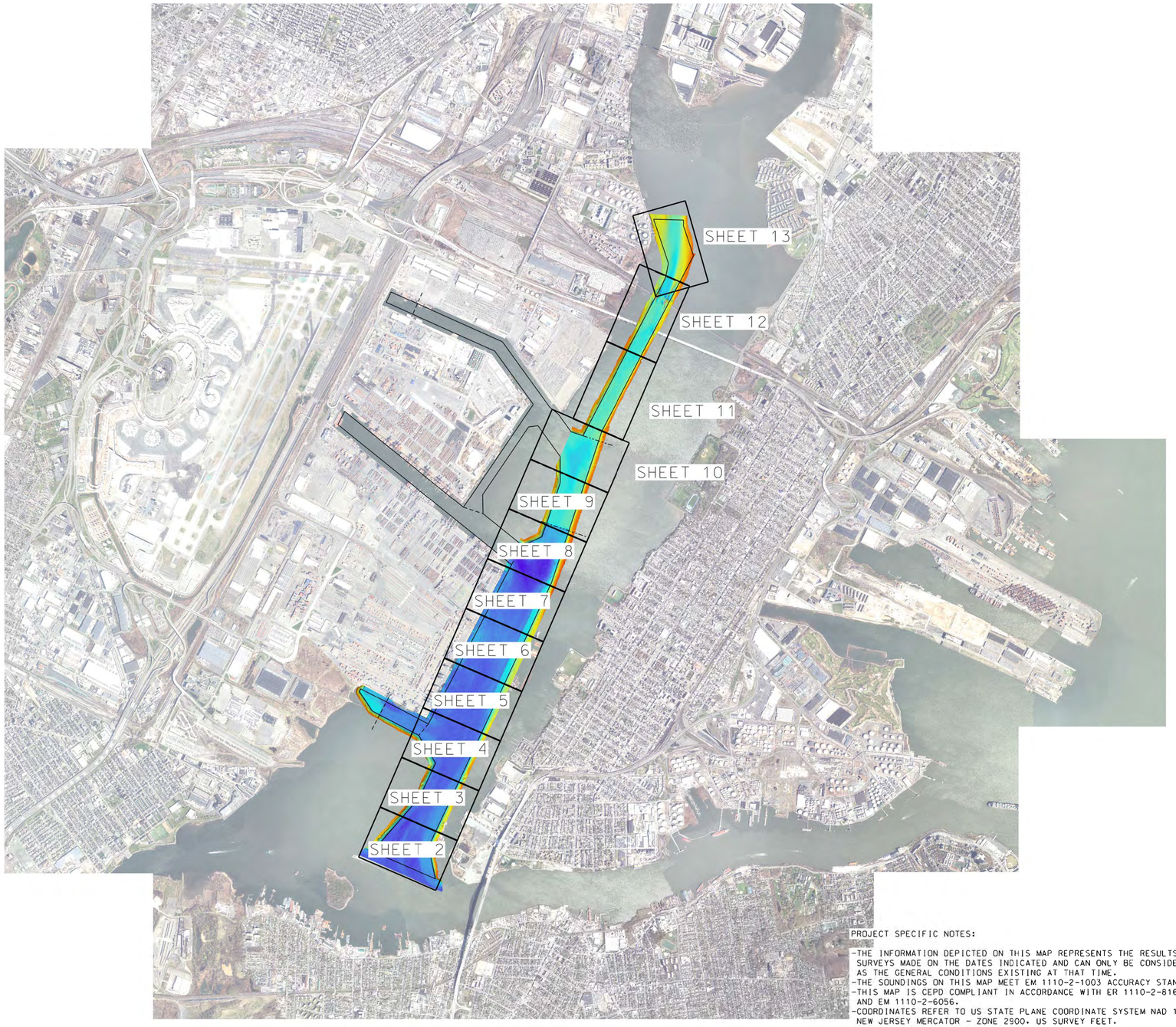



(SPCS)

0 2000' 4000'

| NSRS BENCHMARK | LOCAL CONTROL DATA |
|---|---|
| BENCHMARK: NBAY9 (PID: CM4262) | BENCHMARK: NBAY1 |
| ELEVATION: 7.27' (NAVD 1988) | ELEVATION: 7.27' (NAVD 1988) |

PROJECT SPECIFIC NOTES:

-THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
-THE SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.
-COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983. NEW JERSEY MERCATOR - ZONE 2900. US SURVEY FEET.
-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].
-MEAN LOWER LOW WATER IS 3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.6.1).
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3'x 3' MEDIAN CELL. SORTED TO A 30' INTERVAL.
-CONTOURS ON THIS MAP WERE GENERATED USING THE 3'x 3' DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-AERIAL IMAGERY PROVIDED BY NYGIN 2022 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN PT BASE. NBAY2 & NYDOT RTN"

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | PR | CM-FD-SG |
|---|---|---|
| | VP | CM-SG |

DATES OF SURVEY:
2-6,9-10-12,16-18 DECEMBER 2024
2 JANUARY 2025

SCALE: ONE INCH = 2000 FEET

FIELD BOOKS:
DNA10

REG. NO./FILE NO.: 1519 0/CN1/NB2-N4

APPROVED: P.KEARNS/J.MCKELVEY
FIELD CARTOGRAPHER

APPROVED: B. HIGGINS
LEAD CARTOGRAPHER

APPROVED: P. BRADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIKE
CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 8 JANUARY 2025

