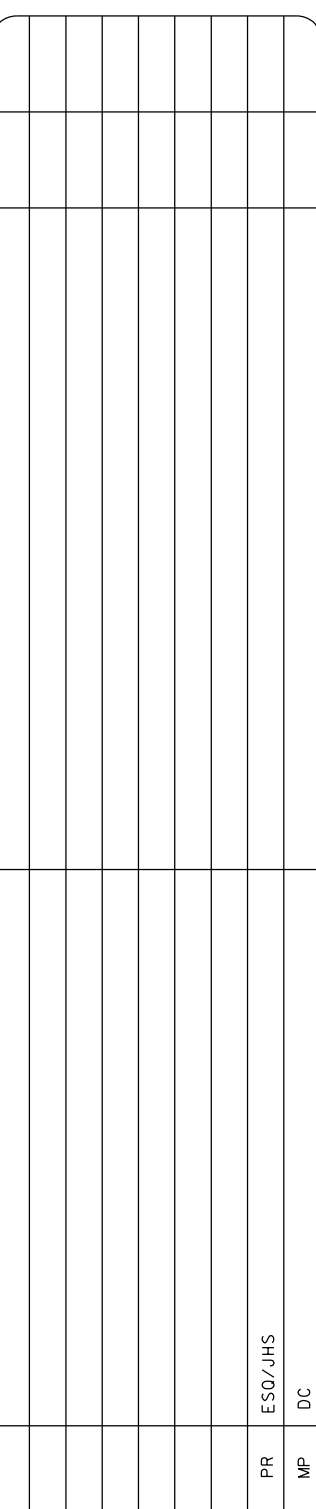


- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS A GENERAL GUIDE.
 - THE SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACQUISITION STANDARDS.
 - COORDINATES REFER TO US STANDARD MAP COORDINATE SYSTEM NAD 93.
 - THE SOUNDINGS ON THIS MAP ARE TO THE NEAREST 0.1 FEET.
 - SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER.
 - MEAN LOWER LOW WATER IS 2.9-3.0 FEET BELOW NAVD83 AS DETERMINED USING VDATUM IVF9, 3.01.
 - SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 30° INTERVAL.
 - SOUNDINGS DEPICTED ON THIS MAP ARE THE 3' x 3' MEDIAN DATA SET.
 - THE INFORMATION DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
 - AERIAL IMAGERY PERFORMED BY JUNE 2015.
 - THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
 - THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM THE NVDOT NETWORK.
 - THIS MAP IS IN FULL COMPLIANCE IN ACCORDANCE WITH EM 1110-2-8166 AND EM 1110-2-6066.



SCALE: ONE INCH = 100 FEET	DATES OF SURVEY: _____ 28 FEB. 11 MAR. 2019 _____
FIELD BOOKS: _____ _____ _____	FILE NO.: 1004 REQUEST NO.: 481111

