

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT



RED LIGHTED #6
EBB
7 JANUARY 2010

GREEN LIGHTED #5
EBB
7 JANUARY 2010

GREEN LIGHTED #7
EBB
16 FEBRUARY 2010

CONTROL DATA
BENCHMARK: TIDAL NO 6 STA 4 (KV0611)
ELEVATION: 7.65' NAVD 1988

NOTE:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM NAD 1983. SOUNDINGS REFER TO THE PLANE OF C.O.E. MEAN LOW WATER.
THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988.
THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-2-1003.
THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.
THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.
THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS N 661,000 FROM STATION CAVEN POINT.

DATES OF SURVEY:
30 DEC. 2009 & 4. 12.15.10-19.20
6.26 JAN 2010
FILE NO.: 1323
PROJECT NO.: 146874

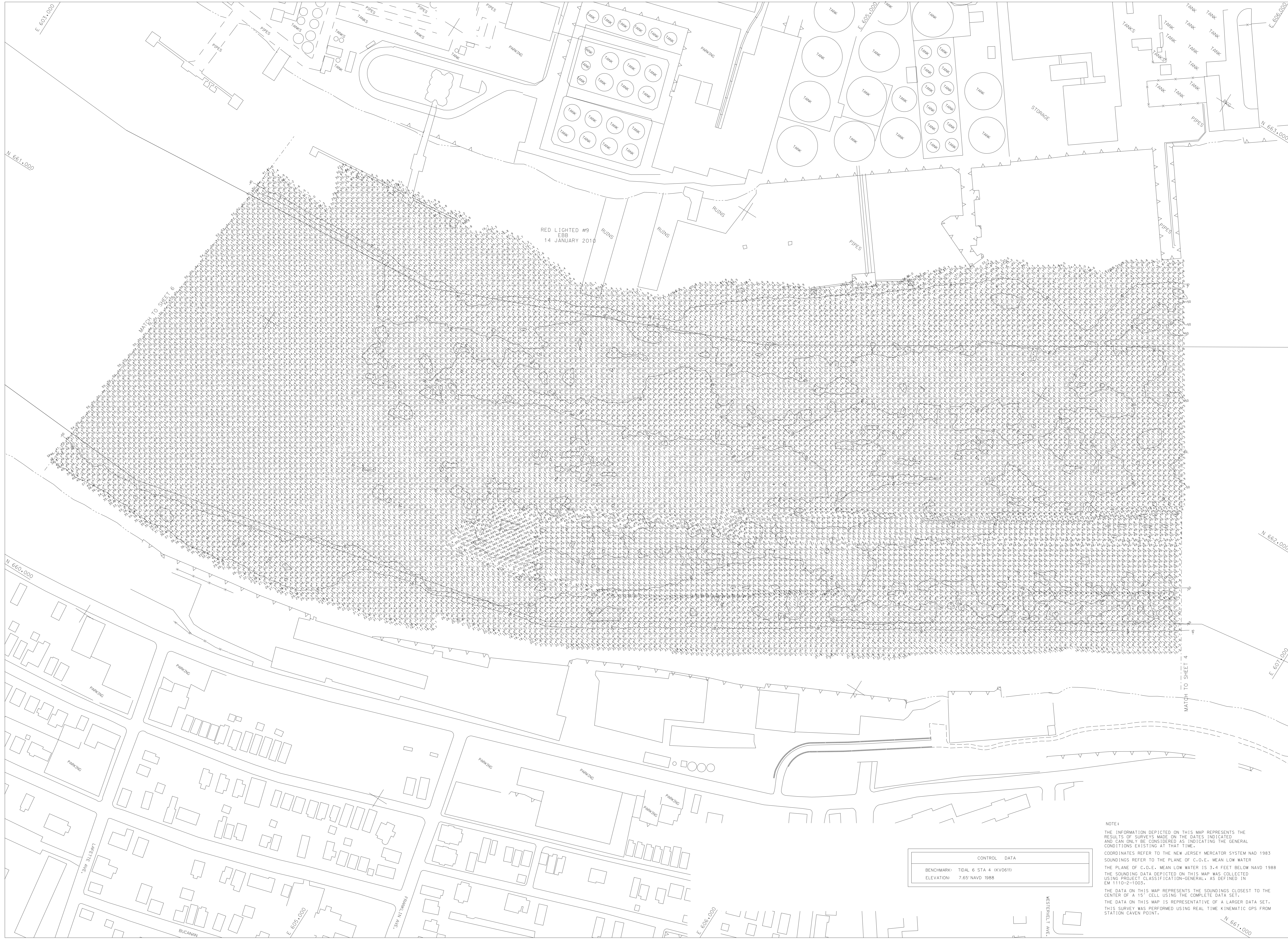
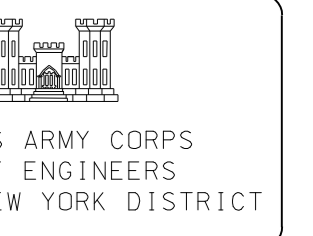
SCALE:
ONE INCH = 100 FEET
FIELD BOOKS:
14882 - 14887

