ILLINOIS

WEST POINT LANDING

MAPLE ISLAND

PARKING AREA

DOGTOWN LANDING

241

240

LOCK & DAM 25

2 SUBMARINE CABLES (AT&T)

MISSOURI

N 1154000

N 1152000

N 1150000

N 1148000

N 1146000

N 1146000

E 454000

E 452000

E 446000

E 444000

OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

Channel Survey sounded by
Hanson Professional Services Inc.
October 5, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | DIXON LANDING | L & D 25 (LOWER) | L & D 25 (UPPER) |
|---|---|---|---|---|
| ZERO N.G.V.D | | 410.6 | 407.0 | 407.0 |
| MILE | | 228.3 | 241.2 | 241.5 |
| MIN. POOL | | 418.1 | 418.5 | 429.7 |
| | 05 OCT 2012 | 419.5 (08:00) | 419.9 (08:00) | X |
| | | 419.5 (14:00) | 419.9 (14:00) | |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL 154,000 C.F.S.!

Surveyed by: HANSON
Drawn by: RCA
Ckd by:
Reviewed by:
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
APPROVED:
Chief, Geospatial Branch.
Survey Date: October 5, 2012
File name: 241_20120502.dgn
Plot date: October 8, 2012
Plot scale: 1"=400'

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

240 METERS 800 FEET
120 0 120 400 0 400

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESOURCES AS SURVEYED ON THE DATE INDICATED AND MAY NOT BE AS REPRESENTED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER

ILLINOIS

MISSOURI

BEACH LANDING

HASTINGS LANDING

SUBMARINE COMMUNICABLES (AT&T)

CREEK

DIKE 238.2(R)

DIKE 237.8(R)

DIKE 237.6(R)

238

237

N 1144000

N 1142000

N 1140000

N 1138000

N 1136000

N 1134000

E 446000

E 448000

E 450000

E 454000

OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

Channel Survey sounded by
Hanson Professional Services Inc.
October 5, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | DIXON LANDING | L & D 25 (LOWER) | ST. LOUIS |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 410.6 | 407.0 | 379.94 |
| MILE | | 228.3 | 241.2 | 179.6 |
| MIN. POOL | | 418.1 | 418.5 | 376.4 |
| | 05 OCT 2012 | 419.5 (08:00) | 419.9 (08:00) | |
| | | 419.5 (14:00) | 419.9 (14:00) | |

ELEVATIONS ARE REFERED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (14,000 C.F.S.)

Surveyed by: HANSON
Drawn by: RCA
Ckd by: RCA
Reviewed by:
APPROVED: Chief, Geospatial Branch
Survey Date: October 5, 2012
SUBMITTED: Chief, Engr. Data Mngt. Sect.
File name: 241_20120502.dgn
Plot date: October 8, 2012
Plot scale: 1"=400'

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

240 METERS
800 FEET
120 0 120 400 0 400

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE BOUNDARIES AS SURVEYED. THE BOUNDARIES MAY CHANGE AS NATURAL FORCES ACT UPON THE LAND AND AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 241.2 - 201.1

PLATE NUMBER

OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

DIKE 237.3(L)
DIKE 236.9(L)
DIKE 236.6(L)
DIKE 236.3(L)
DIKE 235.8(L)
DIKE 235.4(L)
DIKE 237.4(R)
BRUSSELS LANDING
SUNSET LANDING
ILLINOIS
MISSOURI
237
236
E 458000
E 456000
E 454000
E 452000
N 1134000
N 1132000
N 1130000
N 1128000
N 1126000
N 1124000

Channel Survey sounded by
Hanson Professional Services Inc.
October 5, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | DIXON LANDING | L & D 25 (LOWER) | ST. LOUIS |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 410.6 | 407.0 | 379.94 |
| MILE | | 228.3 | 241.2 | 179.6 |
| MIN. POOL | | 418.1 | 418.5 | 376.4 |
| | 05 OCT 2012 | 419.5 (08:00)<br>419.5 (14:00) | 419.9 (08:00)<br>419.9 (14:00) | |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

Surveyed by: HANSON
Drawn by: RCA
Checked by: RCA
Reviewed by:
APPROVED: Chief, Geospatial Branch

Survey Date: October 5, 2012
SUBMITTED: Chief, Engr. Data Mngt. Sect.
File name: 241_20120502.dgn
Plot date: October 8, 2012
Plot scale: 1"=400'

240 METERS
800 FEET
0 120 400
0 120 400

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS PERFORMED BY THE ST. LOUIS DISTRICT AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER

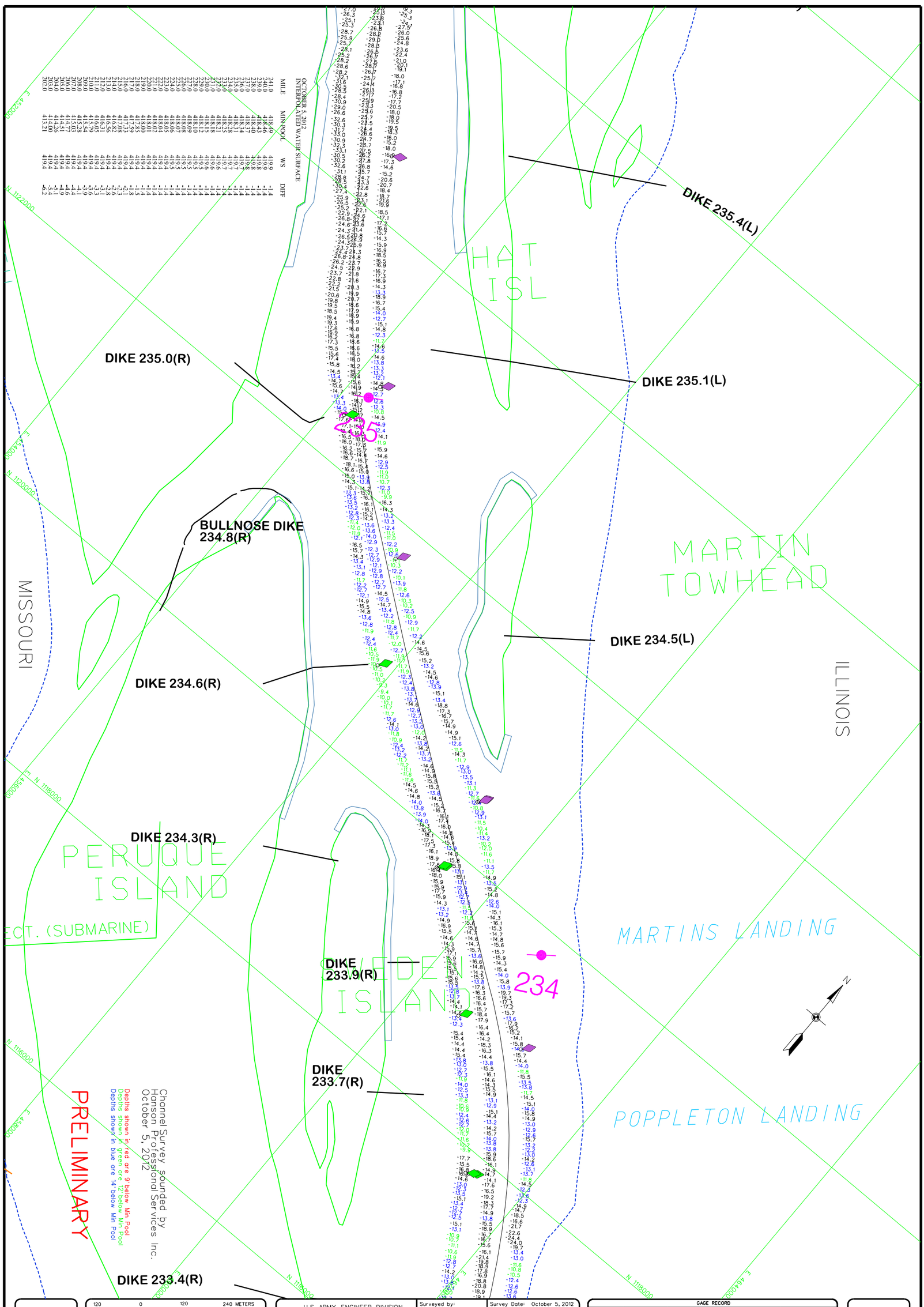



PLATE NUMBER

120 0 120 240 METERS
400 0 400 800 FEET

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

CHANNEL SURVEY
MILE: 241.2-201.1

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

| | | |
|---|---|---|
| Surveyed by: HANSON | | Survey Date: October 5, 2012 |
| Drawn by: RCA | Ckd by: RCA | SUBMITTED: |
| Reviewed by: | | Chief, Engr. Data Mngt. Sect. |
| APPROVED: | | File name: 241_201J0512.dgn |
| Chief, Geospatial Branch | | Plot date: October 8, 2012<br>Plot scale: 1"=400' |

GAGE RECORD

| | WATER SURFACE | DIXON LANDING | L & D 25 (LOWER) | ST. LOUIS |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 410.6 | 407.0 | 379.94 |
| MILE | | 228.3 | 241.2 | 179.6 |
| MIN POOL | | 418.1 | 418.5 | 376.4 |
| | | | | |
| | 05 OCT 2012 | 419.5 (08:00) | 419.9 (08:00) | |
| | | 419.5 (14:00) | 419.9 (14:00) | |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL 154,000 C.F.S.)

