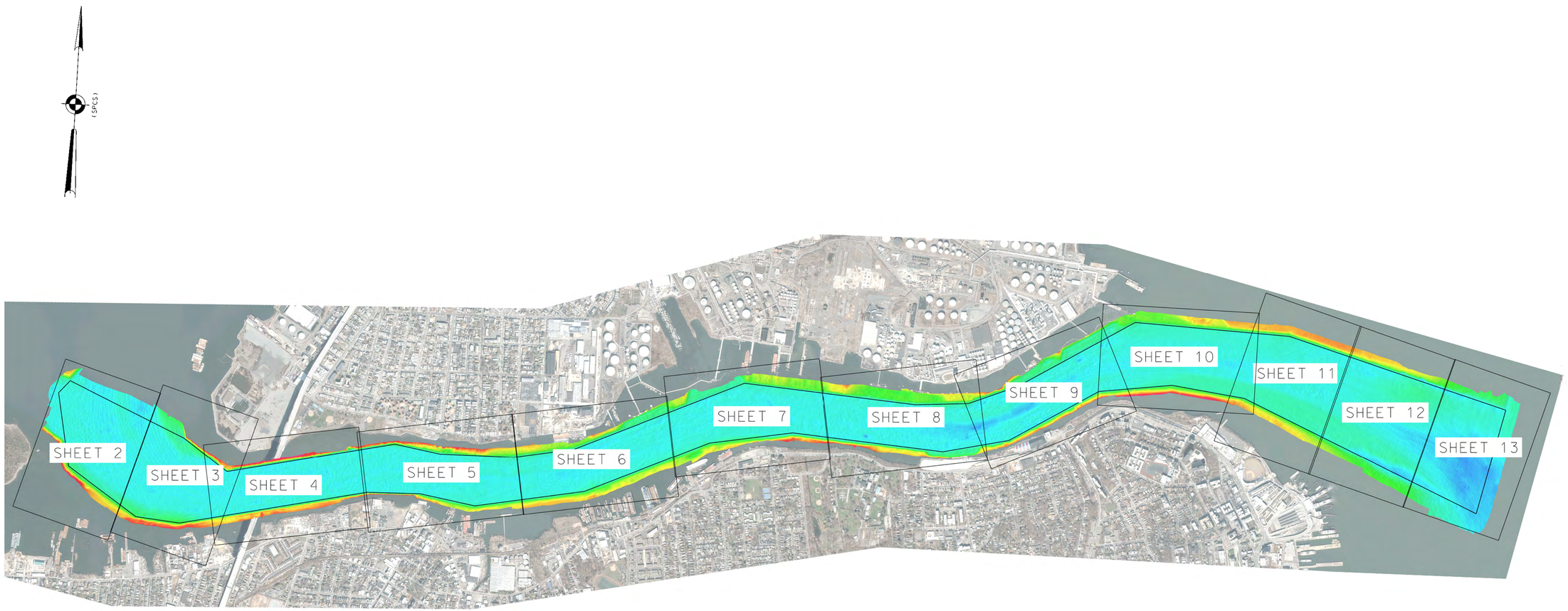


0 1000' 2000'

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 2.8-3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.3).
-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 POINT".

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KV0611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/GM
	WP	GM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

REQ. NO./FILE NO.-52417/N1/N3

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE SCHMIDT, CHIEF, SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