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

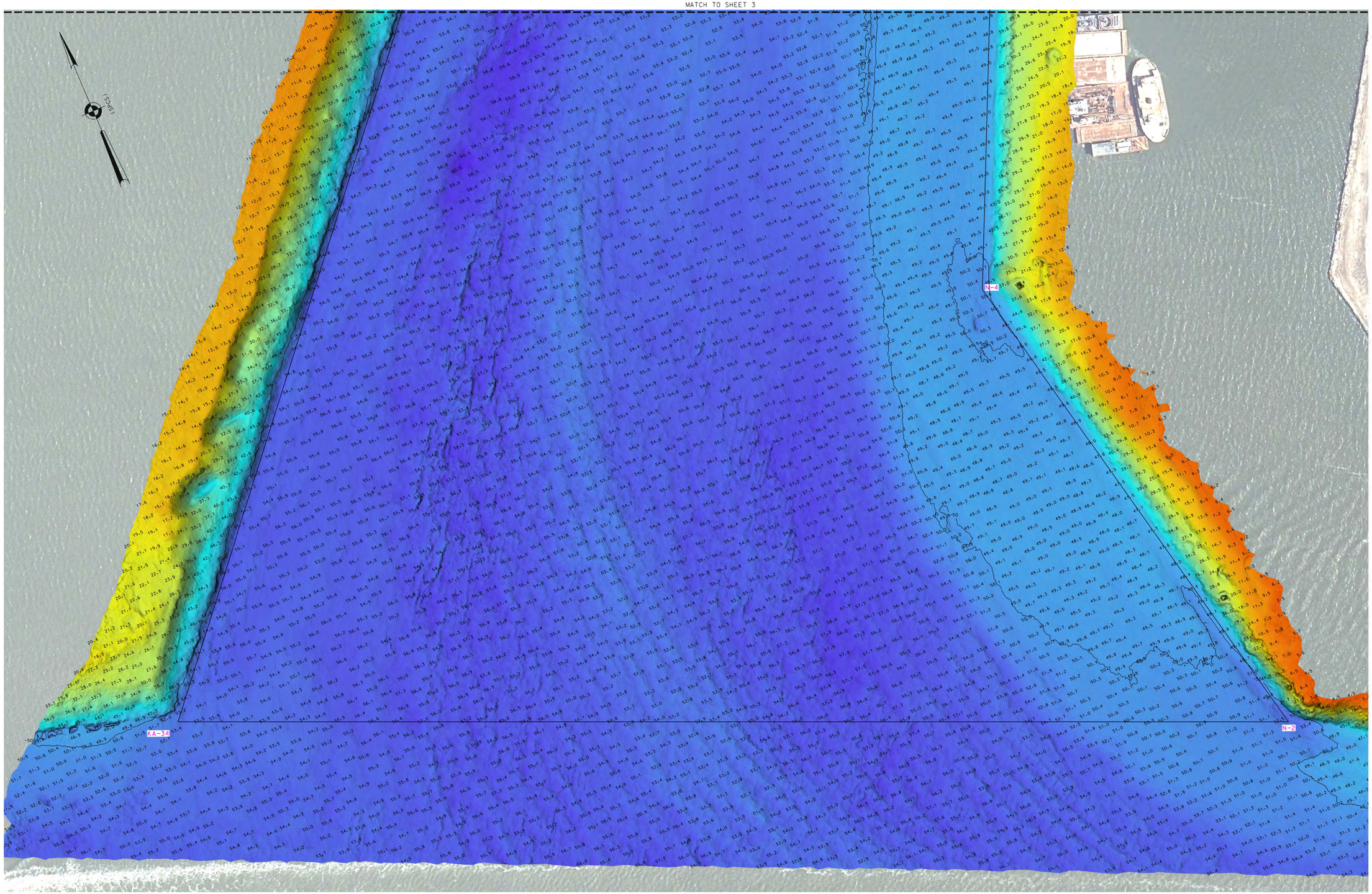
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

# NEWARK BAY HACKENSACK & PASSAIC RIVER
## NEWARK BAY MAIN CHANNEL
## NEW JERSEY
## CONDITION SURVEY

VH-101

1 OF 13

MATCH TO SHEET 3




0 100' 200'

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | |
|---|---|
| PR | CM-EQ-SG |
| MP | CM-SG |

DATES OF SURVEY:
2,6,9,10-12,16-18 DECEMBER 2024
2 JANUARY 2025

REQ. NO./FILE NO.: 1519:0/N/:N2:H4

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

| | | |
|---|---|---|
| APPROVED: | P.KEARNS/J.MCKELVEY | FIELD CARTOGRAPHER |
| APPROVED: | B. HIGGINS | LEAD CARTOGRAPHER |
| APPROVED: | P. BHADUR | CHIEF OF SURVEY SUPPORT SECTION |
| APPROVED: | MIKE A. CHIEF, SURVEYS AND MAPPING BRANCH | |
| DATE: | 8 JANUARY 2025 | |