US Army Corps of Engineers
St. Louis District

OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| WATER SURFACE | DIXON LANDING | L & D 25 (LOWER) | ST. LOUIS |
|---|---|---|---|
| ZERO N.G.V.D. | 410.6 | 407.0 | 379.94 |
| MILE | 228.3 | 241.2 | 179.6 |
| MIN POOL | 418.1 | 418.5 | 376.4 |
| 05 OCT 2012 | 419.5 (08:00)<br>419.5 (14:00) | 419.9 (08:00)<br>419.9 (14:00) | |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

Survey Date: October 5, 2012

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name: 241_201J0512.dgn
Plot date: October 8, 2012
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: RCA
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

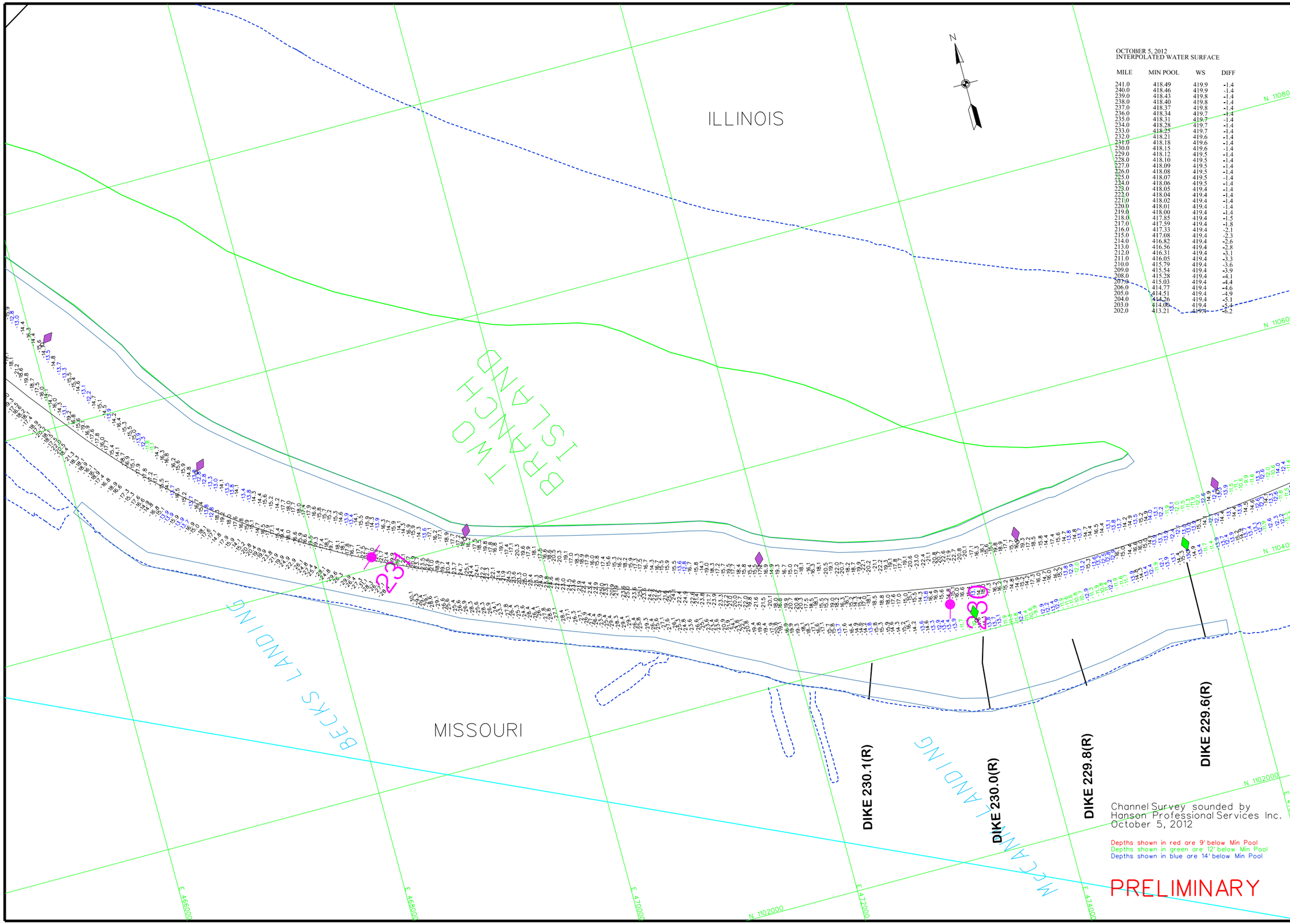
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS 120 0 120
800 FEET 400 0 400

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

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER




OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

Channel Survey sounded by
Hanson Professional Services Inc.
October 5, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | DIXON LANDING | L & D 25 (LOWER) | ST. LOUIS |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 410.6 | 407.0 | 379.94 |
| MILE | | 228.3 | 241.2 | 179.6 |
| MIN POOL | | 418.1 | 418.5 | 376.4 |
| | 05 OCT 2012 | 419.5 (08:00) | 419.9 (08:00) | |
| | | 419.5 (14:00) | 419.9 (14:00) | |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

Survey Date: October 5, 2012
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 241_20\J0512.dgn
Plot date: October 8, 2012
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: RCA
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

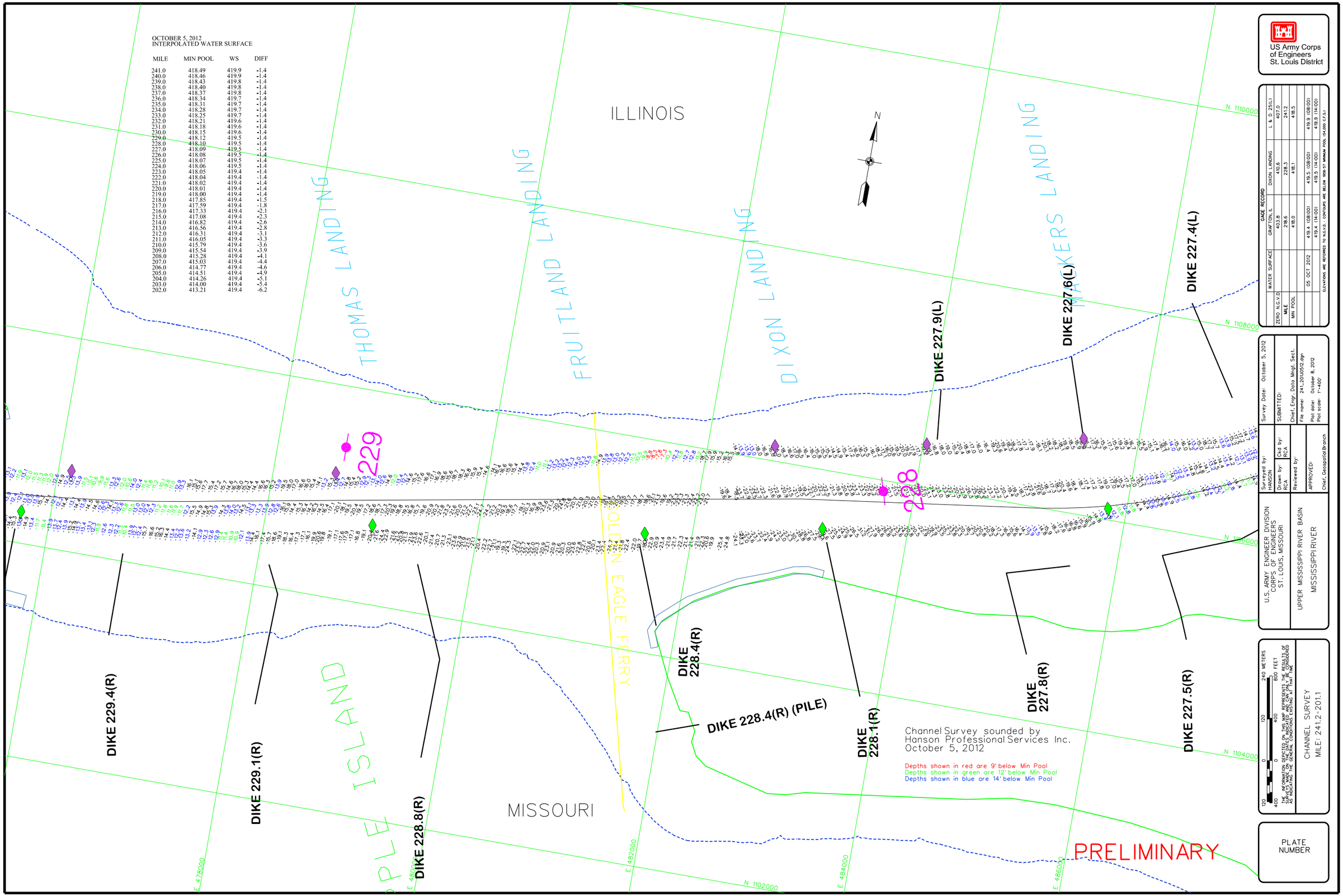
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER

OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |




US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | GRAFTON, IL | DIXON LANDING | L & D 25(L) |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 403.8 | 410.6 | 407.0 |
| MILE | | 218.6 | 228.3 | 241.2 |
| MIN POOL | | 418.0 | 418.1 | 418.5 |
| | 05 OCT 2012 | 419.4 (08:00) | 419.5 (08:00) | 419.9 (08:00) |
| | | 419.4 (14:00) | 419.5 (14:00) | 419.9 (14:00) |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

Survey Date: October 5, 2012

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 241_20120512.dgn

Plot date: October 8, 2012
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: RCA
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

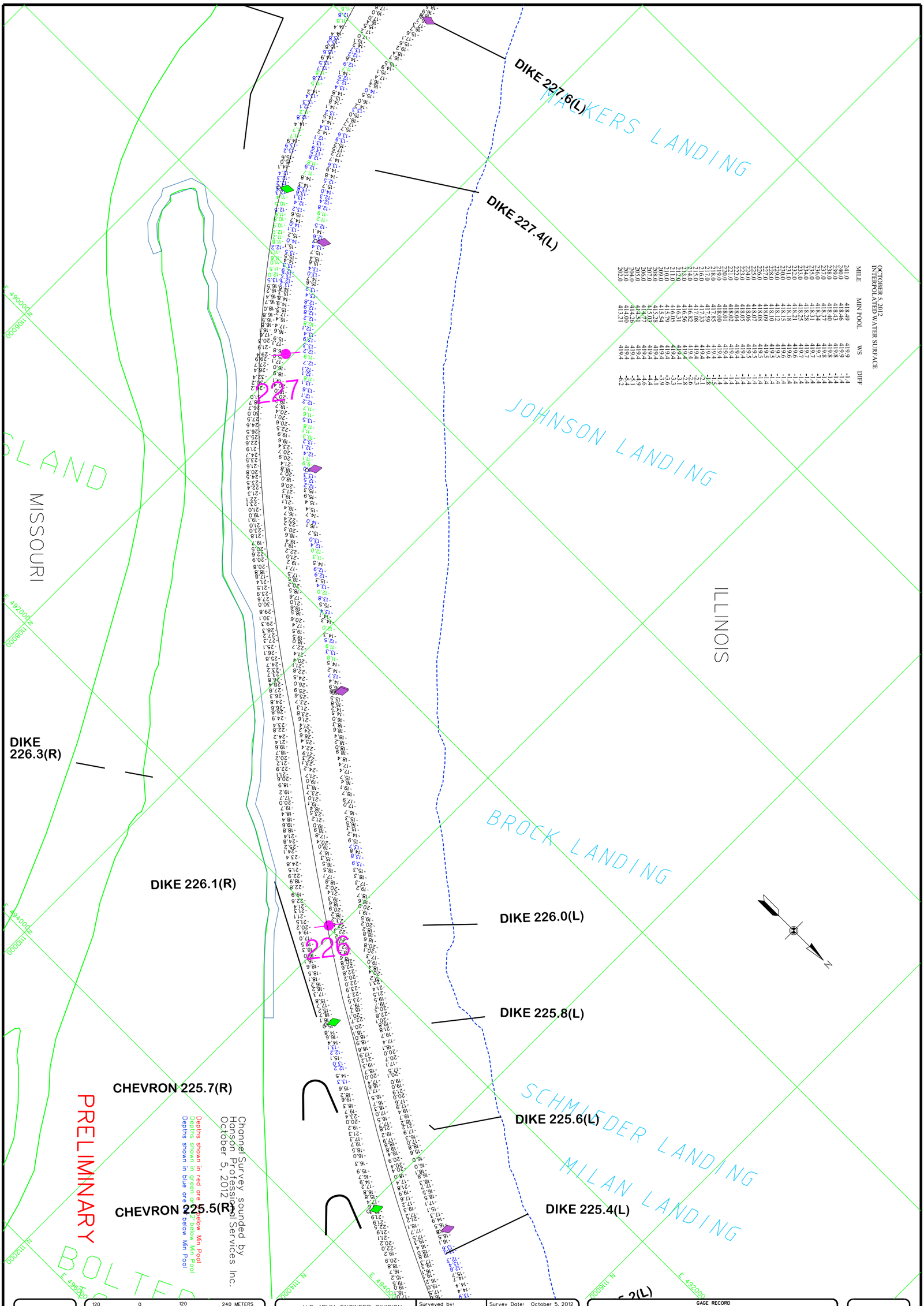
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