APPROVED: S. RYSHKIEWICZ/SMITH
APPROVED: M. FORTE
APPROVED: J. MRAB
APPROVED: F. POSTIGLIONE
DATE: 18 FEBRUARY 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10276
OPERATIONS DIVISION
SURVEY SECTION
CEWAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
WILGINTON
CONSTABLE HOOK REACH
CONDITION SURVEY

VH-104
SHEET 4 OF 15



RED LIGHTED #9
EBB
14 JANUARY 2010

MATCH TO SHEET 6

MATCH TO SHEET 4

CONTROL DATA
BENCHMARK: TIDAL 6 STA 4 (KV061)
ELEVATION: 7.65' NAVD 1988

NOTE:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM NAD 1983
SOUNDINGS REFER TO THE PLANE OF C.O.E. MEAN LOW WATER
THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988
THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-2-1003.
THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.
THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.
THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION CAVEN POINT.

DATES OF SURVEY:
30 DEC 2009 & 1, 12-15, 19-21
& 26 JAN 2010
FILE NO.: 1325
PROJECT NO.: 146674

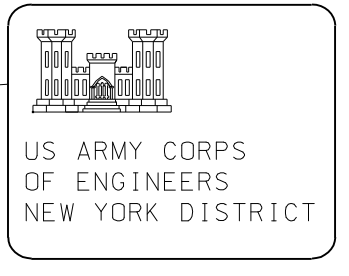
SCALE:
ONE INCH = 100 FEET
FIELD BOOKS:
14882, 14887

APPROVED: S. RYSHKIEWICZ/SMITH
APPROVED: M. FORTE
APPROVED: J. MBIZ
APPROVED: F. POSTOLIDON
DATE: 18 FEBRUARY 2010

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278
OPERATIONS DIVISION
SURVEY SECTION
CEVAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
VICINITY OF
CONSTABLE HOOK REACH
CONDITION SURVEY

VH-105
SHEET 5 OF 15



N 662,000

N 661,000

N 660,000

E 602,000

E 603,000

N 662,000

N 661,000

N 660,000

GREEN LIGHTED #9
SLACK
14 JANUARY 2010

CONTROL DATA

BENCHMARK: TIDAL 6 STA 4 (KV0611)

ELEVATION: 7.65 NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM NAD 1983 SOUNDINGS REFER TO THE PLANE OF C.D.E. MEAN LOW WATER THE PLANE OF C.D.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.

THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET. THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION CAVER POINT.