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

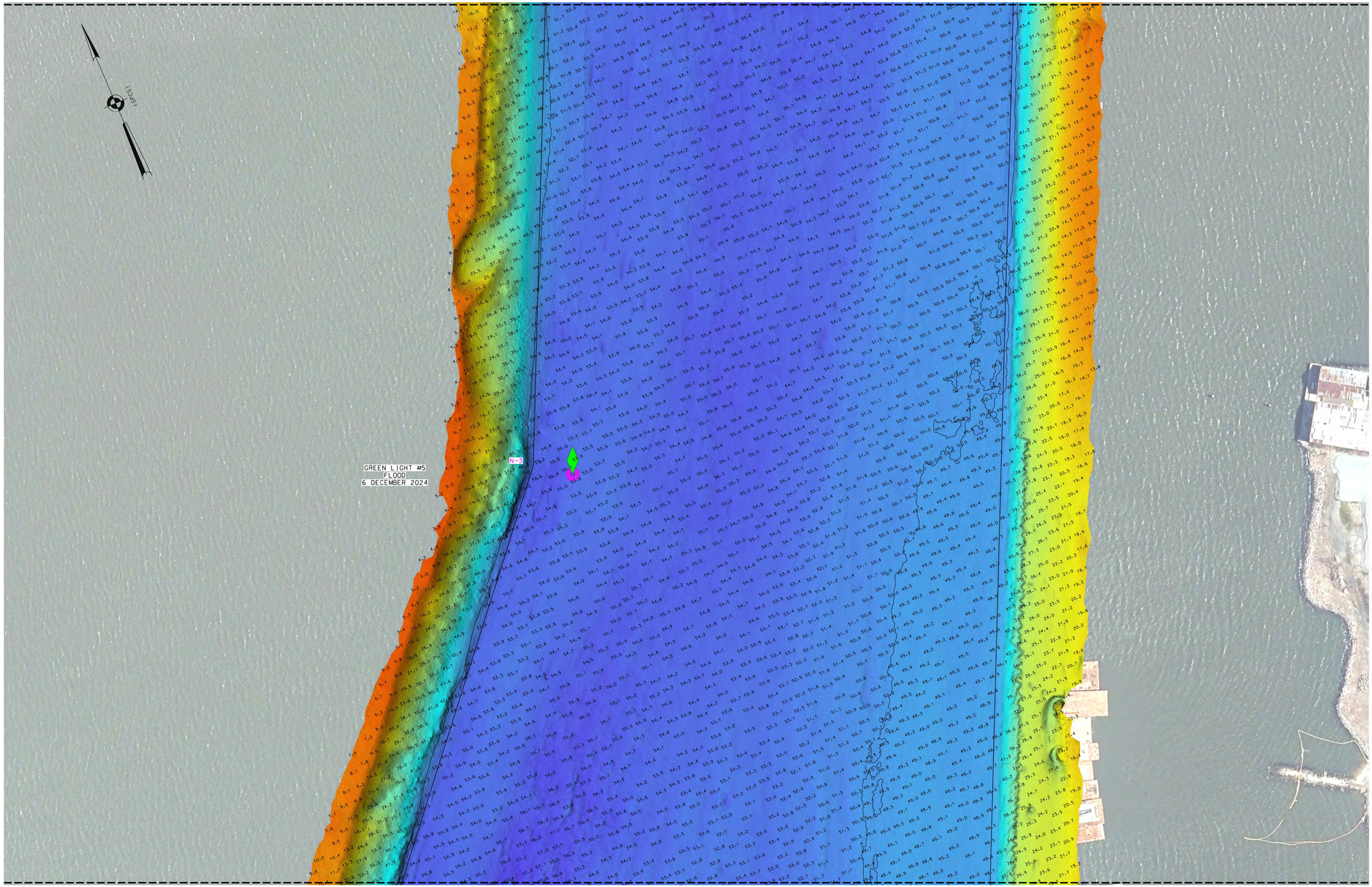
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY HACKENSACK & PASSAIC RIVER
NEWARK BAY MAIN CHANNEL
NEW JERSEY
CONDITION SURVEY

VH-102

2 OF 13

MATCH TO SHEET 4




MATCH TO SHEET 2

0 100' 200'

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | |
|---|---|
| PR | CM-EQ-SG |
| WP | CM-SG |

DATES OF SURVEY:
2-6,9-10-12,16-18 DECEMBER 2024
2 JANUARY 2025

REQ. NO./FILE NO.: 1519:0/N/:N2:HH

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

| | | |
|---|---|---|
| APPROVED: | P.KEARNS/J.MCKELVEY | FIELD CARTOGRAPHER |
| APPROVED: | B. HIGGINS | LEAD CARTOGRAPHER |
| APPROVED: | P. BHADUR | CHIEF OF SURVEY SUPPORT SECTION |
| APPROVED: | MIKE A. BRADY | CHIEF, SURVEYS AND MAPPING BRANCH |
| DATE: | 8 JANUARY 2025 | |

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

# NEWARK BAY HACKENSACK & PASSAIC RIVER
## NEWARK BAY MAIN CHANNEL
## NEW JERSEY
## CONDITION SURVEY

VH-103

3 OF 13

MATCH TO SHEET 5

NS-5

NS-7

(534S)

CAN #1
EBB
2 DECEMBER 2024

N-5

GREEN LIGHT #7
EBB
2 DECEMBER 2024

RED LIGHT #6
FLOOD
6 DECEMBER 2024

MATCH TO SHEET 3

0 100' 200'

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

| | | |
|---|---|---|
| PR | CM-EQ-SG | |
| MP | CM-SG | |

DATES OF SURVEY:
2-6,9-10-12-16-18 DECEMBER 2024
2 JANUARY 2025

REQ. NO./FILE NO.: 1519/01/N/-N2/HM

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

| | | |
|---|---|---|
| APPROVED: | P.KEARNS/J.MCKELVEY | FIELD CARTOGRAPHER |
| APPROVED: | B. HIGGINS | LEAD CARTOGRAPHER |
| APPROVED: | P. BHADUR | CHIEF OF SURVEY SUPPORT SECTION |
| APPROVED: | MIKE A. CHIEF, SURVEYS AND MAPPING BRANCH | |
| DATE: | 8 JANUARY 2025 | |

