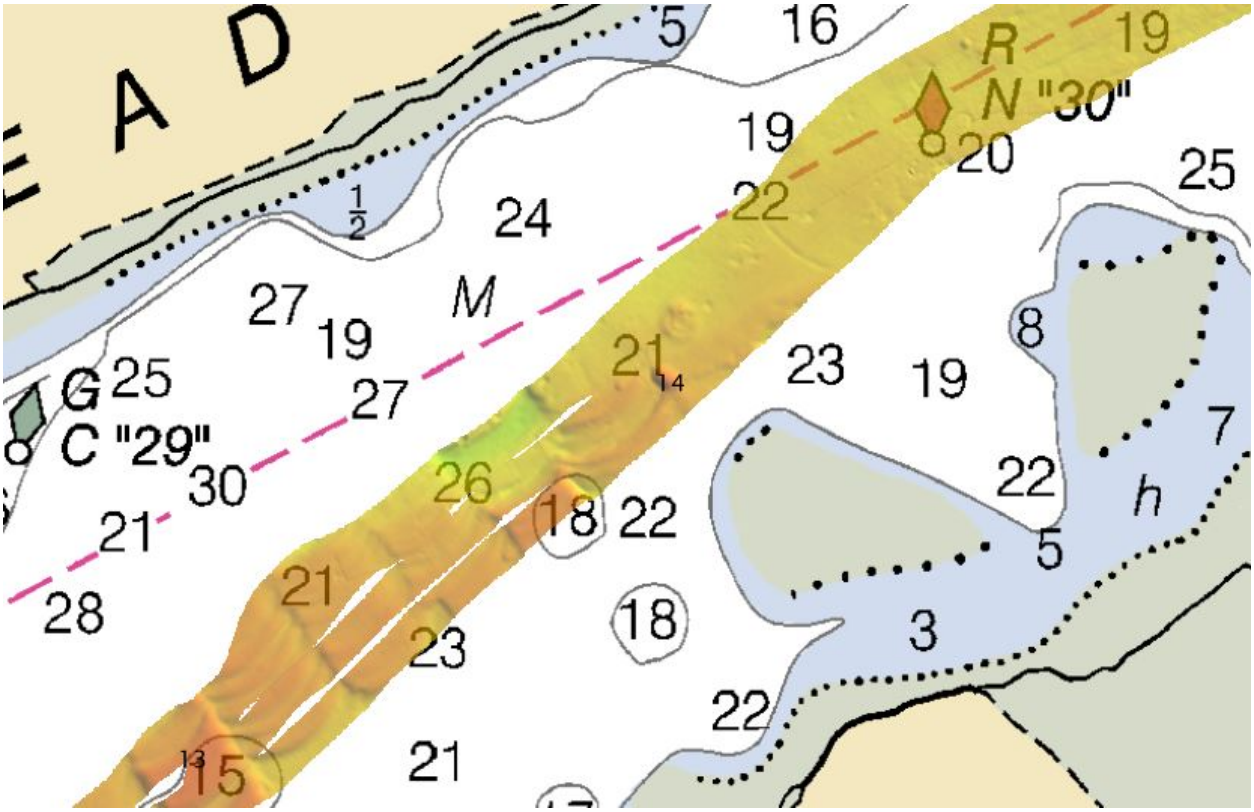

Figure 1.6.1

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
OFFICE OF COAST SURVEY
Pacific Hydrographic Branch
Seattle, Washington 98115-6349

August 19, 2015

MEMORANDUM FOR: Tara Wallace
Chief, Nautical Data Branch

THROUGH: CDR Benjamin K Evans, NOAA
Chief, Pacific Hydrographic Branch

Digitally signed by EVANS.BENJAMIN.K.1237217094
Reason: I am approving this document
Date: 2015.08.19 13:15:35 -07'00'

FROM: Peter Holmberg
Cartographic Team Lead, Pacific Hydrographic Branch

Digitally signed by HOLMBERG.PETER.SCOTT.1365886101
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=OTHER, cn=HOLMBERG.PETER.SCOTT.1365886101
Date: 2015.08.19 11:18:29 -07'00'

SUBJECT: Recommendation for chart updates

F00627 (Project S-B936-NRT5-12, Jamaica Bay, NY) was a survey in response to Hurricane Sandy. Due to the delay in excess of 2 years from the completion of data acquisition to the processing branch it has been determined that for such a highly changeable area, only the shoalest depths and features located by the survey are suitable for charting. Soundings and features were divided into two categories of priority; DTON and Chart Letter. Features of greater significance were submitted MCD in a DTON report on July 6, 2015. A chart worthy sounding and two features of a lesser significance are listed below.