DATES OF SURVEY:
30 DEC 2009, 4, 4, 12-15, 19-21
& 26 JAN 2010

FILE NO.: 157
PROJECT NO.: 142270

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14265, 14257

APPROVED: S. BYSHENKIN, CIVIL ENGINEER
APPROVED: M. FORTE, CIVIL ENGINEER

APPROVED: J. MRZ, CIVIL ENGINEER
APPROVED: F. POSTOLINO, CIVIL ENGINEER

DATE: 18 FEBRUARY 2010

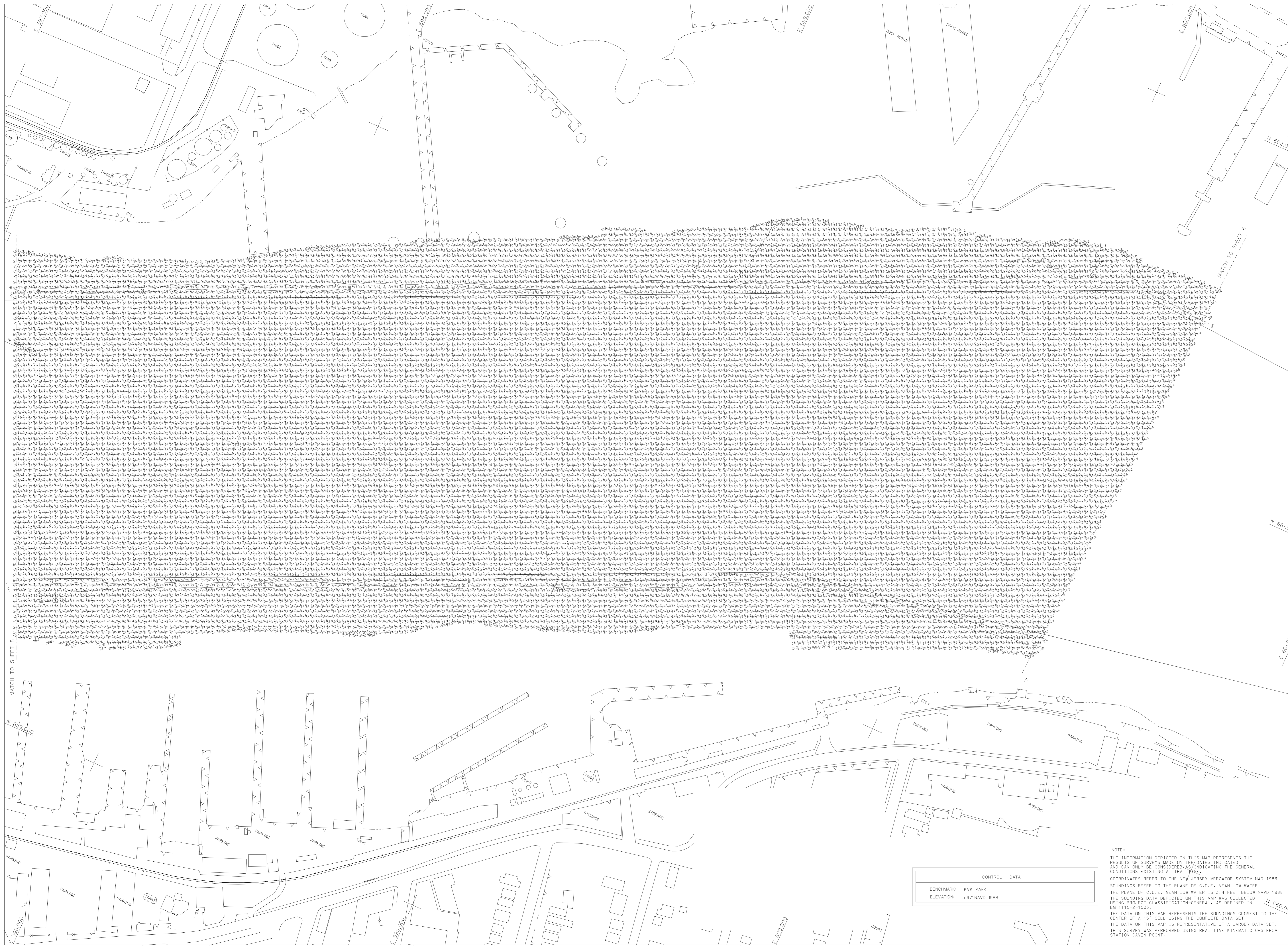
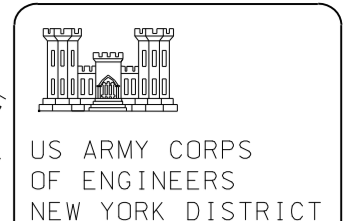
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CEMVA-OP-5