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

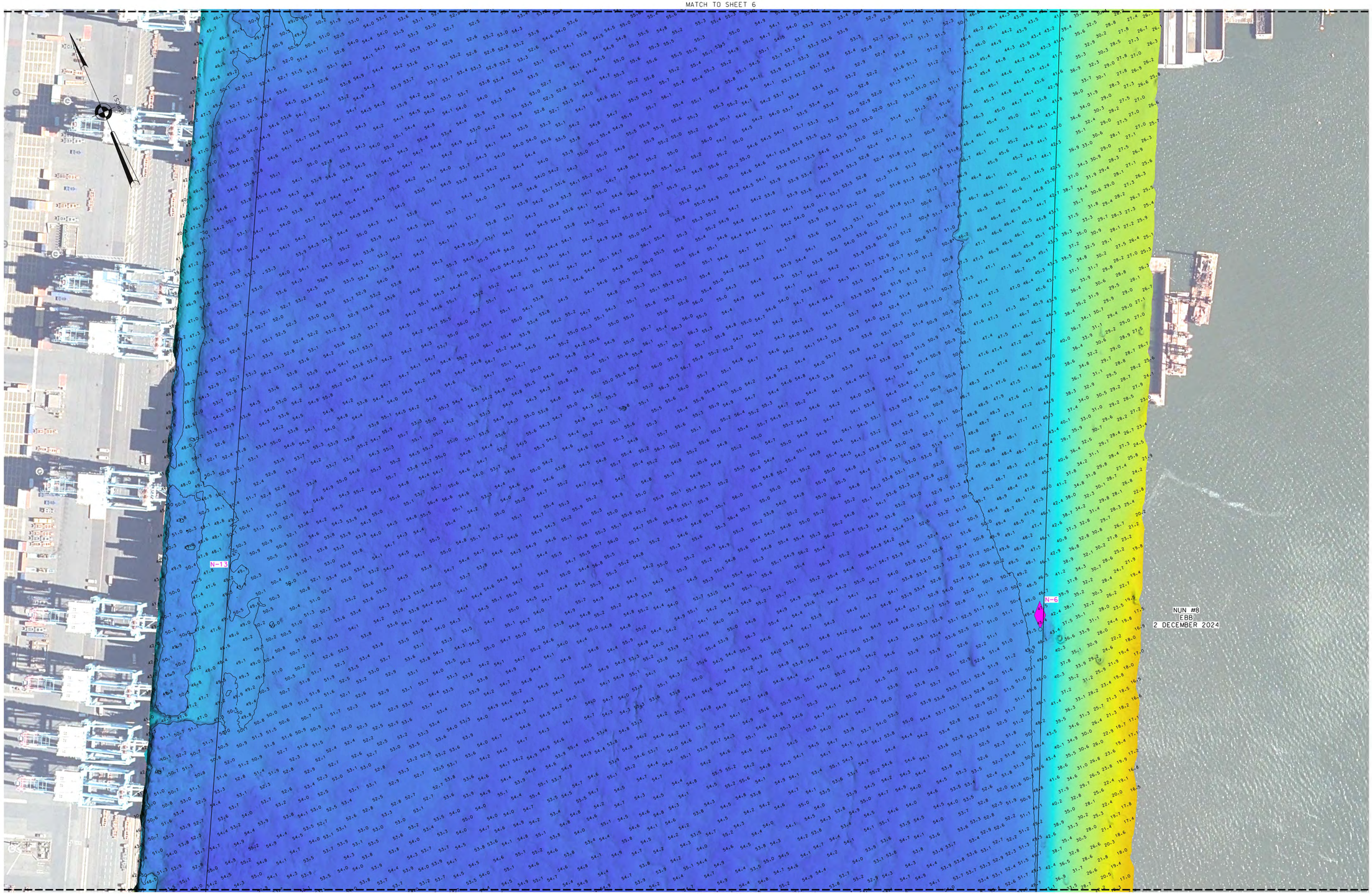
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

# NEWARK BAY HACKENSACK & PASSAIC RIVER
## NEWARK BAY MAIN CHANNEL
## NEW JERSEY
## CONDITION SURVEY

VH-104

4 OF 13

MATCH TO SHEET 6




MATCH TO SHEET 4

0 100' 200'

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | | | |
|---|---|---|---|
| PR | CM-EQ-SG |
| MP | CM-SG |

DATES OF SURVEY:
2-6,9-10-12,16-18 DECEMBER 2024
2 JANUARY 2025

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

REQ. NO./FILE NO.: 1519:0/N:/N2/H4

APPROVED: P.KEARNS/J.MCKELVEY
FIELD CARTOGRAPHER

APPROVED: B. HIGGINS
LEAD CARTOGRAPHER

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIKE
CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 8 JANUARY 2025