PHB recommends that the sounding and features be added to RNC 12350 and ENC US5NY50M as well as all other appropriate scale NOAA chart products.

Chart 31 foot shoal sounding located at: 40-36-29.3N, 73-47-03.5W (figure 1).

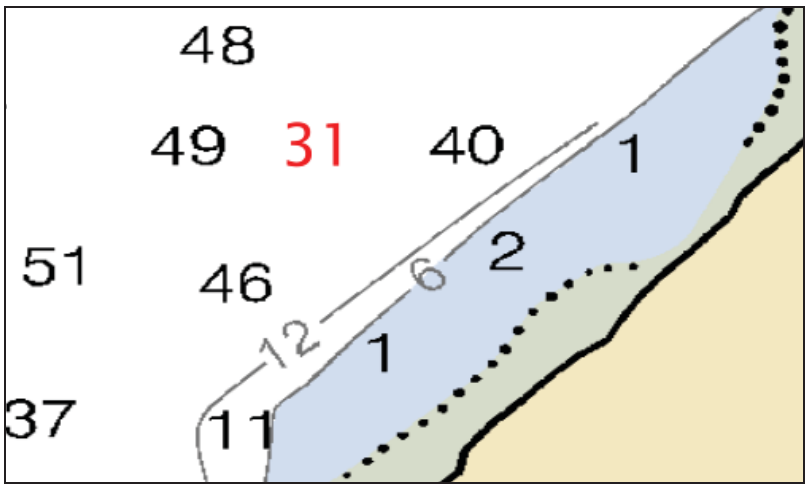

Figure 1.

Chart wreck with a least depth of 21 feet located at: 40-35-00.9N, 73-50-20.8W (figure 2).