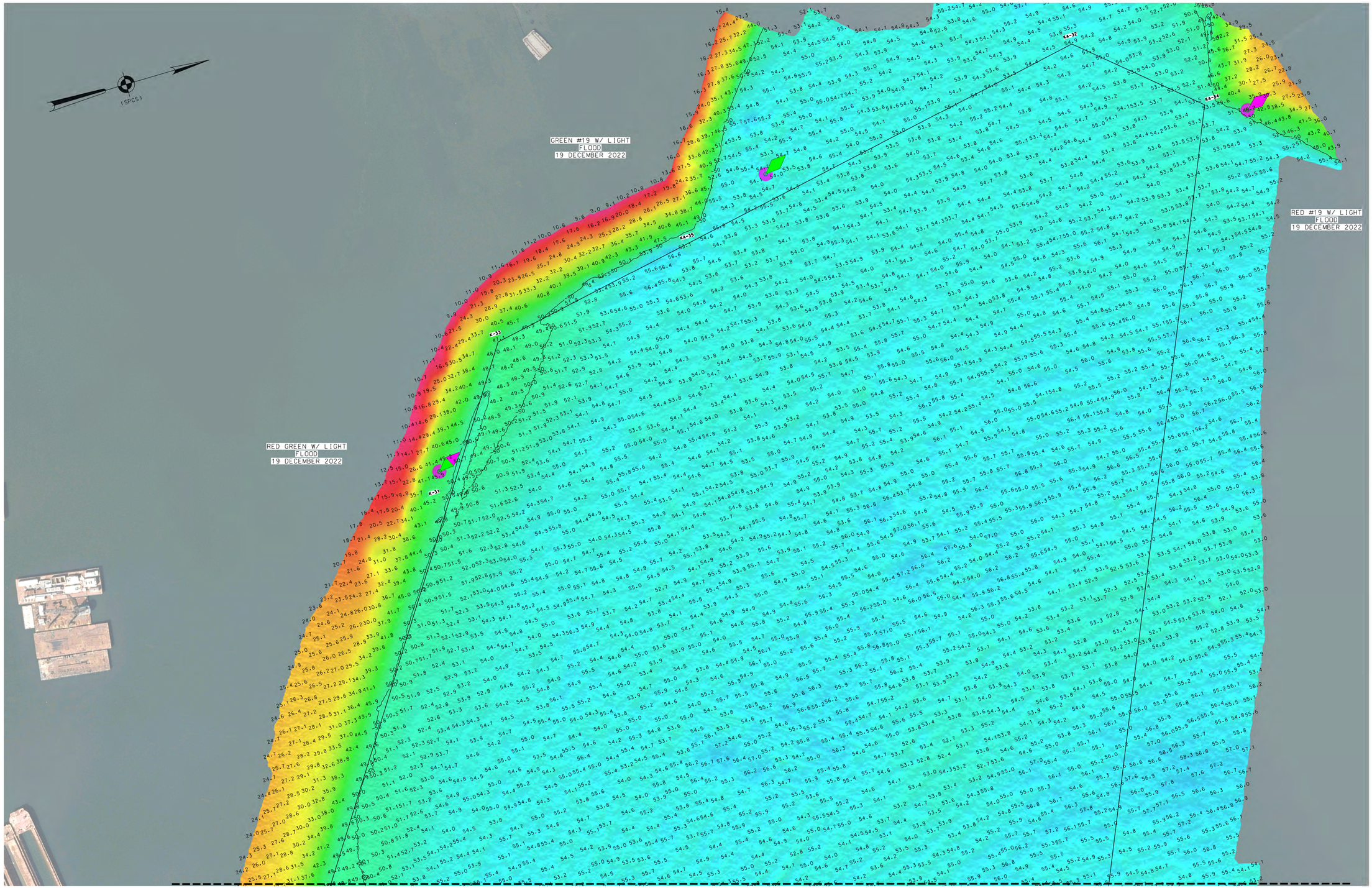
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-101

1 OF 13



MATCH TO SHEET 3

0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KVO611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/CM
	WP	CM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

REG. NO./FILE NO.-15247/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: M. MIRAZ CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

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-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-102

2 OF 13

MATCH TO SHEET 2

DREGDE

GREEN #17 W/ LIGHT
EBB
19 DECEMBER 2022

(SPCS)

RED #2 W/ LIGHT
EBB
19 DECEMBER 2022

RED #16 W/ LIGHT
EBB
14 DECEMBER 2022

MATCH TO SHEET 4

0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KVO611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