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

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER




OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.7 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.09 | 419.5 | -1.4 |
| 227.0 | 418.08 | 419.5 | -1.4 |
| 226.0 | 418.07 | 419.5 | -1.4 |
| 225.0 | 418.06 | 419.5 | -1.4 |
| 224.0 | 418.05 | 419.4 | -1.4 |
| 223.0 | 418.04 | 419.4 | -1.4 |
| 222.0 | 418.02 | 419.4 | -1.4 |
| 221.0 | 418.01 | 419.4 | -1.4 |
| 220.0 | 418.00 | 419.4 | -1.4 |
| 219.0 | 417.85 | 419.4 | -1.5 |
| 218.0 | 417.59 | 419.4 | -1.8 |
| 217.0 | 417.38 | 419.4 | -2.3 |
| 216.0 | 417.08 | 419.4 | -2.3 |
| 215.0 | 416.85 | 419.4 | -2.6 |
| 214.0 | 416.56 | 419.4 | -2.8 |
| 213.0 | 416.31 | 419.4 | -3.3 |
| 212.0 | 416.05 | 419.4 | -3.3 |
| 211.0 | 415.79 | 419.4 | -3.6 |
| 210.0 | 415.54 | 419.4 | -3.9 |
| 209.0 | 415.28 | 419.4 | -4.1 |
| 208.0 | 415.03 | 419.4 | -4.4 |
| 207.0 | 414.77 | 419.4 | -4.6 |
| 206.0 | 414.51 | 419.4 | -4.9 |
| 205.0 | 414.26 | 419.4 | -5.1 |
| 204.0 | 414.00 | 419.4 | -5.4 |
| 203.0 | 413.21 | 419.4 | -6.2 |
| 202.0 | 413.21 | 419.4 | -6.2 |

PLATE NUMBER

120 0 120 240 METERS
400 0 400 800 FEET

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

CHANNEL SURVEY
MILE: 241.2-201.1

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

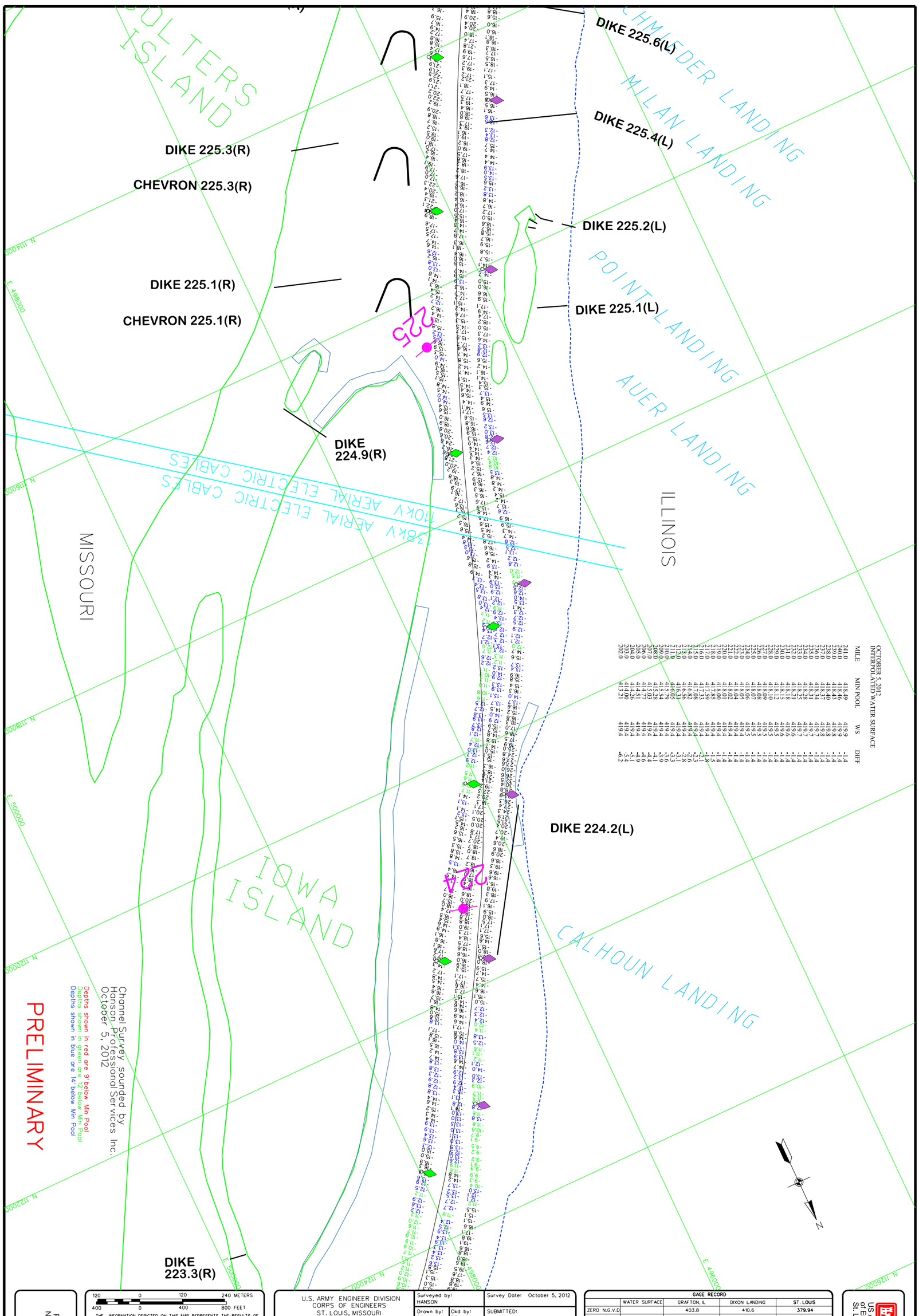
| | |
|---|---|
| Surveyed by: HANSON | Survey Date: October 5, 2012 |
| Drawn by: RCA / Ckd by: RCA | SUBMITTED: Chief, Engr. Data Mngt. Sect. |
| Reviewed by: | File name: 241_201J0512.dgn |
| APPROVED: Chief, Geospatial Branch | Plot date: October 8, 2012 Plot scale: 1"=400' |

GAGE RECORD

| | WATER SURFACE | GRAFTON, IL | DIXON LANDING | ST. LOUIS |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 403.8 | 410.6 | 379.94 |
| MILE | | 218.6 | 228.3 | 179.6 |
| MIN POOL | | 418.0 | 418.1 | 376.4 |
| | | | | |
| | 05 OCT 2012 | 419.4 (08:00) | 419.5 (08:00) | |
| | | 419.4 (14:00) | 419.5 (14:00) | |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

US Army Corps of Engineers
St. Louis District




OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.22 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.6 | -1.4 |
| 228.0 | 418.09 | 419.5 | -1.4 |
| 227.0 | 418.07 | 419.5 | -1.4 |
| 226.0 | 418.05 | 419.5 | -1.4 |
| 225.0 | 418.00 | 419.4 | -1.4 |
| 224.0 | 417.58 | 419.4 | -1.8 |
| 223.0 | 417.33 | 419.4 | -2.1 |
| 222.0 | 417.07 | 419.4 | -2.3 |
| 221.0 | 416.82 | 419.4 | -2.6 |
| 220.0 | 416.56 | 419.4 | -2.8 |
| 219.0 | 416.05 | 419.4 | -3.3 |
| 218.0 | 415.79 | 419.4 | -3.6 |
| 217.0 | 415.54 | 419.4 | -3.8 |
| 216.0 | 415.03 | 419.4 | -4.3 |
| 215.0 | 414.77 | 419.4 | -4.6 |
| 214.0 | 414.51 | 419.4 | -4.9 |
| 213.0 | 414.26 | 419.4 | -5.1 |
| 212.0 | 414.00 | 419.4 | -5.4 |
| 211.0 | 413.74 | 419.4 | -5.7 |
| 210.0 | 413.49 | 419.4 | -5.9 |
| 209.0 | 413.23 | 419.4 | -6.2 |
| 208.0 | 412.97 | 419.4 | -6.4 |
| 207.0 | 412.72 | 419.4 | -6.7 |
| 206.0 | 412.46 | 419.4 | -6.9 |
| 205.0 | 412.20 | 419.4 | -7.2 |
| 204.0 | 411.95 | 419.4 | -7.4 |
| 203.0 | 411.69 | 419.4 | -7.7 |
| 202.0 | 411.43 | 419.4 | -7.9 |

Channel Survey sounded by
Hanson Professional Services Inc.
October 3, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