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

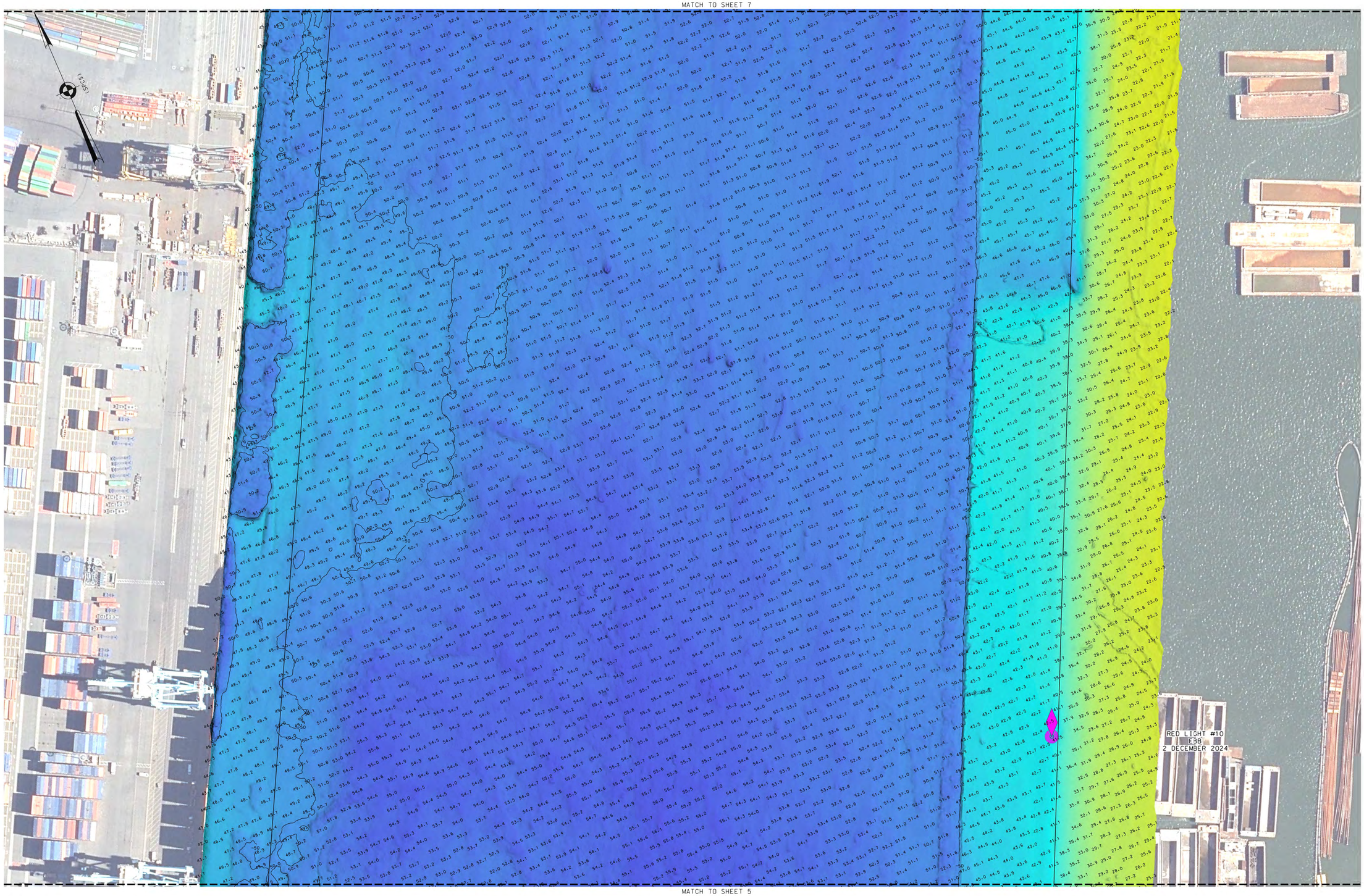
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

# NEWARK BAY HACKENSACK & PASSAIC RIVER
## NEWARK BAY MAIN CHANNEL
## NEW JERSEY
## CONDITION SURVEY

VH-105

5 OF 13

MATCH TO SHEET 7




MATCH TO SHEET 5

0 100' 200'

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | | |
|---|---|---|
| PR | CM-EQ-SG | |
| MP | CM-SG | |

DATES OF SURVEY:
2-6,9-10-12-16-18 DECEMBER 2024
2 JANUARY 2025

REQ. NO./FILE NO.: 1519:0/N:/N2/H4

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

| | | |
|---|---|---|
| APPROVED: | P.KEARNS/J.MCKELVEY | FIELD CARTOGRAPHER |
| APPROVED: | B. HIGGINS | LEAD CARTOGRAPHER |
| APPROVED: | P. BHADUR | CHIEF OF SURVEY SUPPORT SECTION |
| APPROVED: | MIKE A. BRANCH | CHIEF, SURVEYS AND MAPPING BRANCH |
| DATE: | 8 JANUARY 2025 | |