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NEW YORK DISTRICT

	PR	ESD/CM
	WP	CM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

REQ. NO./FILE NO.:5247/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

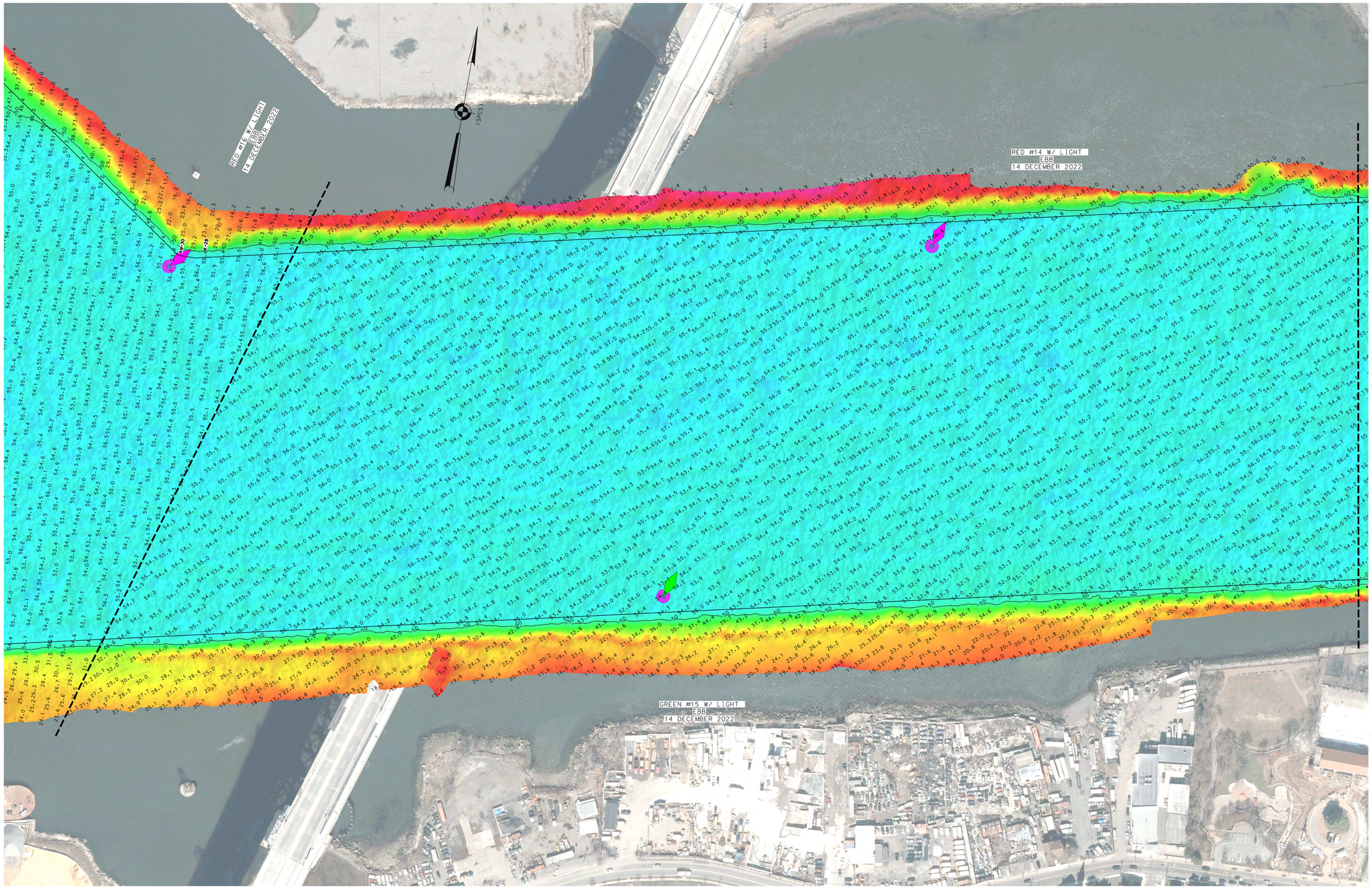
APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: M. KEAZ, CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

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-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-103



0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KVD611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/CM
	WP	CM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

REG. NO./FILE NO.-15247/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

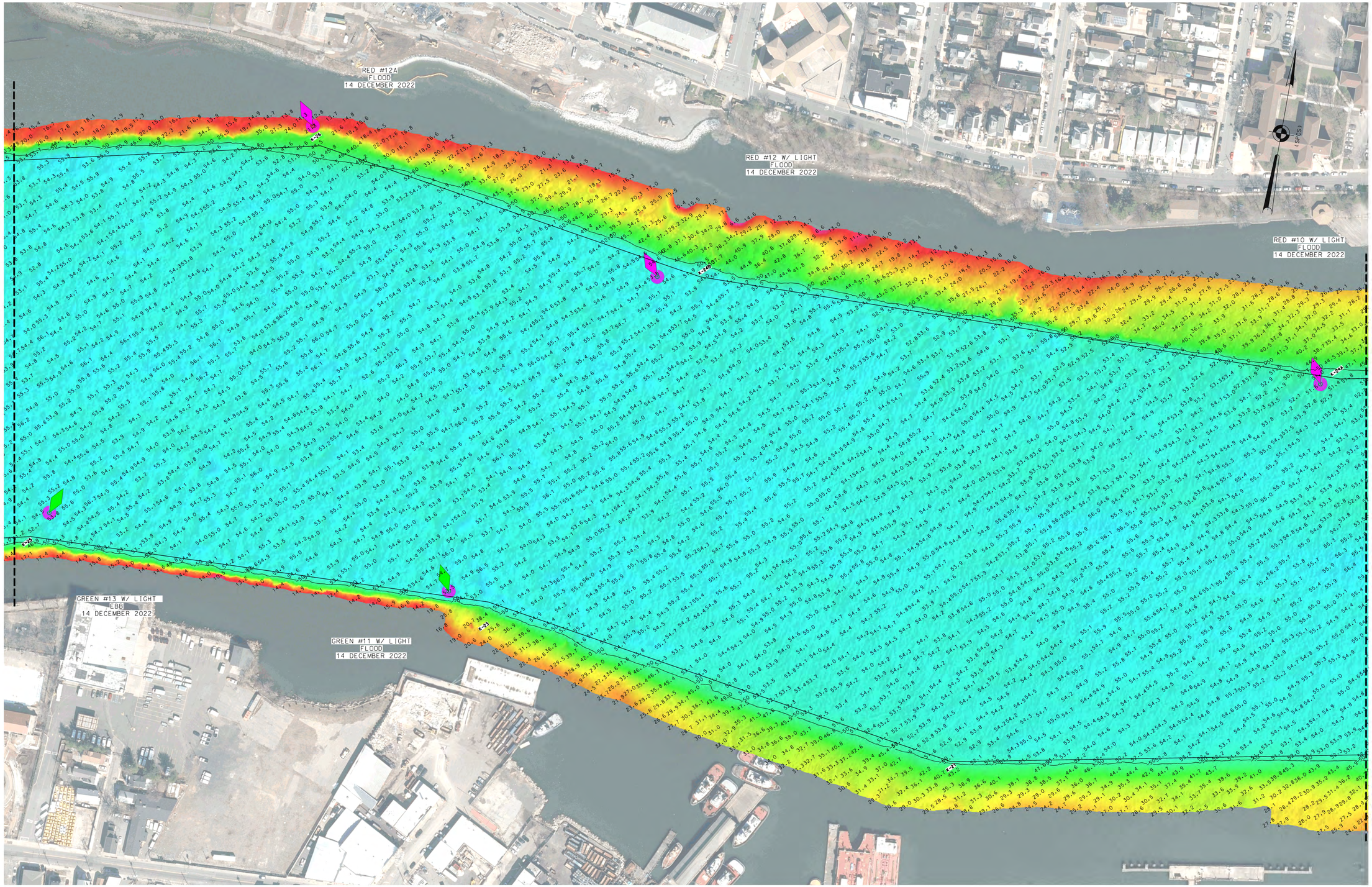
APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE A. CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