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
VICINITY OF
CONSTABLE HOOK REACH
CONDITION SURVEY

VH-106

SHEET 6 OF 15



US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY: 30 DEC 2009 & 12-15-19-21
6-26 JAN 2010

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 15826, 14262

FILE NO.: 1327
REQUEST NO.: 24620

APPROVED: S. RISHKHEIT (SMITH)
CHIEF ENGINEER

APPROVED: M. FORTI
CHIEF ENGINEER

APPROVED: J. MRZ
CHIEF ENGINEER

DATE: 18 FEBRUARY 2010

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

OPERATIONS DIVISION
SURVEY SECTION
CEMVA-OPS

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
BERGEN POINT
EAST REACH
HOOK REACH

CONDITION SURVEY

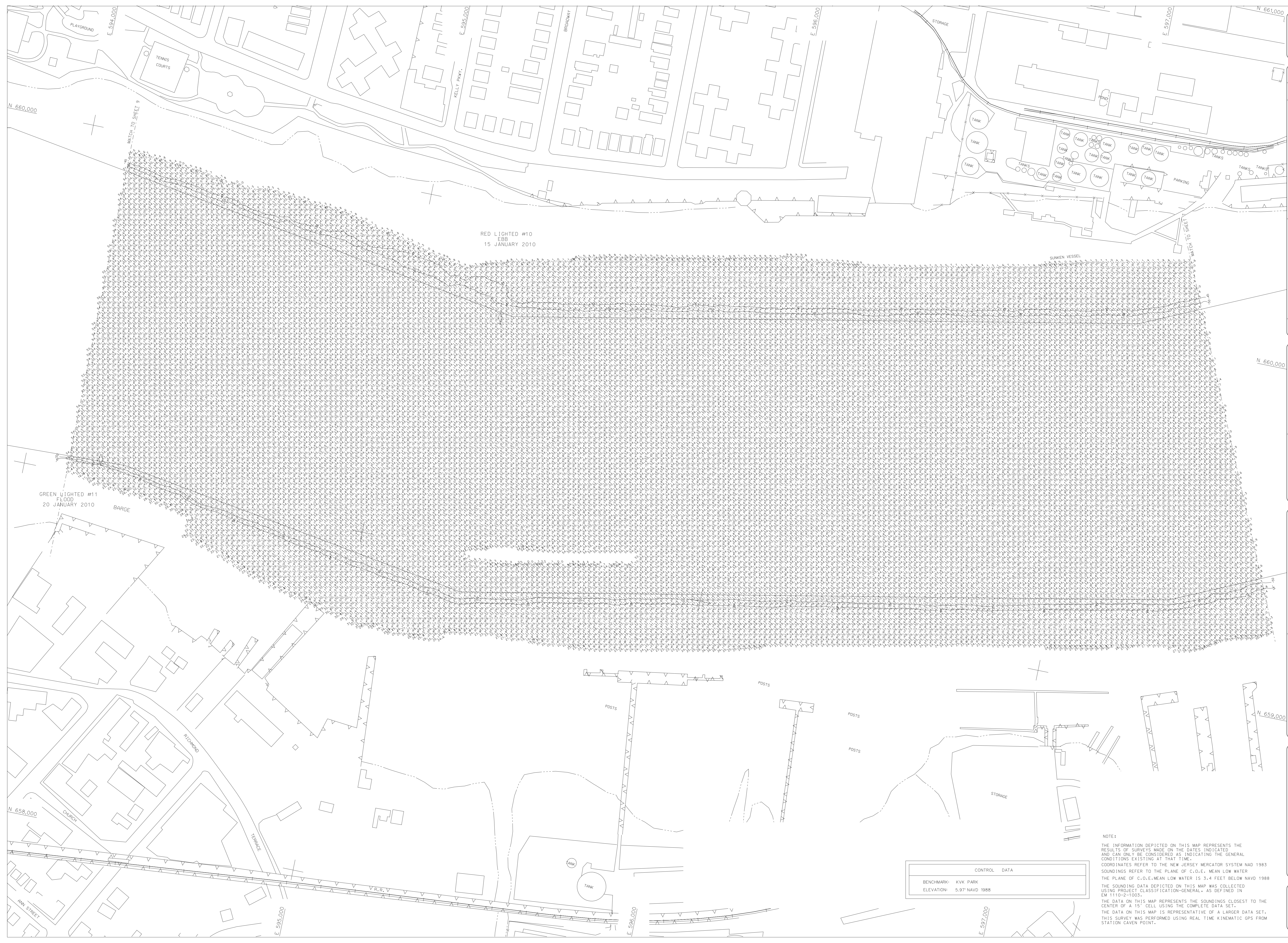
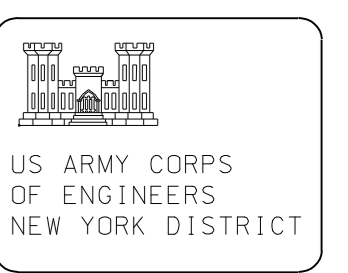
VH-107

