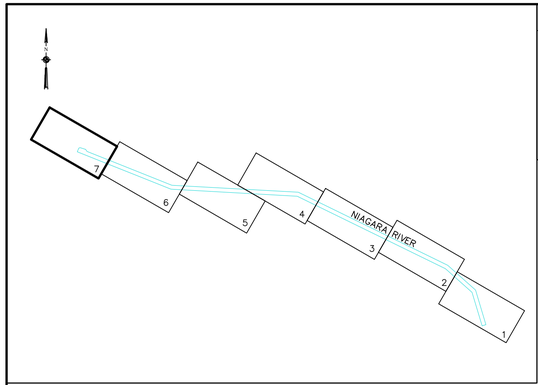



**SHEET INDEX**
"NOT TO SCALE"

## SOUNDING COLOR LEGEND

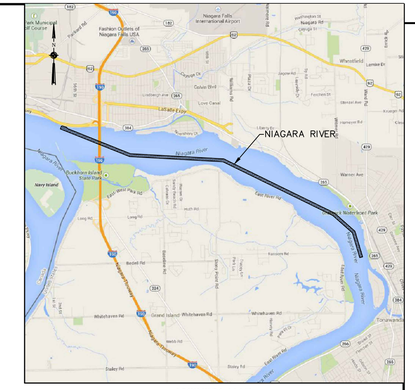
| | |
|---|---|
| | DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH |
| | DEPTHS AT OR BELOW PROJECT DEPTH |
| 18.0 | PROJECT DEPTH |

## LEGEND OF SYMBOLS

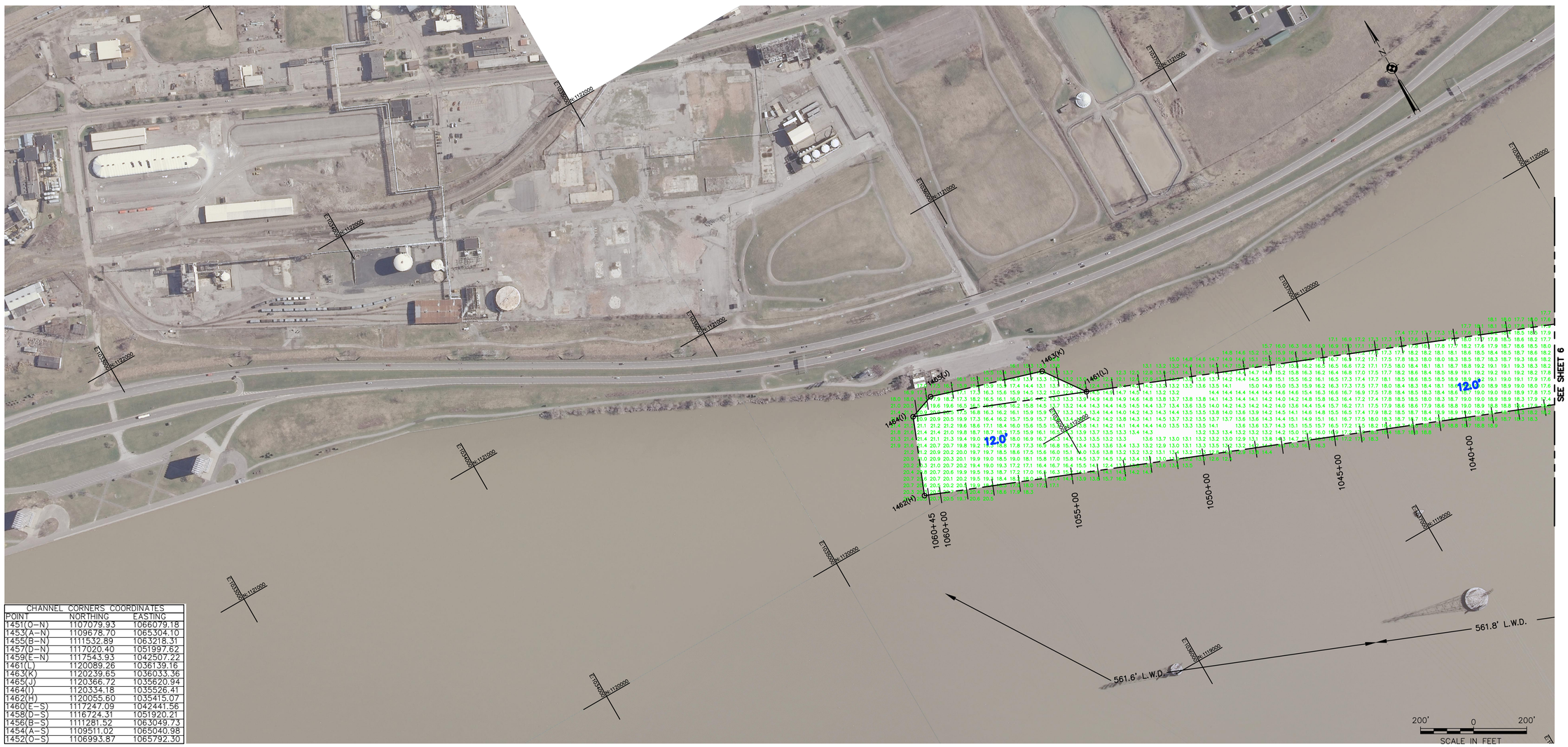
| | |
|---|---|
| 17+00 | CHANNEL STATIONING |
| 417 | CHANNEL CORNER |
| H.L.F. | HARBOR LINE CORNER |
| | FEDERAL CHANNEL |
| | HARBOR LINE |
| | SUBMARINE CABLE |
| C | CAN BUOY |
| N | NUN BUOY |
| | LIGHTED BUOY |
| | FIXED LIGHT |
| | LIGHT HOUSE |
| W | LIGHT COLOR WHITE |
| R | LIGHT COLOR RED |
| G | LIGHT COLOR GREEN |
| FL | FLASHING LIGHT |
| F | FIXED LIGHT |
| Oc | OCCULTING LIGHT |
| Iso | EQUAL INTERVAL |
| AL | ALTERNATING |
| Q | QUICK (FLASHING) |
| S | LIGHT CYCLE SECONDS |