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-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-104



REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KV0611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/CM
	WP	CM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

REG. NO./FILE NO.-15247/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

APPROVED:	P. KEARNS	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	M. MEAD	CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:		22 DECEMBER 2022

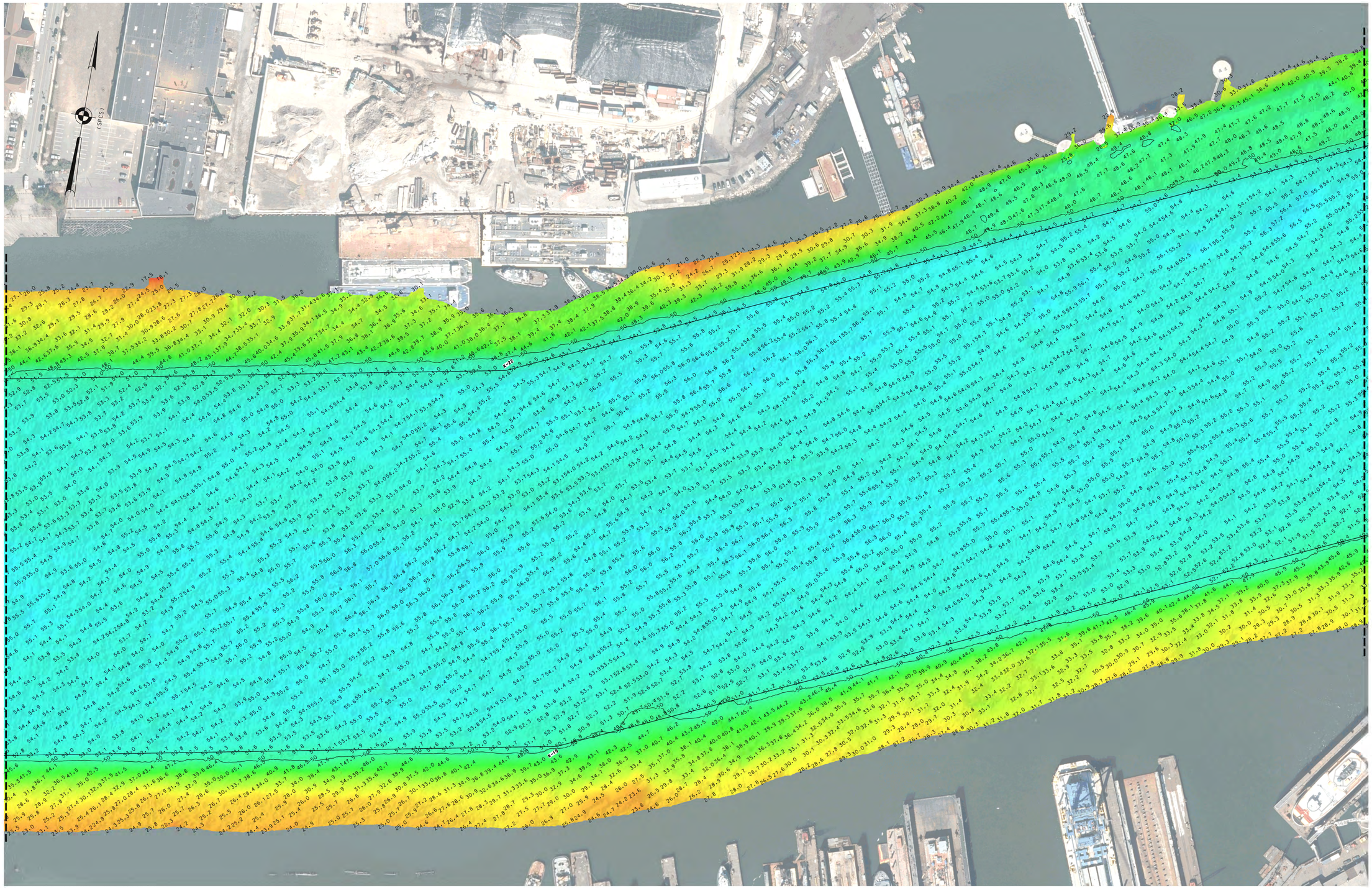
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-105