SHEET 7 OF 15

CONTROL DATA

BENCHMARK: KVK PARK
ELEVATION: 5.97 NAVD 1988

NOTE:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE. THE DATA IS REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM NAD 1983
SOUNDINGS REFER TO THE PLANE OF C.O.G.E. MEAN LOW WATER
THE PLANE OF C.O.G.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988
THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EST 1110-2-10.002
THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.
THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET. THE SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION CAVEN POINT.



RED LIGHTED #10
EBB
15 JANUARY 2010

GREEN LIGHTED #11
FLOOD
20 JANUARY 2010

CONTROL DATA
BENCHMARK: KVK PARK
ELEVATION: 5.97' NAVD 1988

NOTE:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM NAD 1983 SOUNDINGS REFER TO THE PLANE OF C.O.E. MEAN LOW WATER THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988
THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-2-1003.
THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.
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Table with multiple empty rows and columns, likely a metadata or revision table.

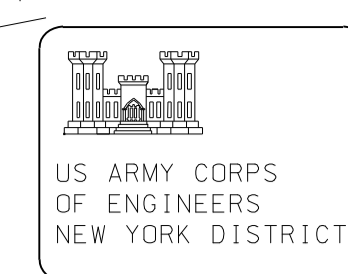
DATES OF SURVEY:
10 DEC 2009 & 4, 12-15, 19-21
& 26 JAN 2010
SCALE:
ONE INCH = 100 FEET
FIELD BOOKS:
12852, 14551
FILE NO.: 1323
REQUEST NO.: 8462/0

APPROVED: S. RYSHKIEWICZ/D. SMITH
FIELD SUPERVISOR
APPROVED: M. FORTE
FIELD SUPERVISOR
APPROVED: J. BRAZ
FIELD SUPERVISOR
DATE: 18 FEBRUARY 2010
CHIEF OF SURVEY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278
OPERATIONS DIVISION
STATION CAVEN POINT
NEW YORK & NEW JERSEY CHANNELS
KILL VAN KILL
VICINITY OF
BERGEN POINT EAST REACH
CONDITION SURVEY

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KILL
VICINITY OF
BERGEN POINT EAST REACH
CONDITION SURVEY

VH-108
SHEET 8 OF 15



US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT



RED LIGHT #2
EBB
14 JANUARY 2010

GREEN & RED JCT E
16 FEBRUARY 2010

GREEN LIGHTED #17
EBB
14 JANUARY 2010

SUNKEN VESSELS
&
PILINGS

CONTROL DATA
BENCHMARK: KVK PARK
ELEVATION: 5.97' NAVD 1988

NOTE:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM NAD 1983 SOUNDINGS REFER TO THE PLANE OF C.D.E. MEAN LOW WATER THE PLANE OF C.D.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988 THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-1-1003
THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.
THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET. THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION CAVEN POINT.