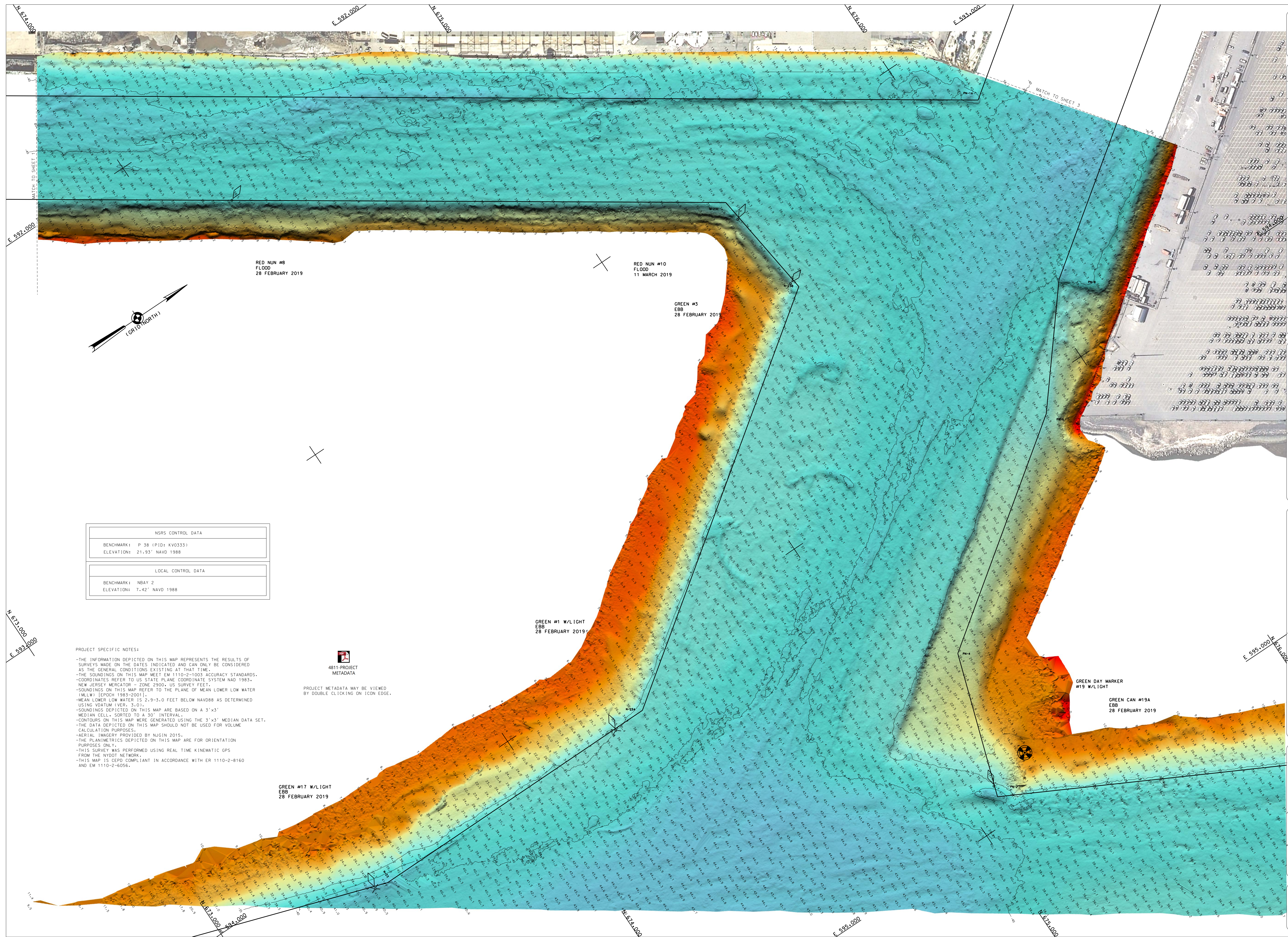
APPROVED: J. BERGLUND 1011 230929Z 1011 230929Z APPROVED: M. FORT 1011 230929Z APPROVED: D. CLARKE 1011 230929Z APPROVED: J. MAZ 1011 230929Z DATE: 28 MARCH 2019	OPERATIONS DIVISION SURVEY SECTION CEMAN-0A-S
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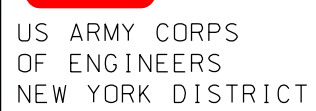
NEWARK BAY, HACKENSACK & PASSAIC RIVERS
NEW JERSEY
PORT NEWARK & PIERHEAD CHANNEL
CONDITION SURVEY

VH-102

SHEET 2 OF 4

FILE NO. 1004
REQ NO. 4811



[illegible]

SCALE : ONE INCH = 100 FEET	DATES OF SURVEY : _____ 28 FEB. 11 MAR. 2019 _____
FIELD BOOKS : _____ _____ _____	FILE NO. : 1004 REQUEST NO. : 4811M1