5 OF 13



0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KVD611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/CM
	MP	CM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

REG. NO./FILE NO.-15247/N1/N3

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE, CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

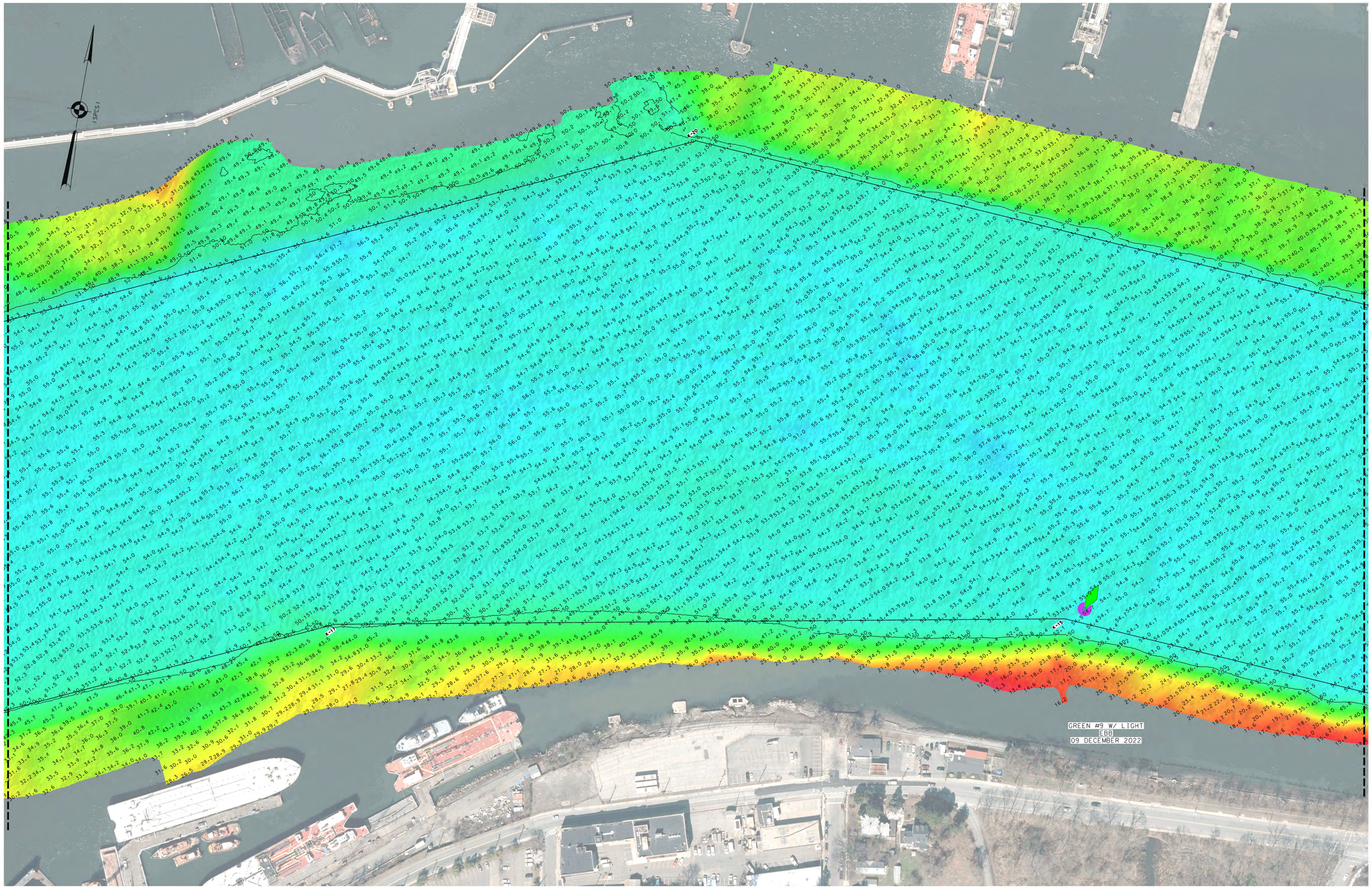
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
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NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-106