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

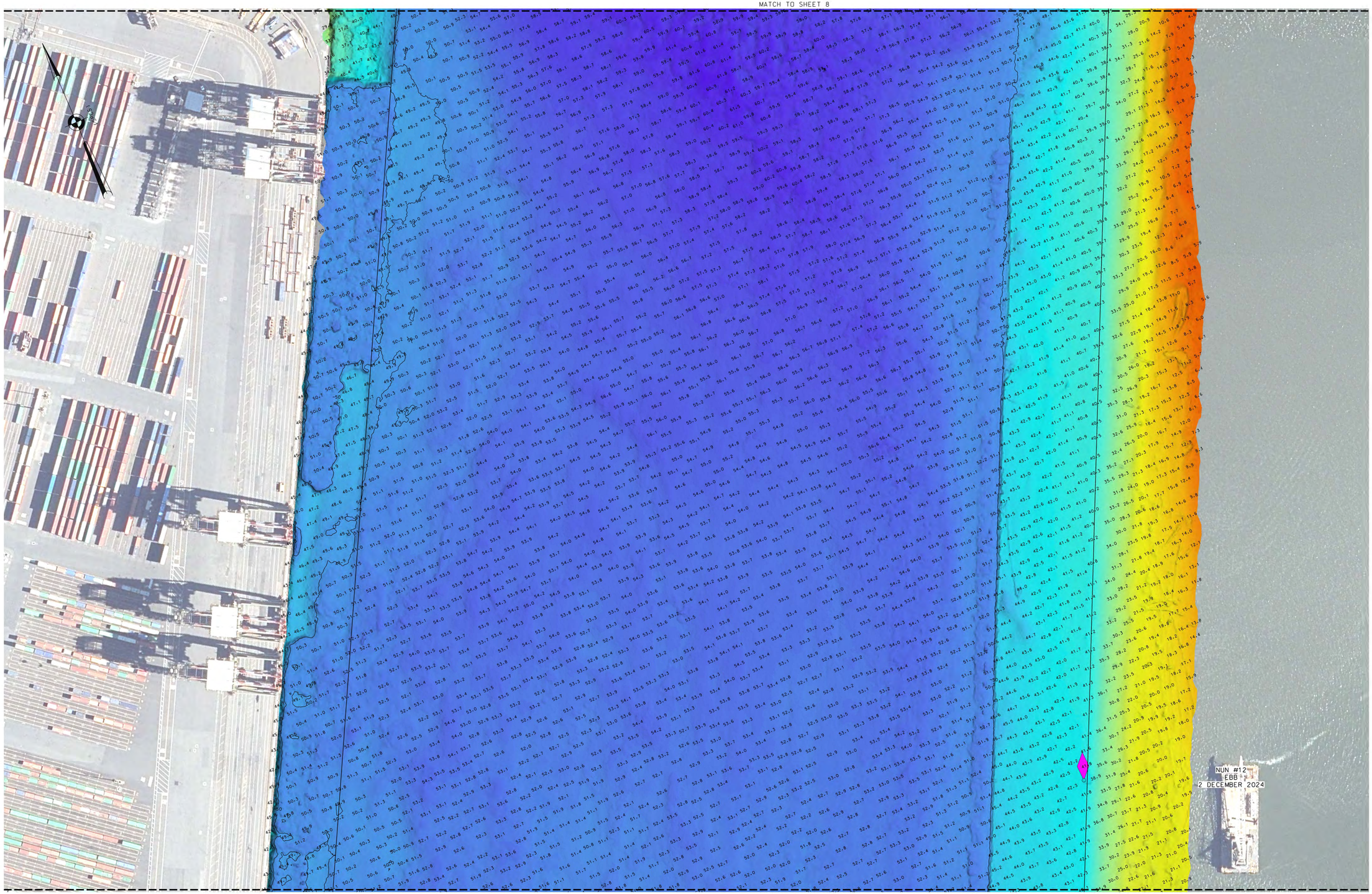
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

# NEWARK BAY HACKENSACK & PASSAIC RIVER
## NEWARK BAY MAIN CHANNEL
## NEW JERSEY
## CONDITION SURVEY

VH-106

6 OF 13

MATCH TO SHEET 8




MATCH TO SHEET 6

0 100' 200'

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | |
|---|---|
| PR | CM-EQ-SG |
| MP | CM-SG |

DATES OF SURVEY:
2-6,9-10-12-16-18 DECEMBER 2024
2 JANUARY 2025

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DN410

REQ. NO./FILE NO.: 1519/01/N/NZ/HH

APPROVED: P.KEARNS/J.MCKELVEY
FIELD CARTOGRAPHER

APPROVED: B. HIGGINS
LEAD CARTOGRAPHER

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIKE
CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 8 JANUARY 2025

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY HACKENSACK & PASSAIC RIVER
NEWARK BAY MAIN CHANNEL
NEW JERSEY
CONDITION SURVEY

VH-107

7 OF 13

MATCH TO SHEET 9

CAN #15
EBB
9 DECEMBER 2024

N-19

NUN #2
FLOOD
9 DECEMBER 2024

NE-17

NE-15

RED LIGHT #14
FLOOD
6 DECEMBER 2024

N-8

MATCH TO SHEET 7

0 100' 200'

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

| | | | | | | | | | | PR | CM-EO-SG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | MP | CM-SG |

DATES OF SURVEY:
2-6,9-10-12,16-18 DECEMBER 2024
2 JANUARY 2025

REQ. NO./FILE NO.: 1519.01/N1/N2/N4

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

APPROVED: P.KEARNS/J.MCKELVEY
FIELD CARTOGRAPHER

APPROVED: B. HIGGINS
LEAD CARTOGRAPHER

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIKE
CHIEF, SURVEYS AND MAPPING BRANCH