PLATE NUMBER

120 0 120 240 METERS
400 0 400 800 FEET

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

CHANNEL SURVEY
MILE: 241.2-201.1

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

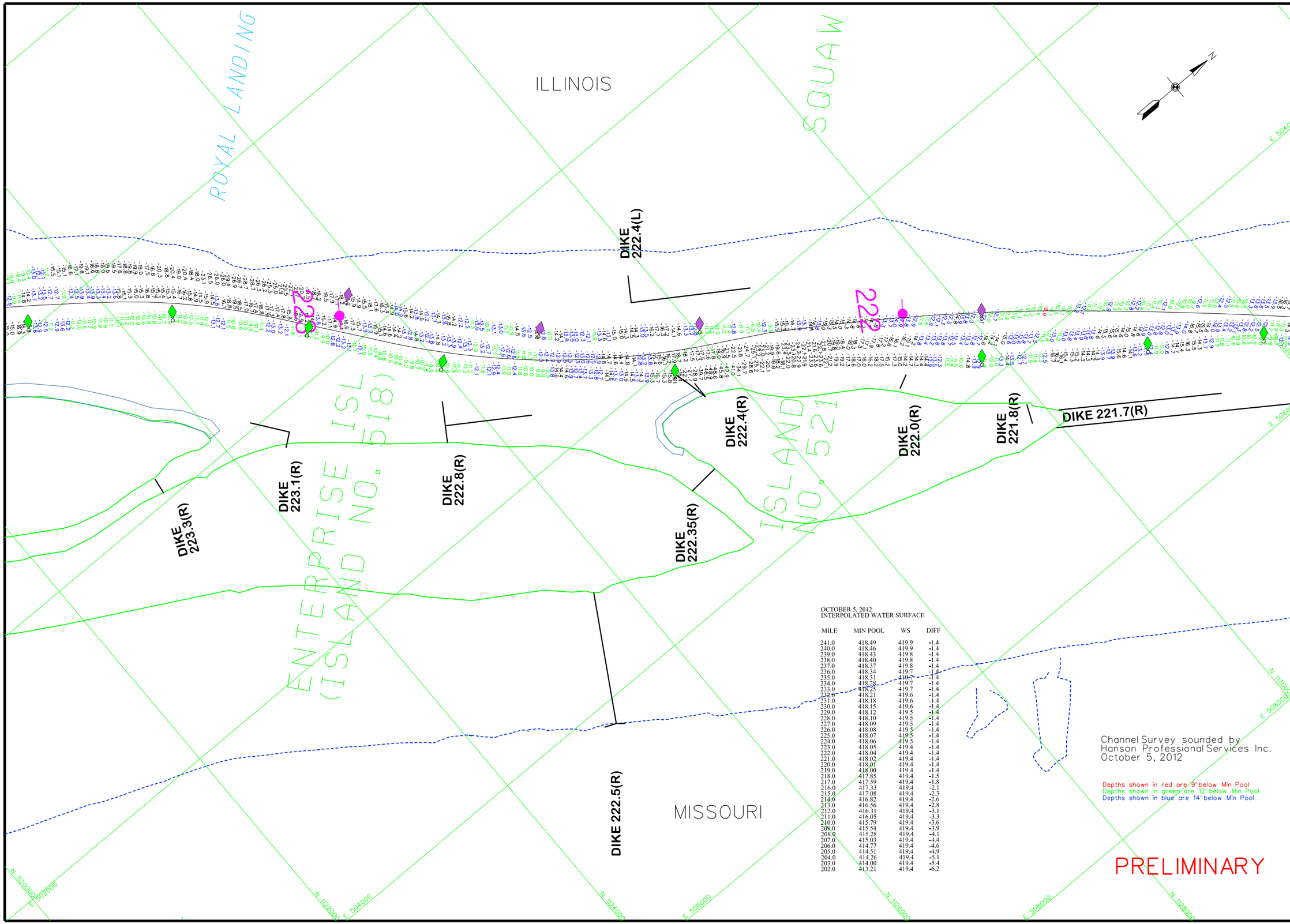
| | | |
|---|---|---|
| Surveyed by: HANSON | | Survey Date: October 5, 2012 |
| Drawn by: RCA | Ckd by: RCA | SUBMITTED: |
| Reviewed by: | | Chief, Engr. Data Mngt. Sect. |
| APPROVED: | | File name: 241_201J0512.dgn |
| Chief, Geospatial Branch | | Plot date: October 8, 2012<br>Plot scale: 1"=400' |

GAGE RECORD

| | WATER SURFACE | GRAFTON, IL | DIXON LANDING | ST. LOUIS |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 403.8 | 410.6 | 379.94 |
| MILE | | 218.6 | 228.3 | 179.6 |
| MIN POOL | | 418.0 | 418.1 | 376.4 |
| | | | | |
| | 05 OCT 2012 | 419.4 (08:00) | 419.5 (08:00) | |
| | | 419.4 (14:00) | 419.5 (14:00) | |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL 134,000 C.F.S.)

US Army Corps of Engineers
St. Louis District




OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

Channel Survey sounded by
Hanson Professional Services Inc.
October 5, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | GRAFTON, IL | DIXON LANDING | ST. LOUIS |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 403.8 | 410.6 | 379.94 |
| MILE | | 218.6 | 228.3 | 179.6 |
| MIN POOL | | 418.0 | 418.1 | 376.4 |
| | 05 OCT 2012 | 419.4 (08:00) | 419.5 (08:00) | |
| | | 419.4 (14:00) | 419.5 (14:00) | |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

Survey Date: October 5, 2012
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 241_20\J0512.dgn
Plot date: October 8, 2012
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: RCA
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

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.

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER

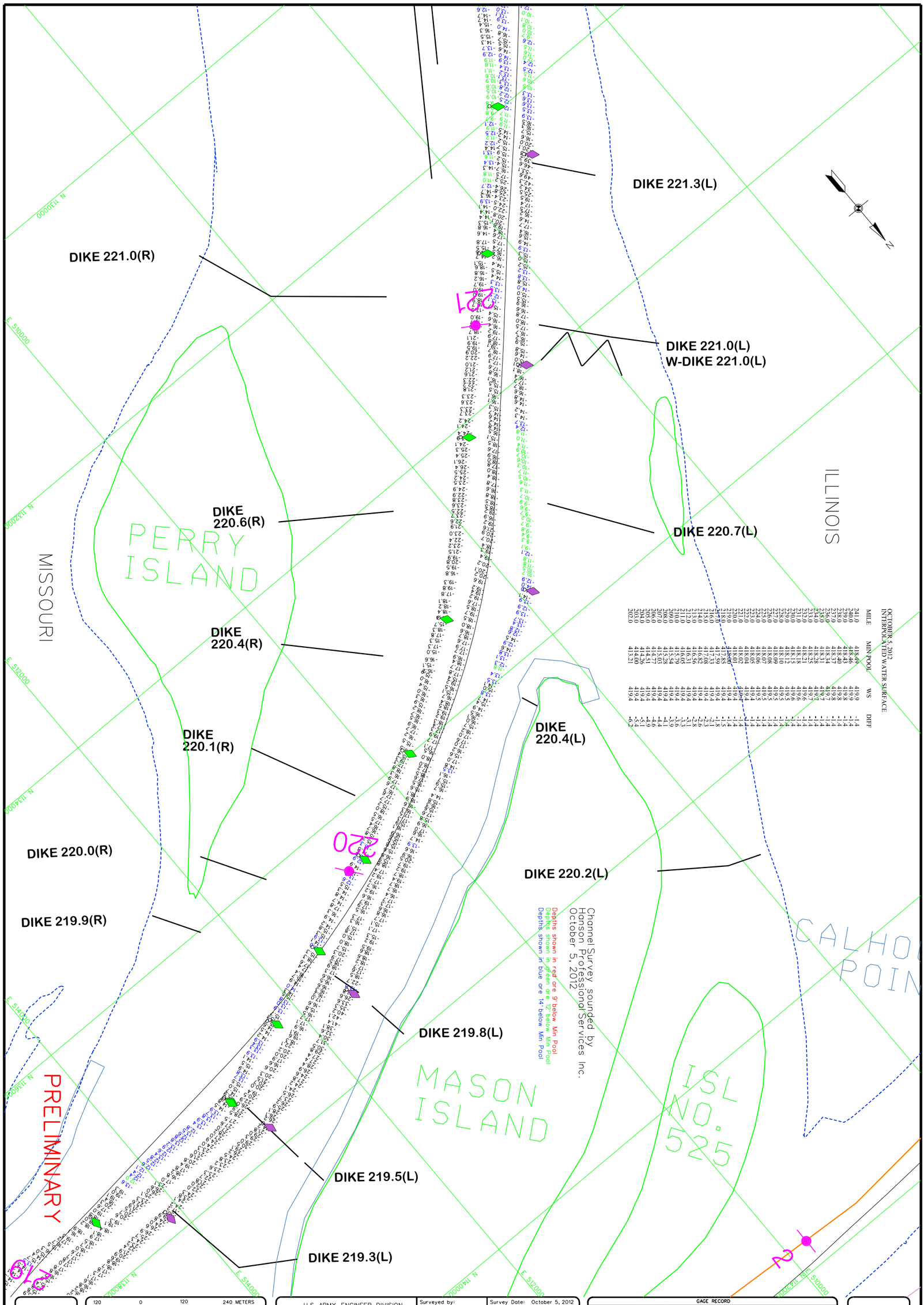



PLATE NUMBER

120 0 120 240 METERS
400 0 400 800 FEET

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

CHANNEL SURVEY
MILE: 241.2-201.1

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

| | |
|---|---|
| Surveyed by: HANSON | Survey Date: October 5, 2012 |
| Drawn by: RCA / Ckd by: RCA | SUBMITTED: Chief, Engr. Data Mngt. Sect. |
| Reviewed by: | File name: 241_201J0512.dgn |
| APPROVED: Chief, Geospatial Branch | Plot date: October 8, 2012 Plot scale: 1"=400' |

GAGE RECORD

| | WATER SURFACE | GRAFTON, IL | DIXON LANDING | ST. LOUIS |
|---|---|---|---|---|
| ZERO N.G.V.D | | 403.8 | 410.6 | 379.94 |
| MILE | | 218.6 | 228.3 | 179.6 |
| MIN POOL | | 418.0 | 418.1 | 376.4 |
| | | | | |
| | 05 OCT 2012 | 419.4 (08:00) | 419.5 (08:00) | |
| | | 419.4 (14:00) | 419.5 (14:00) | |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

US Army Corps of Engineers
St. Louis District

ILLINOIS

MISSOURI

CITY OF GRAFTON 1-8"

DIKE 219.2(L)

DIKE 219.3(L)

DIKE 219.0(L)

DIKE 218.8(L)

DIKE 218.4(L)

DIKE 218.2(L)

DIKE 218.1(R)

DIKE 217.7(R)

DIKE 217.4(R)

DIKE 217.0(R)

1

218

216

N 1144000

N 1142000

N 1140000

N 1138000

N 1136000

E 524000

E 522000

E 520000

E 518000

E 516000

E 514000

OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

Channel Survey sounded by
Hanson Professional Services Inc.
October 5, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| WATER SURFACE | ALTON, IL | GRAFTON, IL | DIXON LANDING |
|---|---|---|---|
| ZERO N.G.V.D. | 400.00 | 403.8 | 410.6 |
| MILE | 203.0 | 218.6 | 228.3 |
| MIN. POOL | 414.0 | 418.0 | 418.1 |
| 05 OCT 2012 | | 419.4 (08:00)<br>419.4 (14:00) | 419.5 (08:00)<br>419.5 (14:00) |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL 154,000 C.F.S.!