6 OF 13



MATCH TO SHEET 6

MATCH TO SHEET 8

0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KVO611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/CM
	WP	CM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

REG. NO./FILE NO.-15247/N1/N3

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE A. CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

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-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-107

7 OF 13

MATCH TO SHEET 7

MATCH TO SHEET 9

SPOIL

0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KV0611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/CM
	MP	CM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

REG. NO./FILE NO.-15247/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

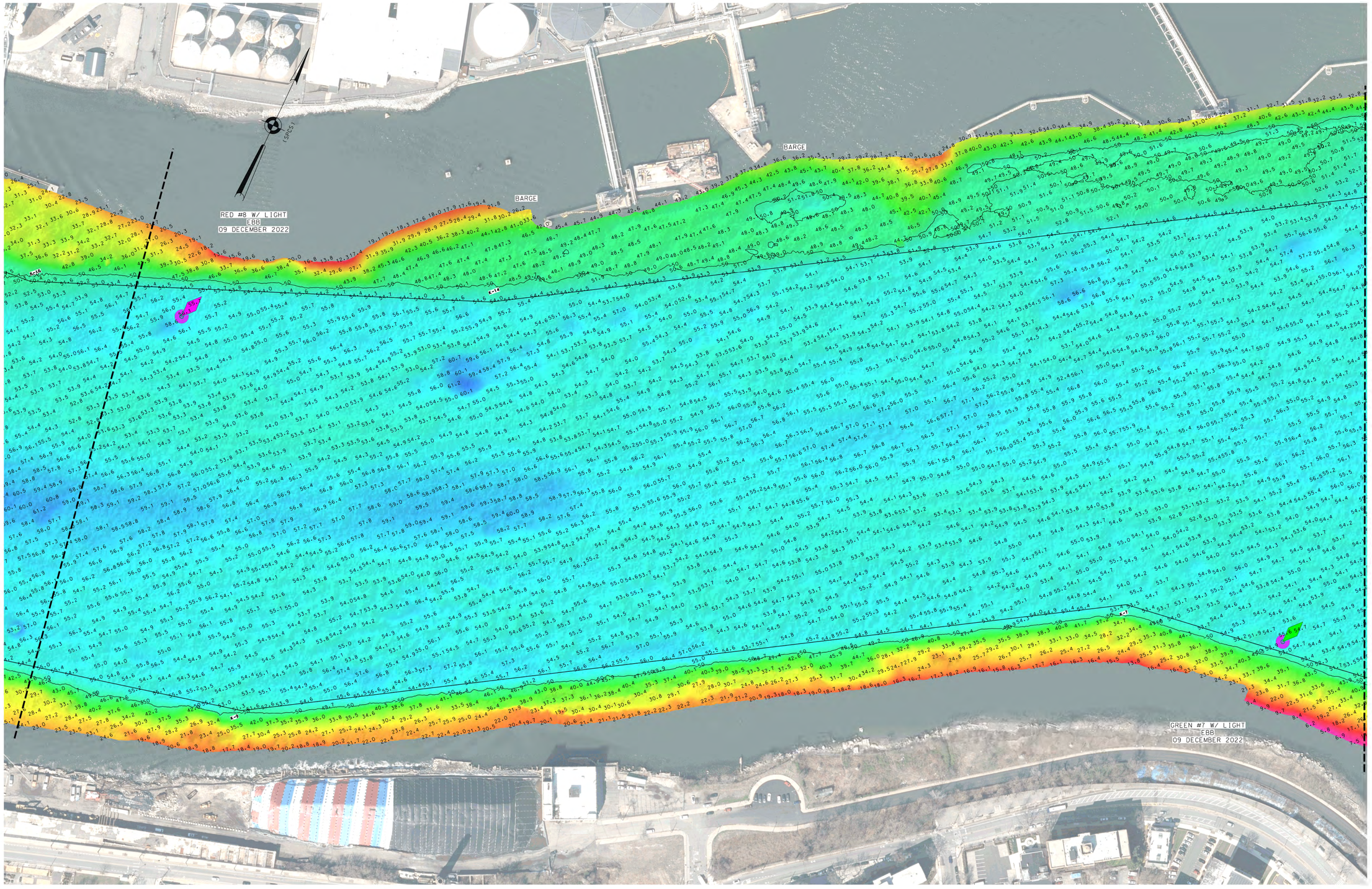
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-108

8 OF 13



0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KVO611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/OM
	WP	OM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

REG. NO./FILE NO.-15247/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: CHIEF, OPERATIONS DIVISION
DATE: 22 DECEMBER 2022

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-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-109