DATE: 8 JANUARY 2025

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

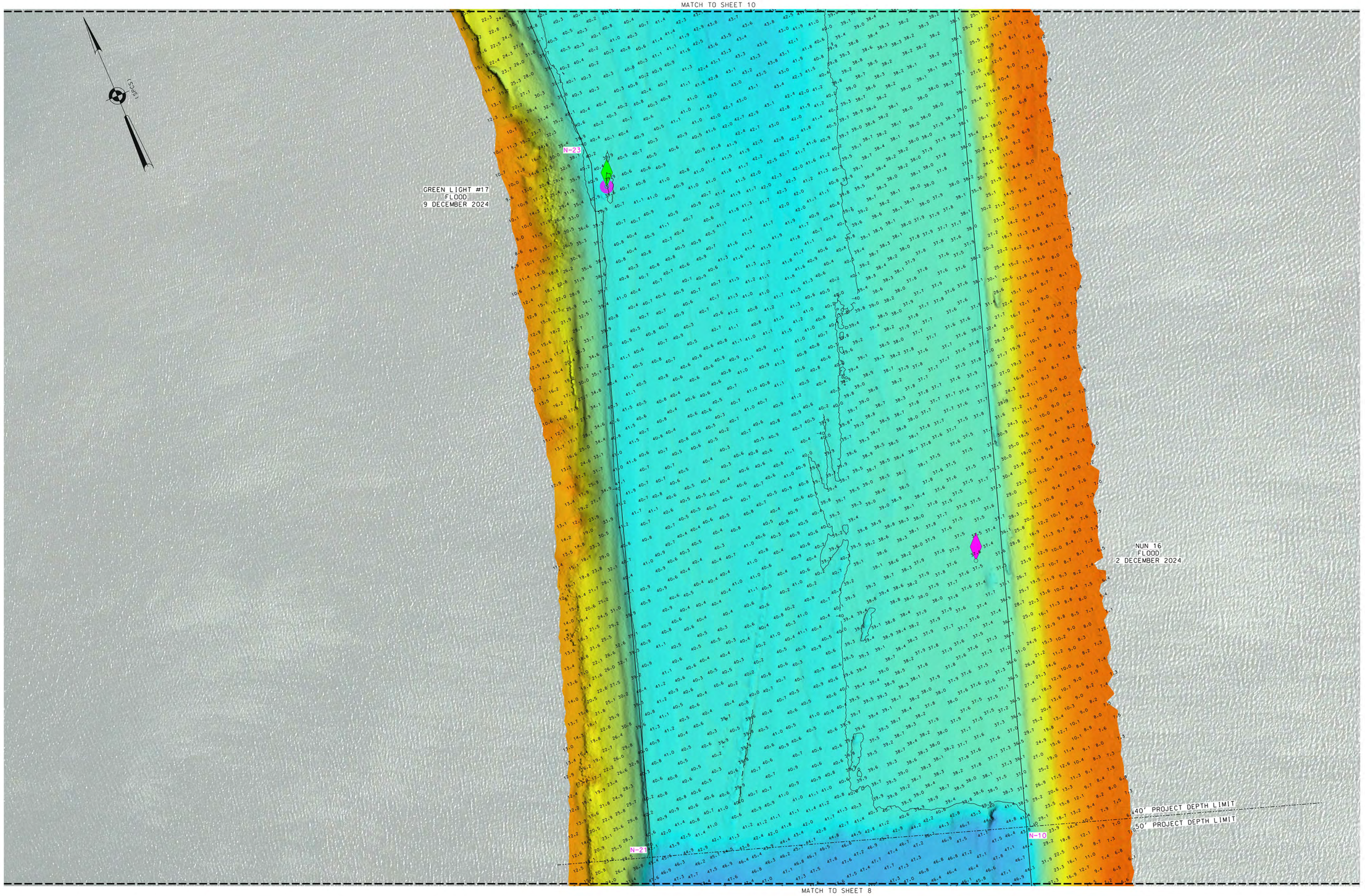
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

# NEWARK BAY HACKENSACK & PASSAIC RIVER
## NEWARK BAY MAIN CHANNEL
## NEW JERSEY
## CONDITION SURVEY

VH-108

8 OF 13

MATCH TO SHEET 10




MATCH TO SHEET 8

0 100' 200'

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | | |
|---|---|---|
| PR | CM-EQ-SG | |
| MP | CM-SG | |

DATES OF SURVEY:
2-6,9-10-12-16-18 DECEMBER 2024
2 JANUARY 2025

REG. NO./FILE NO.: 1519.01/N/NZ/HH

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

| | | |
|---|---|---|
| APPROVED: | P.KEARNS/J.MCKELVEY | FIELD CARTOGRAPHER |
| APPROVED: | B. HIGGINS | LEAD CARTOGRAPHER |
| APPROVED: | P. BHADUR | CHIEF OF SURVEY SUPPORT SECTION |
| APPROVED: | MIKE A. BRADY | CHIEF, SURVEYS AND MAPPING BRANCH |
| DATE: | 8 JANUARY 2025 | |

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

# NEWARK BAY HACKENSACK & PASSAIC RIVER
## NEWARK BAY MAIN CHANNEL
## NEW JERSEY
## CONDITION SURVEY

VH-109

9 OF 13

MATCH TO SHEET 11

PN-6

CAN #1
FLOOD
10 DECEMBER 2024

PN-2

PN-4

N-12

35' PROJECT DEPTH LIMIT

40' PROJECT DEPTH LIMIT

RED LIGHT #18
EBB
9 DECEMBER 2024

N-23A

GREENLIGHT #1
FLOOD
9 DECEMBER 2024

MATCH TO SHEET 9

0 100' 200'

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| PR | CM-EQ-SG |
|---|---|
| WP | CM-SG |

DATES OF SURVEY:
2-6,9-10-12,16-18 DECEMBER 2024
2 JANUARY 2025

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

REQ. NO./FILE NO.: 1519/0/N/NB2/HH

| | |
|---|---|
| APPROVED: | P.KEARNS/J.MCKELVEY<br>FIELD CARTOGRAPHER |
| APPROVED: | B. HIGGINS<br>LEAD CARTOGRAPHER |
| APPROVED: | P. BHADUR<br>CHIEF OF SURVEY SUPPORT SECTION |
| APPROVED: | MIKE<br>CHIEF OF SURVEYS AND MAPPING BRANCH |
| DATE: | 8 JANUARY 2025 |