Survey Date: October 5, 2012
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 241_20120502.dgn
Plot date: October 8, 2012
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: RCA
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

240 METERS
800 FEET
120
0
0
120
400
400

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE CONDITIONS AS SURVEYED. THE CONDITIONS ARE SUBJECT TO CHANGE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER

ILLINOIS

MISSOURI

DIKE 217.7(R)

DIKE 217.4(R)

DIKE 217.0(R)

DIKE 216.7(R)

DIKE 216.2(R)

DIKE 216.1(R)

100

217

216

N 1138000

N 1136000

N 1134000

E 522000

E 524000

E 526000

E 528000

E 530000

E 532000

N

OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

Channel Survey sounded by
Hanson Professional Services Inc.
October 5, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

US Army Corps
of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | MEL PRICE L&D (U) | ALTON, IL | GRAFTON |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 395.5 | 400.0 | 403.8 |
| MILE | | 201.1 | 203.0 | 218.6 |
| MIN. POOL | | 412.5 | 414.0 | 418.0 |
| | 05 OCT 2012 | 419.4 (08:00)<br>419.4 (14:00) | 419.4 (08:00)<br>419.4 (14:00) | 419.4 (08:00)<br>419.4 (14:00) |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1958-37 MINIMUM POOL (54,000 C.F.S.)

Surveyed by: HANSON
Survey Date: October 5, 2012
Drawn by: RCA
Ckd by: RCA
Reviewed by:
SUBMITTED: Chief, Engr. Data Mngt. Sect.
APPROVED: Chief, Geospatial Branch
File name: 241_20120502.dgn
Plot date: October 8, 2012
Plot scale: 1" = 400'

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN

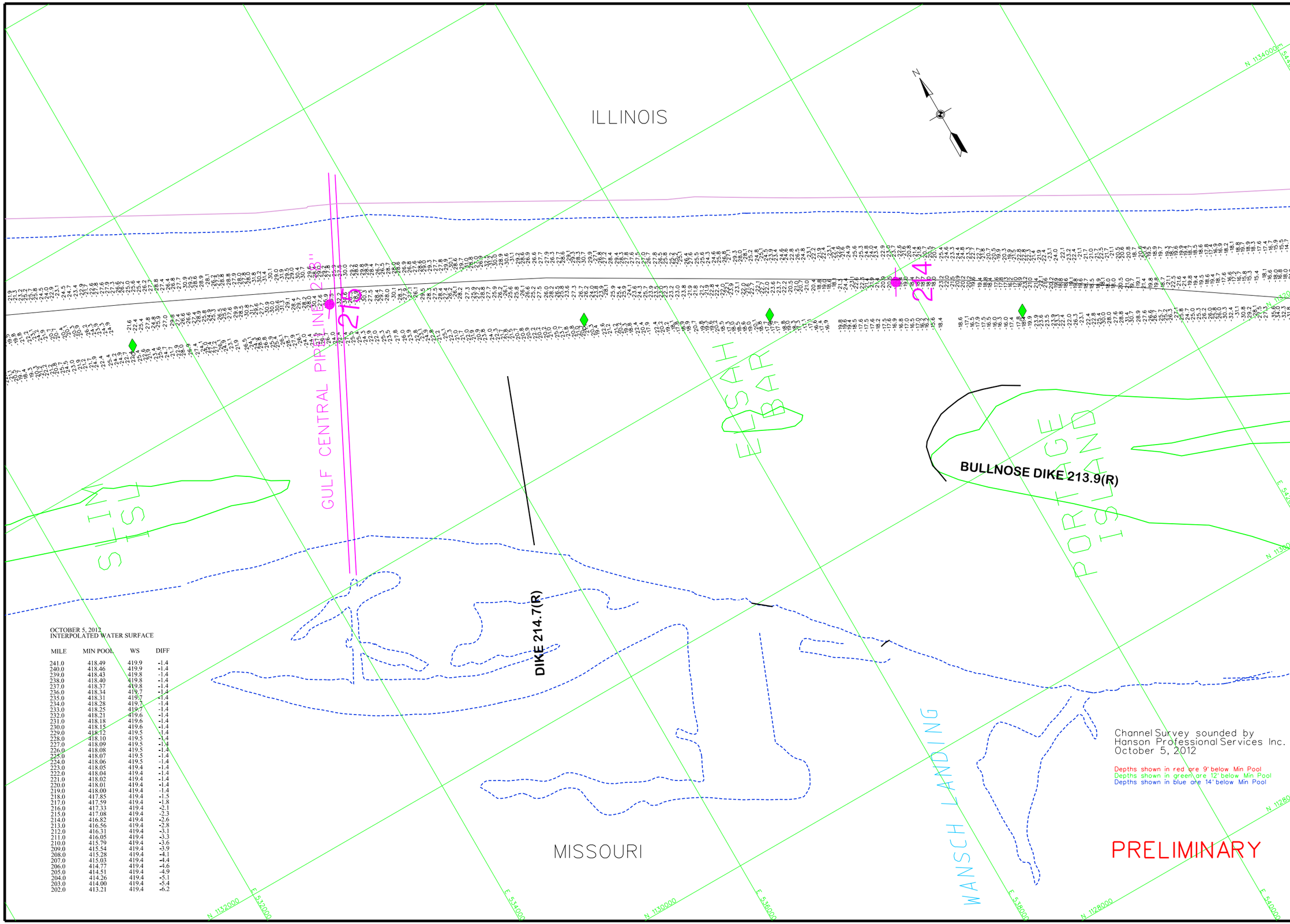
MISSISSIPPI RIVER

240 METERS
800 FEET
120
400
0
0
120
400

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESOURCES SURVEYED DURING THE SURVEY PERIOD AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE
NUMBER




OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

Channel Survey sounded by
Hanson Professional Services Inc.
October 5, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | MEL PRICE L&D (U) | ALTON, IL | GRAFTON |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 395.5 | 400.0 | 403.8 |
| MILE | | 201.1 | 203.0 | 218.6 |
| MIN POOL | | 412.5 | 414.0 | 418.0 |
| | 05 OCT 2012 | 419.4 (08:00) | 419.4 (08:00) | 419.4 (08:00) |
| | | 419.4 (14:00) | 419.4 (14:00) | 419.4 (14:00) |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

Survey Date: October 5, 2012
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 241_20\U0512.dgn
Plot date: October 8, 2012
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: RCA
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

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

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER

OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

ILLINOIS

MISSOURI

DIKE 212.7(L)

DIKE 212.3(L)

DIKE 212.0(L)

DIKE 211.6(L)

DIKE 211.3(L)

DIKE 211.2(L)

DIKE 212.9(R)

DIKE 212.4(R)

DIKE 212.2(R)

1-5" SUBMARINE COMM. CABLES

1-5" SUBMARINE COMM. CABLES

IL-100

100

N

E 554000

E 552000

E 550000

E 548000

E 546000

E 544000

E 542000

N 1130000

N 1128000

N 1126000

GAGE RECORD

| | WATER SURFACE | MEL PRICE L&D (U) | ALTON, IL | GRAFTON |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 395.5 | 400.0 | 403.8 |
| MILE | | 201.1 | 203.0 | 218.6 |
| MIN. POOL | | 412.5 | 414.0 | 418.0 |
| 05 OCT 2012 | | 419.4 (08:00) | 419.4 (08:00) | 419.4 (08:00) |
| | | 419.4 (14:00) | 419.4 (14:00) | 419.4 (14:00) |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 SUMMER POOL (34,000 C.F.S.)

Channel Survey sounded by
Hanson Professional Services Inc.
October 5, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

US Army Corps of Engineers
St. Louis District

Surveyed by: HANSON
Survey Date: October 5, 2012
Drawn by: RCA
Ckd by: RCA
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
Reviewed by:
File name: 241_20120512.dgn
APPROVED:
Plot date: October 8, 2012
Plot scale: 1"=400'
Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

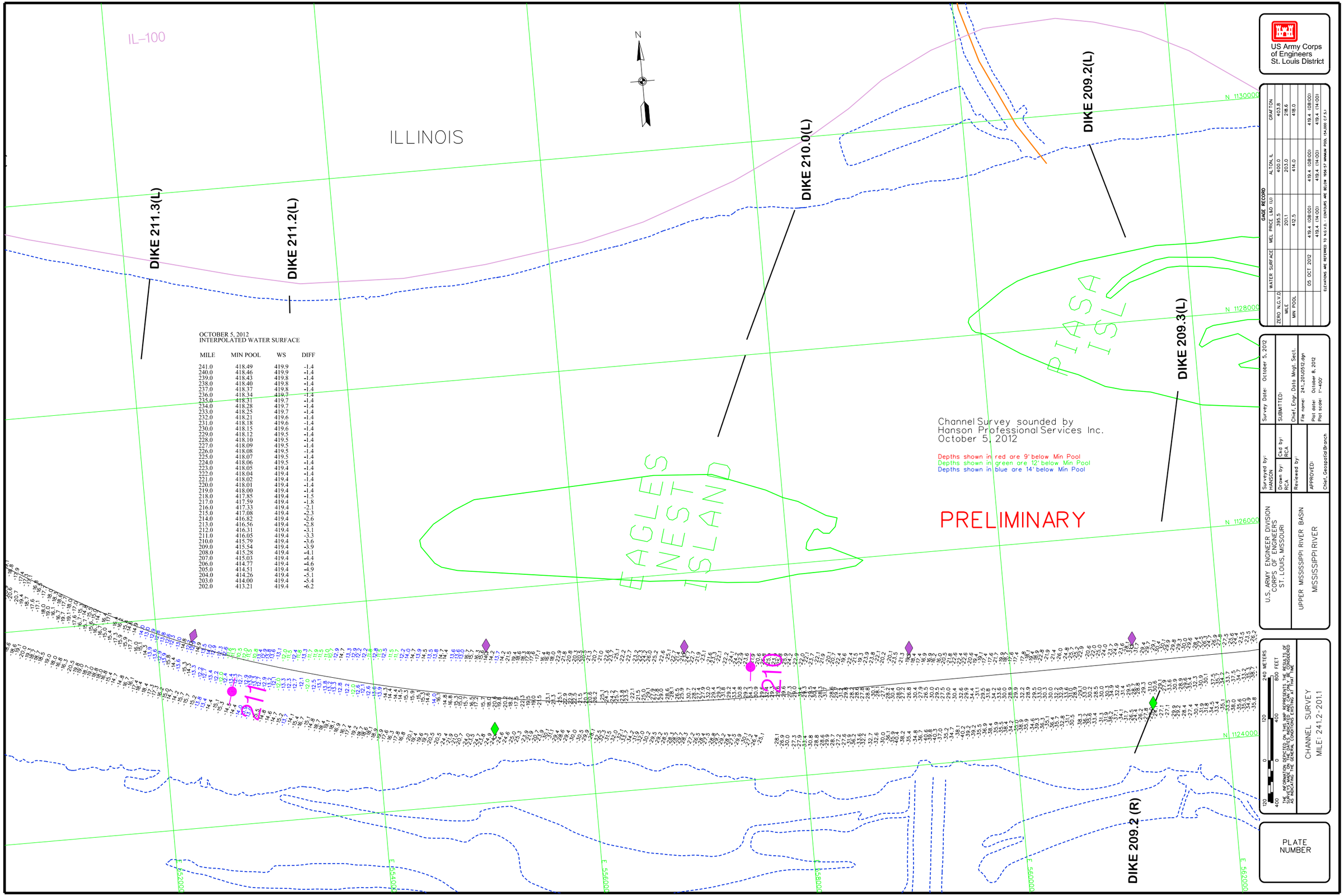
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
0 120 400
120 400