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

APPROVED: J. A. BERTOLOTTI
VICE COMMANDER

APPROVED: M. F. ERBE
VICE COMMANDER

OPERATIONS DIVISION
SURVEY SECTION
CEMAN-OP-8

APPROVED: J. L. MEATZ
DEPUTY CHIEF OF STAFF

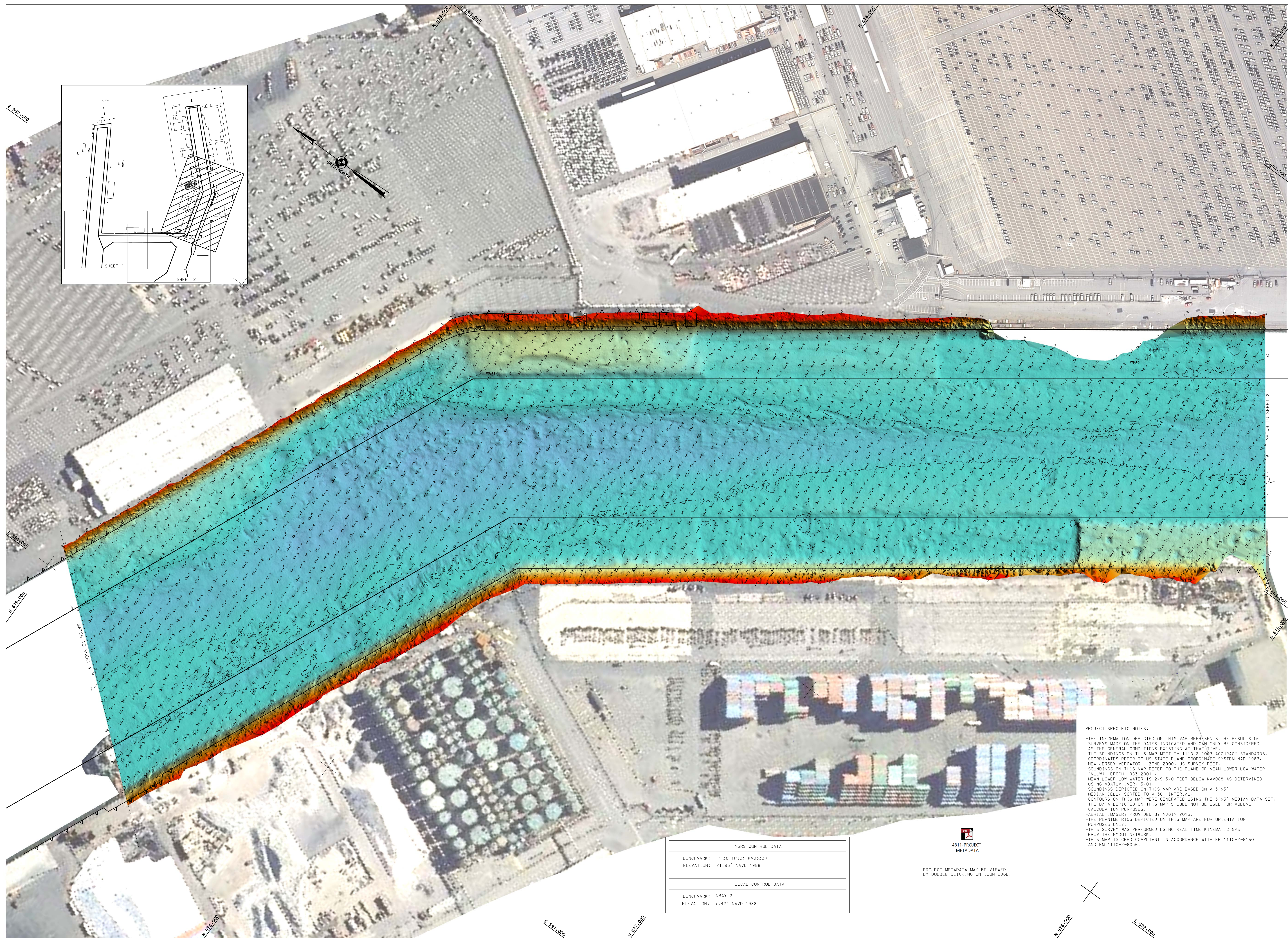
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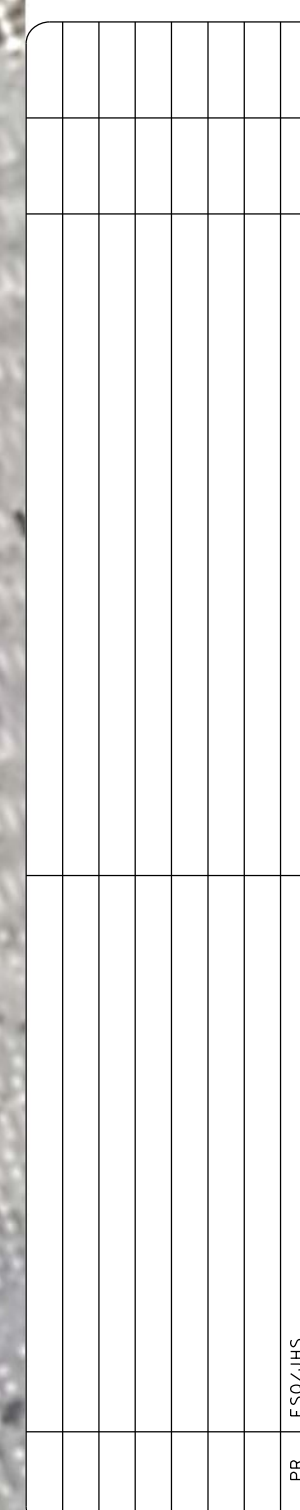
NEWARK BAY, HACKENSACK & PASSAIC RIVERS
NEW JERSEY
PORT NEWARK & PIERHEAD CHANNEL
CONDITION SURVEY

VH-103

SHEET 3 OF 4

FILE NO. 1004
REQ NO. 4811





DATES OF SURVEY: 28 FEB. 11 MAR. 2019

FILE NO.: 1004

100

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: J. BERTOLUCCI
FIELD PARTICIPANT

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LOCAL GOVERNMENT

APPROVED: J. MRAZ
MANAGING DIRECTOR OF OPERATIONS

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS
NEW JERSEY
PORT NEWARK & PIERHEAD CHANNEL
CONDITION SURVEY

VH-104

SHEET 4 OF 4

FILE NO. 1004
REF NO. 4811