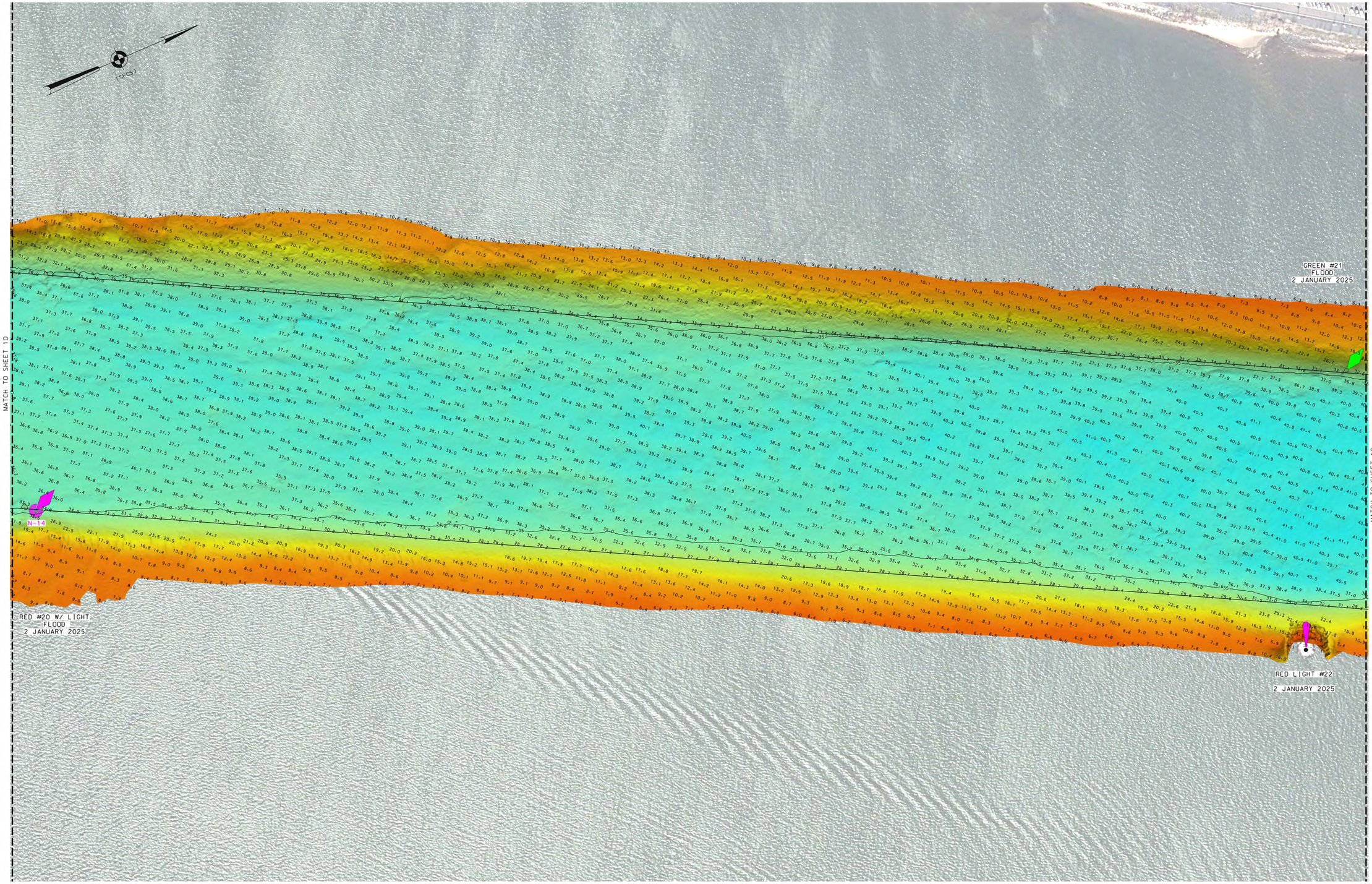
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY HACKENSACK & PASSAIC RIVER
NEWARK BAY MAIN CHANNEL
NEW JERSEY
CONDITION SURVEY

VH-110

10 OF 13




*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | PR | CM-EO-SG |
|---|---|---|
| | MP | CM-SG |

DATES OF SURVEY:
2-6,9-10-12,16-18 DECEMBER 2024
2 JANUARY 2025

REQ. NO./FILE NO.: 1519:0:0/N:/R2/H4

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

APPROVED: P.KEARNS/J.MCKELVEY, FIELD CARTOGRAPHER
APPROVED: B. HIGGINS, LEAD CARTOGRAPHER
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE A. CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 8 JANUARY 2025

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY HACKENSACK & PASSAIC RIVER
NEWARK BAY MAIN CHANNEL
NEW JERSEY
CONDITION SURVEY

VH-111

11 OF 13

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

| | | |
|---|---|---|
| PR | CM-EO-SG | |
| MP | CM-SG | |

DATES OF SURVEY:
2-6,9-10-12-16-18 DECEMBER 2024
2 JANUARY 2025

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

REQ. NO./FILE NO.: 5519:01/N1/H2/H4

APPROVED: P.KEARNS/J.MCKELVEY
FIELD CARTOGRAPHER

APPROVED: B. HIGGINS
LEAD CARTOGRAPHER

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIKE
CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 8 JANUARY 2025

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY HACKENSACK & PASSAIC RIVER
NEWARK BAY MAIN CHANNEL
NEW JERSEY
CONDITION SURVEY

VH-112

12 OF 13

(SPCS)

MATCH TO SHEET V2

N-28

N-27

NH-5

NH-4

NH-3

N-18

N-16

NH-2

RED/GREEN LIGHT "NB"
2 JANUARY 2025

RED #24
EBB
2 JANUARY 2025

RED #2
EBB
2 JANUARY 2025

0 100' 200'

*FOR PROJECT SPECIFIC NOTES AND CONTROL, REFER TO SHEET VH-101.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

| | | |
|---|---|---|
| PR | CM-EQ-SG | |
| MP | CM-SG | |

DATES OF SURVEY:
2-6,9-10-12,16-18 DECEMBER 2024
2 JANUARY 2025

REQ. NO./FILE NO.: 1519/01/N1/N2/N4

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

APPROVED: P.KEARNS/J.MCKELVEY
FIELD CARTOGRAPHER

APPROVED: B. HIGGINS
LEAD CARTOGRAPHER

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIKE A. CHIEF, SURVEYS AND MAPPING BRANCH

DATE: 8 JANUARY 2025

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

# NEWARK BAY HACKENSACK & PASSAIC RIVER
## NEWARK BAY MAIN CHANNEL
## NEW JERSEY
## CONDITION SURVEY

VH-113

13 OF 13