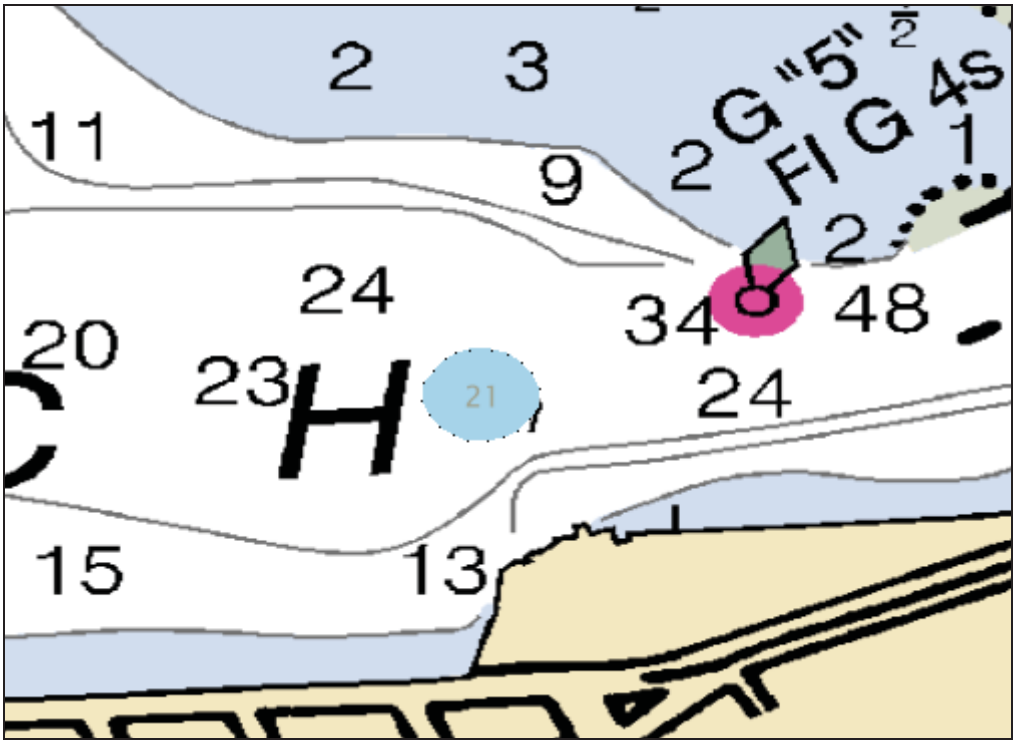

Figure 2.

Chart wreck with a least depth of 42 feet located at: 40-36-12.6N, 73-47-28.5W (figure 3).

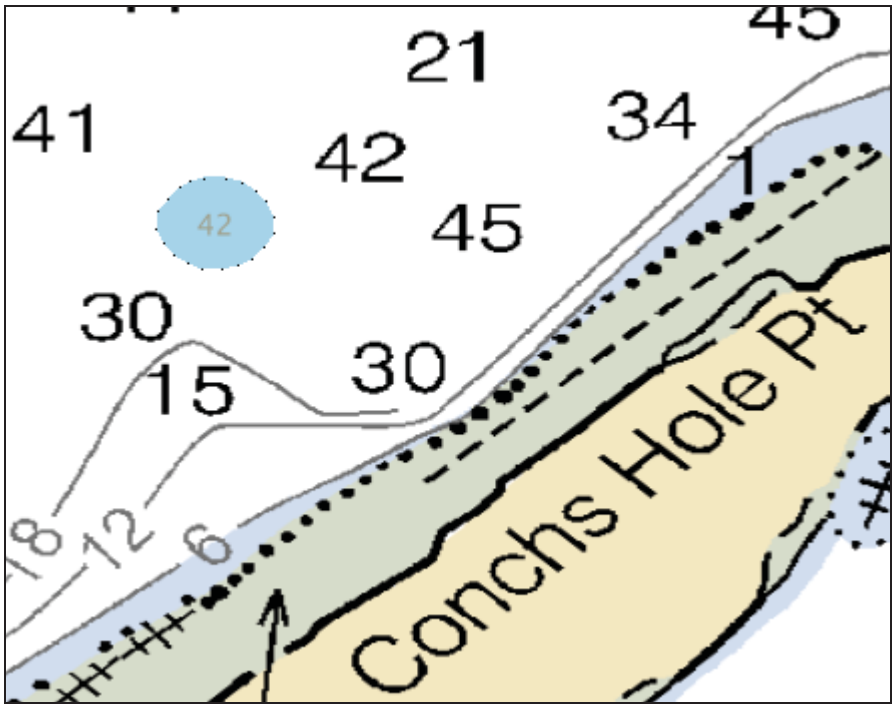

Figure 3.

APPROVAL PAGE

F00627

Data did not meet current specifications as determined by the OCS survey acceptance review process. F00627 did not meet specifications because it was a time sensitive response survey where course hydrography (without full correctors applied) was adequate to reopen the channels in Jamaica Bay. With the exception of select shoal soundings and wrecks identified in the DTON report and chart letter included above, the survey will not be applied to NOAA charting products.

The following products will be sent to NGDC for archive:

- F00627_DR_Memo.pdf
- Processed survey data and records
- F00627_GeoImage.pdf

The survey evaluation and verification has been conducted according to current OCS specifications and procedures.

Approved: Digitally signed by HOLMBERG.PETER.SCOTT.1365886101 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=OTHER, cn=HOLMBERG.PETER.SCOTT.1365886101 Date: 2015.08.20 08:12:49 -07'00'

Peter Holmberg
Cartographic Team Lead, Pacific Hydrographic Branch

The survey has not been approved for chart updates. The data will be archived at NGDC so that it can be made available for other uses.

Approved: Digitally signed by EVANS.BENJAMIN.K.1237217094 Reason: I am approving this document Date: 2015.08.19 17:10:38 -07'00'

CDR Benjamin K. Evans, NOAA
Chief, Pacific Hydrographic Branch