THE MAP INFORMATION REPRESENTED ON THIS MAP REFLECTS THE CONDITIONS AT THE TIME OF THE SURVEY AND IS SUBJECT TO CHANGE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER




OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | MEL PRICE L&D (U) | ALTON, IL | GRAFTON |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 395.5 | 400.0 | 403.8 |
| MILE | | 201.1 | 203.0 | 218.6 |
| MIN POOL | | 412.5 | 414.0 | 418.0 |
| | 05 OCT 2012 | 419.4 (08:00) | 419.4 (08:00) | 419.4 (08:00) |
| | | 419.4 (14:00) | 419.4 (14:00) | 419.4 (14:00) |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

Survey Date: October 5, 2012

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 241_20120512.dgn

Plot date: October 8, 2012

Plot scale: 1"=400'

Surveyed by: HANSON

Drawn by: RCA

Ckd by: RCA

Reviewed by:

APPROVED:

Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

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

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER

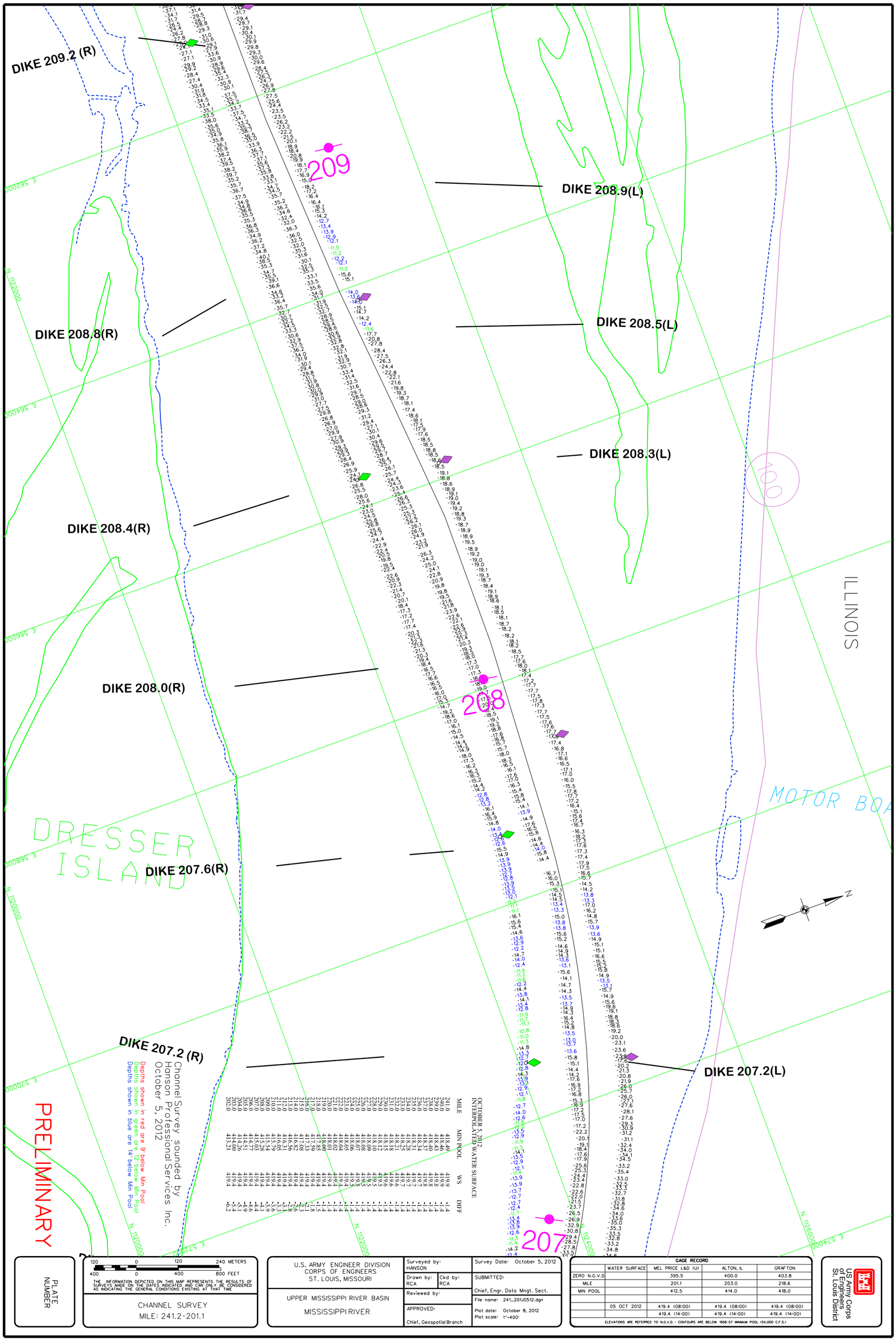



PLATE NUMBER

120 0 120 240 METERS
400 0 400 800 FEET

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

CHANNEL SURVEY
MILE: 241.2-201.1

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

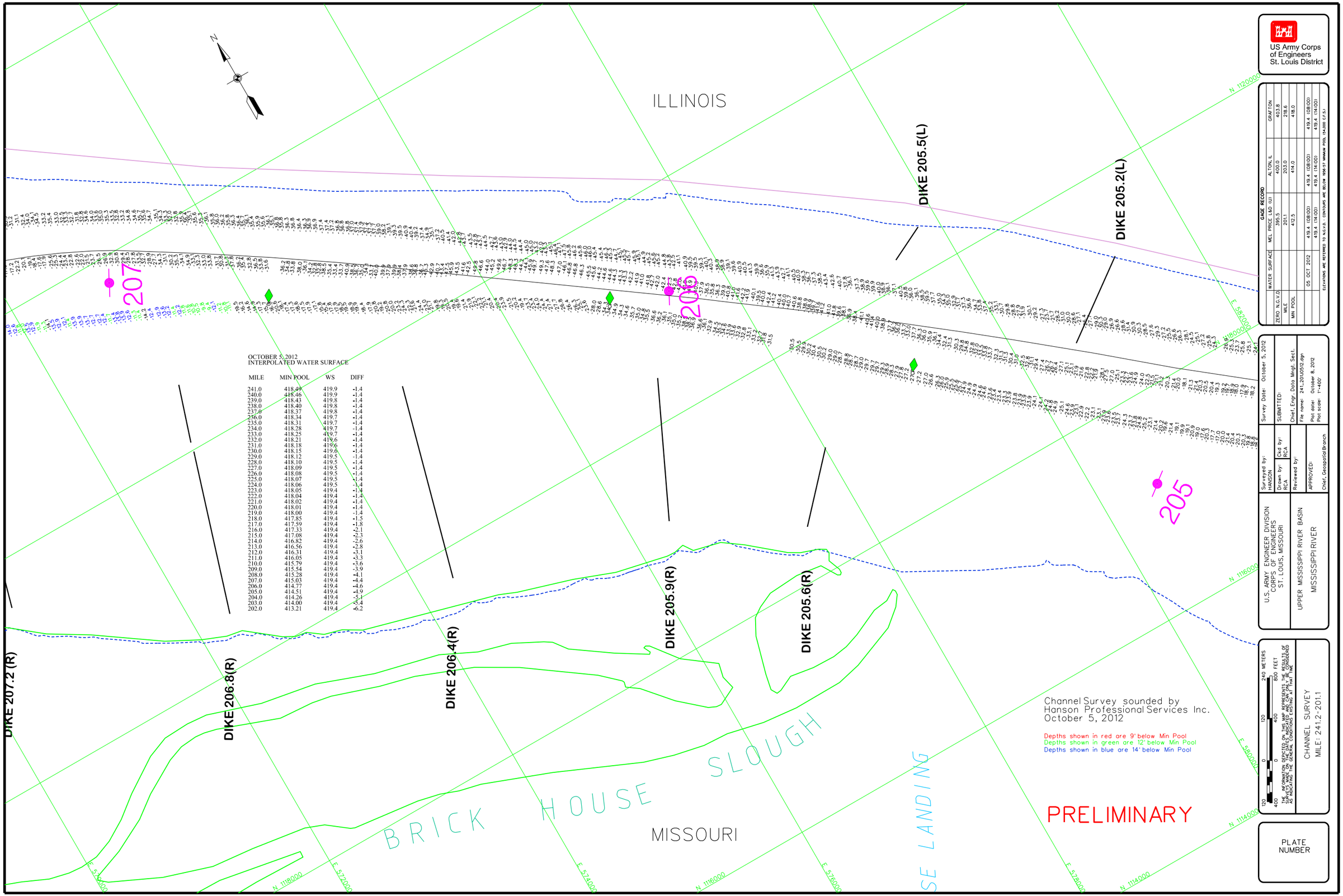
| | | | |
|---|---|---|---|
| Surveyed by: HANSON | | Survey Date: October 5, 2012 | |
| Drawn by: RCA | Ckd by: RCA | SUBMITTED: | |
| Reviewed by: | | Chief, Engr. Data Mngt. Sect. | |
| APPROVED: | | File name: 241_20120512.dgn | |
| Chief, Geospatial Branch | | Plot date: October 8, 2012<br>Plot scale: 1"=400' | |