9 OF 13

RED #6 W/ LIGHT
FLOOD
21 DECEMBER 2022

GREEN #5 W/ LIGHT
FLOOD
21 DECEMBER 2022

GREEN #7 W/ LIGHT
EBB
09 DECEMBER 2022

GREEN #3 W/ LIGHT
EBB
20 DECEMBER 2022

MATCH TO SHEET 9

MATCH TO SHEET 11

0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KVO611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/OM
	WP	OM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

REG. NO./FILE NO.-15247/N1/N3

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE A. [illegible], CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

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-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-110

10 OF 13

MATCH TO SHEET 10

GREEN #3 W/ LIGHT
EBB
20 DECEMBER 2022

RED #2 W/ LIGHT
FLOOD
15 DECEMBER 2022

GREEN #1 W/ LIGHT
EBB
20 DECEMBER 2022

MATCH TO SHEET 12

0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KVO611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/CM
	WP	CM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

REG. NO./FILE NO.-15247/N1/N3

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: M. MIRAZ, DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

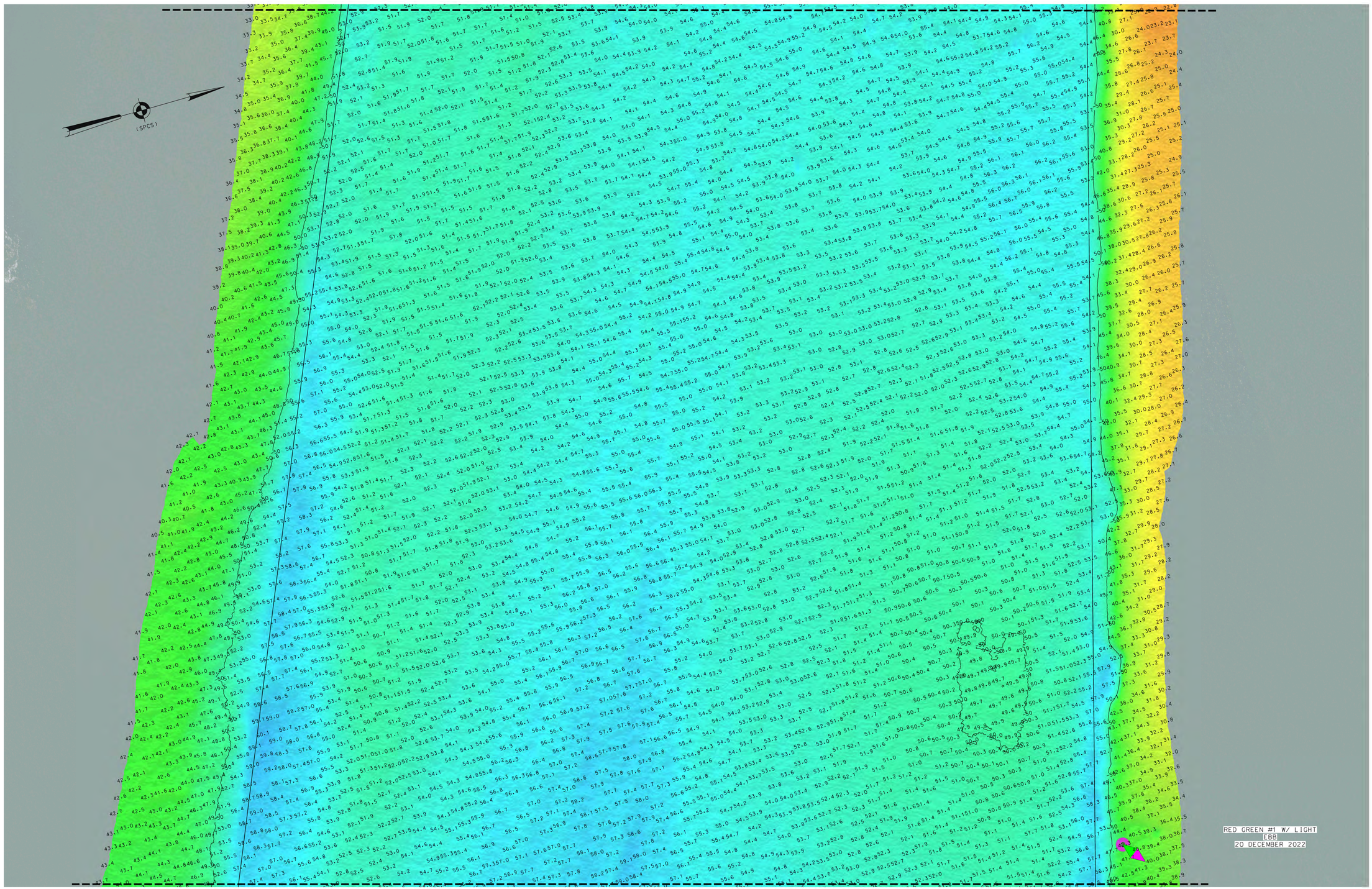
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U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-111