SITE SPECIFIC NOTES:

1. PROJECT DEPTHS AND SOUNDINGS ARE REFERRED TO IGLD85 LOW WATER DATUM STEP AS SHOWN.
2. HORIZONTAL CONTROL IS REFERRED TO NORTH AMERICAN DATUM 1983 NEW YORK STATE PLANE COORDINATE SYSTEM–WEST ZONE.
3. PROJECT DEPTH IS AS NOTED BELOW LOW WATER DATUM.
4. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. DELL AND PARTY ON AUGUST 8, 2014 USING:
   GPS POSITIONING, POS–MV VER. 5 AND REAL TIME KINEMATIC TIDES
   SONAR HEAD: 240 KHZ, SEABAT 7101 MULTIBEAM
   1.5 DEGREE BEAMS 210 DEGREE ARC
   HEAVE PITCH AND ROLL; APPLANIX POS–MV VER. 5
   VELOCITY PROFILER; SONTEK CASTAWAY
   HYPACK SURVEY SOFTWARE
   SURVEY LAUNCH "WITMER"
5. THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.
6. THE BACKGROUND IMAGERY SHOWN WAS OBTAINED FROM THE NEW YORK STATE GIS CLEARINGHOUSE..
7. THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110–2–1003.




**VICINITY MAP**
"NOT TO SCALE"




| CHANNEL CORNERS COORDINATES | | |
|---|---|---|
| POINT | NORTHING | EASTING |
| 1451(O–N) | 1107079.93 | 1066079.18 |
| 1453(A–N) | 1109678.70 | 1065304.10 |
| 1455(B–N) | 1111532.89 | 1063218.31 |
| 1457(D–N) | 1117020.40 | 1051997.62 |
| 1459(E–N) | 1117543.93 | 1042507.22 |
| 1461(L) | 1120089.26 | 1038139.16 |
| 1463(K) | 1120239.65 | 1036033.36 |
| 1465(J) | 1120366.72 | 1035620.94 |
| 1464(I) | 1120334.18 | 1035526.41 |
| 1462(H) | 1120055.60 | 1035415.07 |
| 1460(E–S) | 1117247.09 | 1042441.56 |
| 1458(D–S) | 1116724.31 | 1051920.21 |
| 1456(B–S) | 1111281.52 | 1063049.73 |
| 1454(A–S) | 1109511.02 | 1065040.98 |
| 1452(O–S) | 1106993.87 | 1065792.30 |

US Army Corps of Engineers
Buffalo District

Original sheet size = ANSI D

** COPY OF SIGNED ORIGINAL **

Drawn by: KPL
Checked by: ACK
Reviewed by: Roman H. Figler III PLS
Chief, Survey Section
Approved by: Edward F. Gawarecki
Date: August 12, 2014
Chief, NY/PA Navigation and Maintenance Section

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207–3199

NIAGARA RIVER, NY

**PROJECT CONDITIONS SOUNDINGS 2014**

SCALE: 1"=200'

Sheet reference number
**VH–107**
Sheet 7 of 7

To download an electronic version of this map, point a web browser to http://www.lrb.usace.army.mil/Library/NaviganceCharts.aspx

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