GAGE RECORD

| | WATER SURFACE | MEL PRICE L&D (U) | ALTON, IL | GRAFTON |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 395.5 | 400.0 | 403.8 |
| MILE | | 201.1 | 203.0 | 218.6 |
| MIN POOL | | 412.5 | 414.0 | 418.0 |
| | | | | |
| | 05 OCT 2012 | 419.4 (08:00) | 419.4 (08:00) | 419.4 (08:00) |
| | | 419.4 (14:00) | 419.4 (14:00) | 419.4 (14:00) |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

US Army Corps of Engineers St. Louis District




OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | MEL PRICE L&D (U) | ALTON, IL | GRAFTON |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 395.5 | 400.0 | 403.8 |
| MILE | | 201.1 | 203.0 | 218.6 |
| MIN POOL | | 412.5 | 414.0 | 418.0 |
| | 05 OCT 2012 | 419.4 (08:00) | 419.4 (08:00) | 419.4 (08:00) |
| | | 419.4 (14:00) | 419.4 (14:00) | 419.4 (14:00) |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

Surveyed by: HANSON
Drawn by: RCA
Ckd by: RCA
Reviewed by:
APPROVED: Chief, Geospatial Branch
Survey Date: October 5, 2012
SUBMITTED: Chief, Engr. Data Mngt. Sect.
File name: 241_20\J0512.dgn
Plot date: October 8, 2012
Plot scale: 1"=400'

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

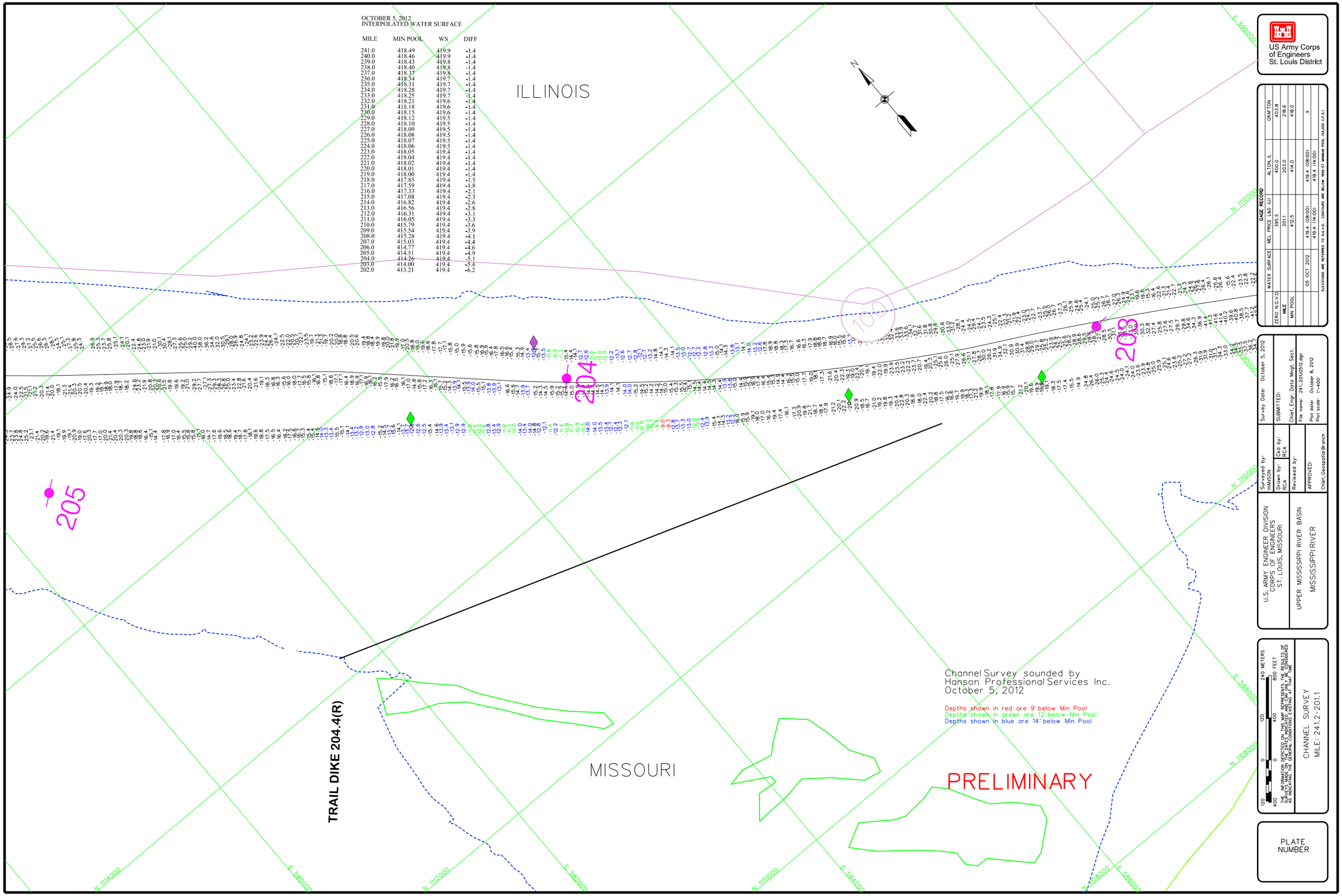
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER

OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |




US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | MEL PRICE L&D (U) | ALTON, IL | GRAFTON |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 395.5 | 400.0 | 403.8 |
| MILE | | 201.1 | 203.0 | 218.6 |
| MIN POOL | | 412.5 | 414.0 | 418.0 |
| | 05 OCT 2012 | 419.4 (08:00) | 419.4 (08:00) | X |
| | | 419.4 (14:00) | 419.4 (14:00) | |

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

Survey Date: October 5, 2012

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 241_20100512.dgn

Plot date: October 8, 2012

Plot scale: 1"=400'

Surveyed by: HANSON

Drawn by: RCA

Ckd by: RCA

Reviewed by:

APPROVED:

Chief, Geospatial Branch

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

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.

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER

ILLINOIS

MISSOURI

DIKE 202.0(L)

DIKE 202.5(R)

DIKE 202.3(R)