DATES OF SURVEY:
1. DEC. 2009
2. JAN. 12-15, 10-11
3. JAN. 2010

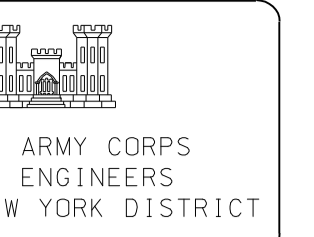
SCALE:
ONE INCH = 100 FEET

APPROVED: S. RYSKIEWICZ/DL SMITH
TECHNICAL SUPERVISOR
APPROVED: M. ERBE
FOR THE ENGINEERING DIVISION
APPROVED: J. MRZ
JOB COMMANDER
APPROVED: F. POSTIGLIONE
FOR THE DISTRICT
DATE: 18 FEBRUARY 2010

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
NEW YORK DISTRICT
OPERATIONS DIVISION
SURVEY SECTION
CAVEN-05

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
VICINITY OF
BERGEN POINT WEST REACH
CONDITION SURVEY

VH-110
SHEET 10 OF 15



US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT



CONTROL DATA	
BENCHMARK:	10026
ELEVATION:	7.26' NAVD 1988

NOTE:
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 COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM NAD 1983 SOUNDINGS REFER TO THE PLANE OF C.O.E. MEAN LOW WATER THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988 THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-2-1003.
 THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.
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DATES OF SURVEY:
 30 DEC 2009 & 4, 12-15, 19-21
 4 JAN 2010

SCALE:
 ONE INCH = 100 FEET

FIELD BOOKS:
 14262-14237

FILE NO.: 1323
 REVISION NO.: 0602/P

APPROVED BY: [Signature]
 APPROVED BY: [Signature]
 APPROVED BY: [Signature]
 DATE: 18 FEBRUARY 2010

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

OPERATIONS DIVISION
 SURVEY SECTION
 CEMAN-OPS

NEW YORK & NEW JERSEY CHANNELS
 KILL VAN KULL
 VICINITY NORTH OF
 SHOOTERS AND REACH &
 ELIZABETH FORT REACH
 CONDITION SURVEY

VH-113
 SHEET 13 OF 15



US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

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

OPERATIONS DIVISION
SURVEY SECTION
CEMANT-01-S

NEW YORK & NEW JERSEY CHANNELS
ARTHUR KILL
VICINITY OF
ELIZABETH PORT REACH
CONDITION SURVEY

VH-114
SHEET 14 OF 15

DATE: 18 FEBRUARY 2010

APPROVED: S. BYSHEWITZ, CIVIL ENGINEER
APPROVED: M. FORTE, CIVIL ENGINEER
APPROVED: J. MREZ, CIVIL ENGINEER
APPROVED: F. POSTOLUNG, CIVIL ENGINEER

FIELD BOOKS:
14685, 14687

SCALE:
ONE INCH = 100 FEET

DATES OF SURVEY:
30 DEC 2009 & 3, 12-15, 19-21
& 28 JUN 2010

FILE NO: 1 103
PROJECT NO: 1 106270

NOTE:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.
COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM NAD 1983
SOUNDINGS REFER TO THE PLANE OF C.O.E. MEAN LOW WATER
THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988
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THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION CAVEN POINT.

CONTROL DATA
BENCHMARK: 10026
ELEVATION: 7.26' NAVD 1988