MATCH TO SHEET 11



MATCH TO SHEET 13

0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KVD611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ESD/CM
	WP	CM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
16, 19, 20 DECEMBER 2022

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

REG. NO./FILE NO.:52471/N1/N3

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: M. MIRAZ, DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

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

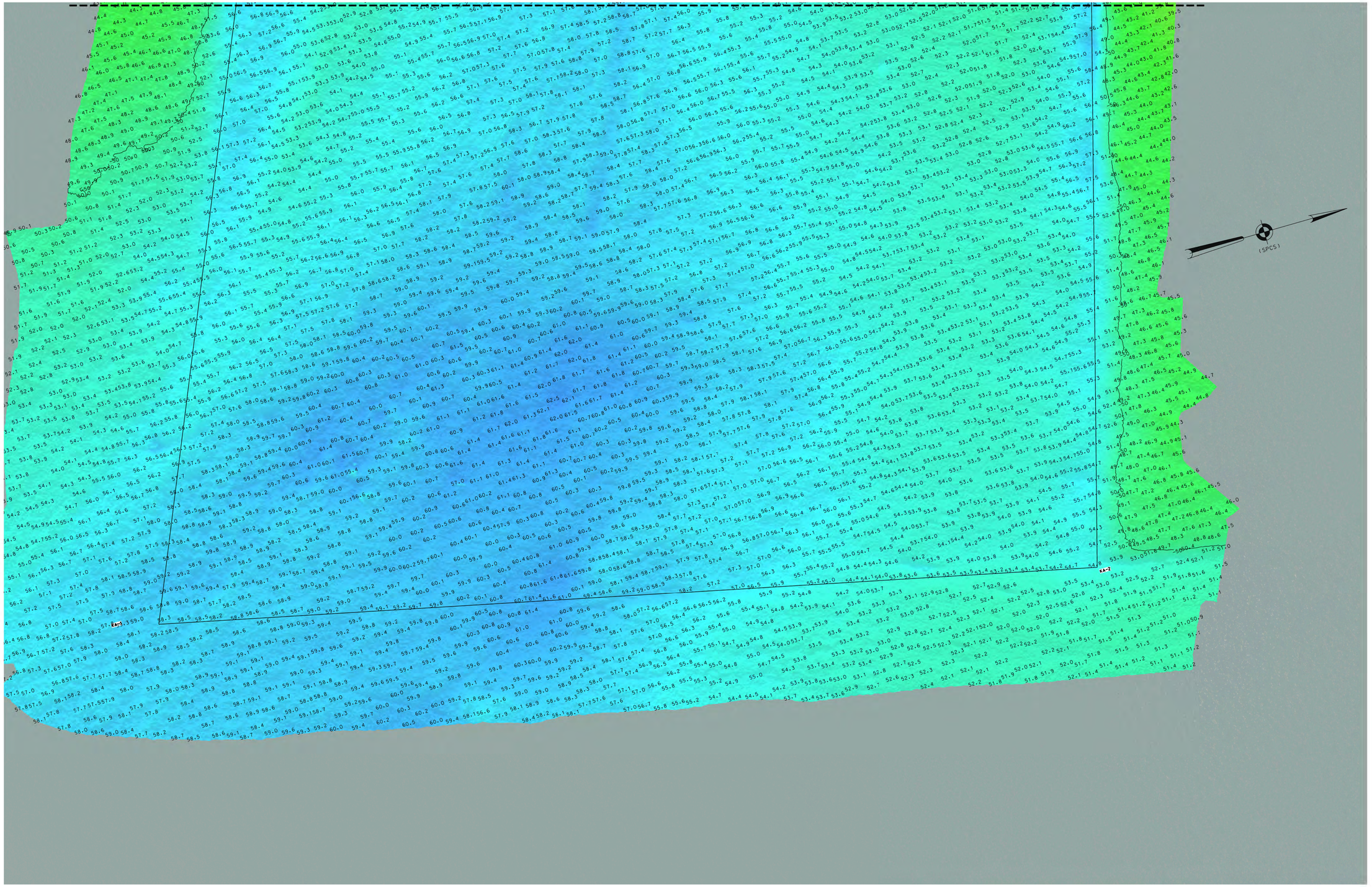
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-112

12 OF 13

MATCH TO SHEET 12



0 100' 200'

REFER TO SHEET 1 FOR PROJECT NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: TIDAL 6 STA 4 (KVO611)	BENCHMARK: AJD10029
ELEVATION: 7.65' (NAVD 1988)	ELEVATION: 8.32' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PRJ. MGR.	ESD/CIM CIM

DATES OF SURVEY:
06, 09, 12, 14 DECEMBER 2022
15, 19, 20 DECEMBER 2022

REG. NO./FILE NO.-15247/N1/N3

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
DNA 10

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: M. MIRAZ, SUPVRY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 22 DECEMBER 2022

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

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONDITION SURVEY

VH-113

13 OF 13