ELLIS ISLAND

ALTON SLOUGH

SKINNY

CLARK HIGHWAY BRIDGE

BRIDGE PIER

MEL PRICE LOCK & DAM

201

202

203

143

67

N

E 600000

N 1106000

N 1104000

N 1102000

N 1100000

N 1098000

N 1096000

N 1094000

N 1092000

N 1090000

N 1088000

N 1086000

N 1084000

N 1082000

N 1080000

N 1078000

N 1076000

N 1074000

N 1072000

N 1070000

N 1068000

N 1066000

N 1064000

E 598000

E 596000

E 594000

E 592000

E 590000

E 588000

E 586000

E 584000

E 582000

E 580000

E 578000

E 576000

E 574000

E 572000

E 570000

E 568000

E 566000

E 564000

E 562000

E 560000

E 558000

E 556000

E 554000

E 552000

E 550000

E 548000

E 546000

E 544000

E 542000

E 540000

E 538000

E 536000

E 534000

E 532000

E 530000

E 528000

E 526000

E 524000

E 522000

E 520000

E 518000

E 516000

E 514000

E 512000

E 510000

E 508000

E 506000

E 504000

E 502000

E 500000

E 498000

E 496000

E 494000

E 492000

E 490000

E 488000

E 486000

E 484000

E 482000

E 480000

E 478000

E 476000

E 474000

E 472000

E 470000

E 468000

E 466000

E 464000

E 462000

E 460000

E 458000

E 456000

E 454000

E 452000

E 450000

E 448000

E 446000

E 444000

E 442000

E 440000

E 438000

E 436000

E 434000

E 432000

E 430000

E 428000

E 426000

E 424000

E 422000

E 420000

E 418000

E 416000

E 414000

E 412000

E 410000

E 408000

E 406000

E 404000

E 402000

E 400000

E 398000

E 396000

E 394000

E 392000

E 390000

E 388000

E 386000

E 384000

E 382000

E 380000

E 378000

E 376000

E 374000

E 372000

E 370000

E 368000

E 366000

E 364000

E 362000

E 360000

E 358000

E 356000

E 354000

E 352000

E 350000

E 348000

E 346000

E 344000

E 342000

E 340000

E 338000

E 336000

E 334000

E 332000

E 330000

E 328000

E 326000

E 324000

E 322000

E 320000

E 318000

E 316000

E 314000

E 312000

E 310000

E 308000

E 306000

E 304000

E 302000

E 300000

E 298000

E 296000

E 294000

E 292000

E 290000

E 288000

E 286000

E 284000

E 282000

E 280000

E 278000

E 276000

E 274000

E 272000

E 270000

E 268000

E 266000

E 264000

E 262000

E 260000

E 258000

E 256000

E 254000

E 252000

E 250000

E 248000

E 246000

E 244000

E 242000

E 240000

E 238000

E 236000

E 234000

E 232000

E 230000

E 228000

E 226000

E 224000

E 222000

E 220000

E 218000

E 216000

E 214000

E 212000

E 210000

E 208000

E 206000

E 204000

E 202000

E 200000

E 198000

E 196000

E 194000

E 192000

E 190000

E 188000

E 186000

E 184000

E 182000

E 180000

E 178000

E 176000

E 174000

E 172000

E 170000

E 168000

E 166000

E 164000

E 162000

E 160000

E 158000

E 156000

E 154000

E 152000

E 150000

E 148000

E 146000

E 144000

E 142000

E 140000

E 138000

E 136000

E 134000

E 132000

E 130000

E 128000

E 126000

E 124000

E 122000

E 120000

E 118000

E 116000

E 114000

E 112000

E 110000

E 108000

E 106000

E 104000

E 102000

E 100000

E 98000

E 96000

E 94000

E 92000

E 90000

E 88000

E 86000

E 84000

E 82000

E 80000

E 78000

E 76000

E 74000

E 72000

E 70000

E 68000

E 66000

E 64000

E 62000

E 60000

E 58000

E 56000

E 54000

E 52000

E 50000

E 48000

E 46000

E 44000

E 42000

E 40000

E 38000

E 36000

E 34000

E 32000

E 30000

E 28000

E 26000

E 24000

E 22000

E 20000

E 18000

E 16000

E 14000

E 12000

E 10000

E 8000

E 6000

E 4000

E 2000

E 0

N 1108000

N 1106000

N 1104000

N 1102000

N 1100000

N 1098000

N 1096000

N 1094000

N 1092000

N 1090000

N 1088000

N 1086000

N 1084000

N 1082000

N 1080000

N 1078000

N 1076000

N 1074000

N 1072000

N 1070000

N 1068000

N 1066000

N 1064000

N 1062000

N 1060000

N 1058000

N 1056000

N 1054000

N 1052000

N 1050000

N 1048000

N 1046000

N 1044000

N 1042000

N 1040000

N 1038000

N 1036000

N 1034000

N 1032000

N 1030000

N 1028000

N 1026000

N 1024000

N 1022000

N 1020000

N 1018000

N 1016000

N 1014000

N 1012000

N 1010000

N 1008000

N 1006000

N 1004000

N 1002000

N 1000000

N 998000

N 996000

N 994000

N 992000

N 990000

N 988000

N 986000

N 984000

N 982000

N 980000

N 978000

N 976000

N 974000

N 972000

N 970000

N 968000

N 966000

N 964000

N 962000

N 960000

N 958000

N 956000

N 954000

N 952000

N 950000

N 948000

N 946000

N 944000

N 942000

N 940000

N 938000

N 936000

N 934000

N 932000

N 930000

N 928000

N 926000

N 924000

N 922000

N 920000

N 918000

N 916000

N 914000

N 912000

N 910000

N 908000

N 906000

N 904000

N 902000

N 900000

N 898000

N 896000

N 894000

N 892000

N 890000

N 888000

N 886000

N 884000

N 882000

N 880000

N 878000

N 876000

N 874000

N 872000

N 870000

N 868000

N 866000

N 864000

N 862000

N 860000

N 858000

N 856000

N 854000

N 852000

N 850000

N 848000

N 846000

N 844000

N 842000

N 840000

N 838000

N 836000

N 834000

N 832000

N 830000

N 828000

N 826000

N 824000

N 822000

N 820000

N 818000

N 816000

N 814000

N 812000

N 810000

N 808000

N 806000

N 804000

N 802000

N 800000

N 798000

N 796000

N 794000

N 792000

N 790000

N 788000

N 786000

N 784000

N 782000

N 780000

N 778000

N 776000

N 774000

N 772000

N 770000

N 768000

N 766000

N 764000

N 762000

N 760000

N 758000

N 756000

N 754000

N 752000

N 750000

N 748000

N 746000

N 744000

N 742000

N 740000

N 738000

N 736000

N 734000

N 732000

N 730000

N 728000

N 726000

N 724000

N 722000

N 720000

N 718000

N 716000

N 714000

N 712000

N 710000

N 708000

N 706000

N 704000

N 702000

N 700000

N 698000

N 696000

N 694000

N 692000

N 690000

N 688000

N 686000

N 684000

N 682000

N 680000

N 678000

N 676000

N 674000

N 672000

N 670000

N 668000

N 666000

N 664000

N 662000

N 660000

N 658000

N 656000

N 654000

N 652000

N 650000

N 648000

N 646000

N 644000

N 642000

N 640000

N 638000

N 636000

N 634000

N 632000

N 630000

N 628000

N 626000

N 624000

N 622000

N 620000

N 618000

N 616000

N 614000

N 612000

N 610000

N 608000

N 606000

N 604000

N 602000

N 600000

N 598000

N 596000

N 594000

N 592000

N 590000

N 588000

N 586000

N 584000

N 582000

N 580000

N 578000

N 576000

N 574000

N 572000

N 570000

N 568000

N 566000

N 564000

N 562000

N 560000

N 558000

N 556000

N 554000

N 552000

N 550000

N 548000

N 546000

N 544000

N 542000

N 540000

N 538000

N 536000

N 534000

N 532000

N 530000

N 528000

N 526000

N 524000

N 522000

N 520000

N 518000

N 516000

N 514000

N 512000

N 510000

N 508000

N 506000

N 504000

N 502000

N 500000

N 498000

N 496000

N 494000

N 492000

N 490000

N 488000

N 486000

N 484000

N 482000

N 480000

N 478000

N 476000

N 474000

N 472000

N 470000

N 468000

N 466000

N 464000

N 462000

N 460000

N 458000

N 456000

N 454000

N 452000

N 450000

N 448000

N 446000

N 444000

N 442000

N 440000

N 438000

N 436000

N 434000

N 432000

N 430000

N 428000

N 426000

N 424000

N 422000

N 420000

N 418000

N 416000

N 414000

N 412000

N 410000

N 408000

N 406000

N 404000

N 402000

N 400000

N 398000

N 396000

N 394000

N 392000

N 390000

N 388000

N 386000

N 384000

N 382000

N 380000

N 378000

N 376000

N 374000

N 372000

N 370000

N 368000

N 366000

N 364000

N 362000

N 360000

N 358000

N 356000

N 354000

N 352000

N 350000

N 348000

N 346000

N 344000

N 342000

N 340000

N 338000

N 336000

N 334000

N 332000

N 330000

N 328000

N 326000

N 324000

N 322000

N 320000

N 318000

N 316000

N 314000

N 312000

N 310000

N 308000

N 306000

N 304000

N 302000

N 300000

N 298000

N 296000

N 294000

N 292000

N 290000

N 288000

N 286000

N 284000

N 282000

N 280000

N 278000

N 276000

N 274000

N 272000

N 270000

N 268000

N 266000

N 264000

N 262000

N 260000

N 258000

N 256000

N 254000

N 252000

N 250000

N 248000

N 246000

N 244000

N 242000

N 240000

N 238000

N 236000

N 234000

N 232000

N 230000

N 228000

N 226000

N 224000

N 222000

N 220000

N 218000

N 216000

N 214000

N 212000

N 210000

N 208000

N 206000

N 204000

N 202000

N 200000

N 198000

N 196000

N 194000

N 192000

N 190000

N 188000

N 186000

N 184000

N 182000

N 180000

N 178000

N 176000

N 174000

N 172000

N 170000

N 168000

N 166000

N 164000

N 162000

N 160000

N 158000

N 156000

N 154000

N 152000

N 150000

N 148000

N 146000

N 144000

N 142000

N 140000

N 138000

N 136000

N 134000

N 132000

N 130000

N 128000

N 126000

N 124000

N 122000

N 120000

N 118000

N 116000

N 114000

N 112000

N 110000

N 108000

N 106000

N 104000

N 102000

N 100000

N 98000

N 96000

N 94000

N 92000

N 90000

N 88000

N 86000

N 84000

N 82000

N 80000

N 78000

N 76000

N 74000

N 72000

N 70000

N 68000

N 66000

N 64000

N 62000

N 60000

N 58000

N 56000

N 54000

N 52000

N 50000

N 48000

N 46000

N 44000

N 42000

N 40000

N 38000

N 36000

N 34000

N 32000

N 30000

N 28000

N 26000

N 24000

N 22000

N 20000

N 18000

N 16000

N 14000

N 12000

N 10000

N 8000

N 6000

N 4000

N 2000

N 0

OCTOBER 5, 2012
INTERPOLATED WATER SURFACE

| MILE | MIN POOL | WS | DIFF |
|---|---|---|---|
| 241.0 | 418.49 | 419.9 | -1.4 |
| 240.0 | 418.46 | 419.9 | -1.4 |
| 239.0 | 418.43 | 419.8 | -1.4 |
| 238.0 | 418.40 | 419.8 | -1.4 |
| 237.0 | 418.37 | 419.8 | -1.4 |
| 236.0 | 418.34 | 419.7 | -1.4 |
| 235.0 | 418.31 | 419.7 | -1.4 |
| 234.0 | 418.28 | 419.7 | -1.4 |
| 233.0 | 418.25 | 419.7 | -1.4 |
| 232.0 | 418.21 | 419.6 | -1.4 |
| 231.0 | 418.18 | 419.6 | -1.4 |
| 230.0 | 418.15 | 419.6 | -1.4 |
| 229.0 | 418.12 | 419.5 | -1.4 |
| 228.0 | 418.10 | 419.5 | -1.4 |
| 227.0 | 418.09 | 419.5 | -1.4 |
| 226.0 | 418.08 | 419.5 | -1.4 |
| 225.0 | 418.07 | 419.5 | -1.4 |
| 224.0 | 418.06 | 419.5 | -1.4 |
| 223.0 | 418.05 | 419.4 | -1.4 |
| 222.0 | 418.04 | 419.4 | -1.4 |
| 221.0 | 418.02 | 419.4 | -1.4 |
| 220.0 | 418.01 | 419.4 | -1.4 |
| 219.0 | 418.00 | 419.4 | -1.4 |
| 218.0 | 417.85 | 419.4 | -1.5 |
| 217.0 | 417.59 | 419.4 | -1.8 |
| 216.0 | 417.33 | 419.4 | -2.1 |
| 215.0 | 417.08 | 419.4 | -2.3 |
| 214.0 | 416.82 | 419.4 | -2.6 |
| 213.0 | 416.56 | 419.4 | -2.8 |
| 212.0 | 416.31 | 419.4 | -3.1 |
| 211.0 | 416.05 | 419.4 | -3.3 |
| 210.0 | 415.79 | 419.4 | -3.6 |
| 209.0 | 415.54 | 419.4 | -3.9 |
| 208.0 | 415.28 | 419.4 | -4.1 |
| 207.0 | 415.03 | 419.4 | -4.4 |
| 206.0 | 414.77 | 419.4 | -4.6 |
| 205.0 | 414.51 | 419.4 | -4.9 |
| 204.0 | 414.26 | 419.4 | -5.1 |
| 203.0 | 414.00 | 419.4 | -5.4 |
| 202.0 | 413.21 | 419.4 | -6.2 |

Channel Survey sounded by
Hanson Professional Services Inc.
October 5, 2012

Depths shown in red are 9' below Min Pool
Depths shown in green are 12' below Min Pool
Depths shown in blue are 14' below Min Pool

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

| | WATER SURFACE | MEL PRICE L&D (U) | ALTON, IL | GRAFTON |
|---|---|---|---|---|
| ZERO N.G.V.D. | | 395.5 | 400.0 | 403.8 |
| MILE | | 201.1 | 203.0 | 218.6 |
| MIN. POOL | | 412.5 | 414.0 | 418.0 |
| | 05 OCT 2012 | 419.4 (08:00) | 419.4 (08:00) | X |
| | | 419.4 (14:00) | 419.4 (14:00) | |

ELEVATIONS ARE REFERRED TO NGVD - CONTOURS ARE BELOW 1956-57 MINIMUM POOL (54,000 C.F.S.)

| | | | |
|---|---|---|---|
| Surveyed by: HANSON | Survey Date: October 5, 2012 | | |
| Drawn by: RCA | Ckd by: RCA | SUBMITTED: Chief, Engr. Data Mngt. Sect. | |
| Reviewed by: | | File name: 241_20120502.dgn | |
| APPROVED: Chief, Geospatial Branch | | Plot date: October 8, 2012 | |
| | | Plot scale: 1"=400' | |

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

249 METERS
800 FEET
120
400
0
0
120
400

THE HORIZONTAL POSITIONS ON THIS MAP REPRESENT THE ROUGHNESS OF THE RIVERBED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 241.2-201.1

PLATE NUMBER