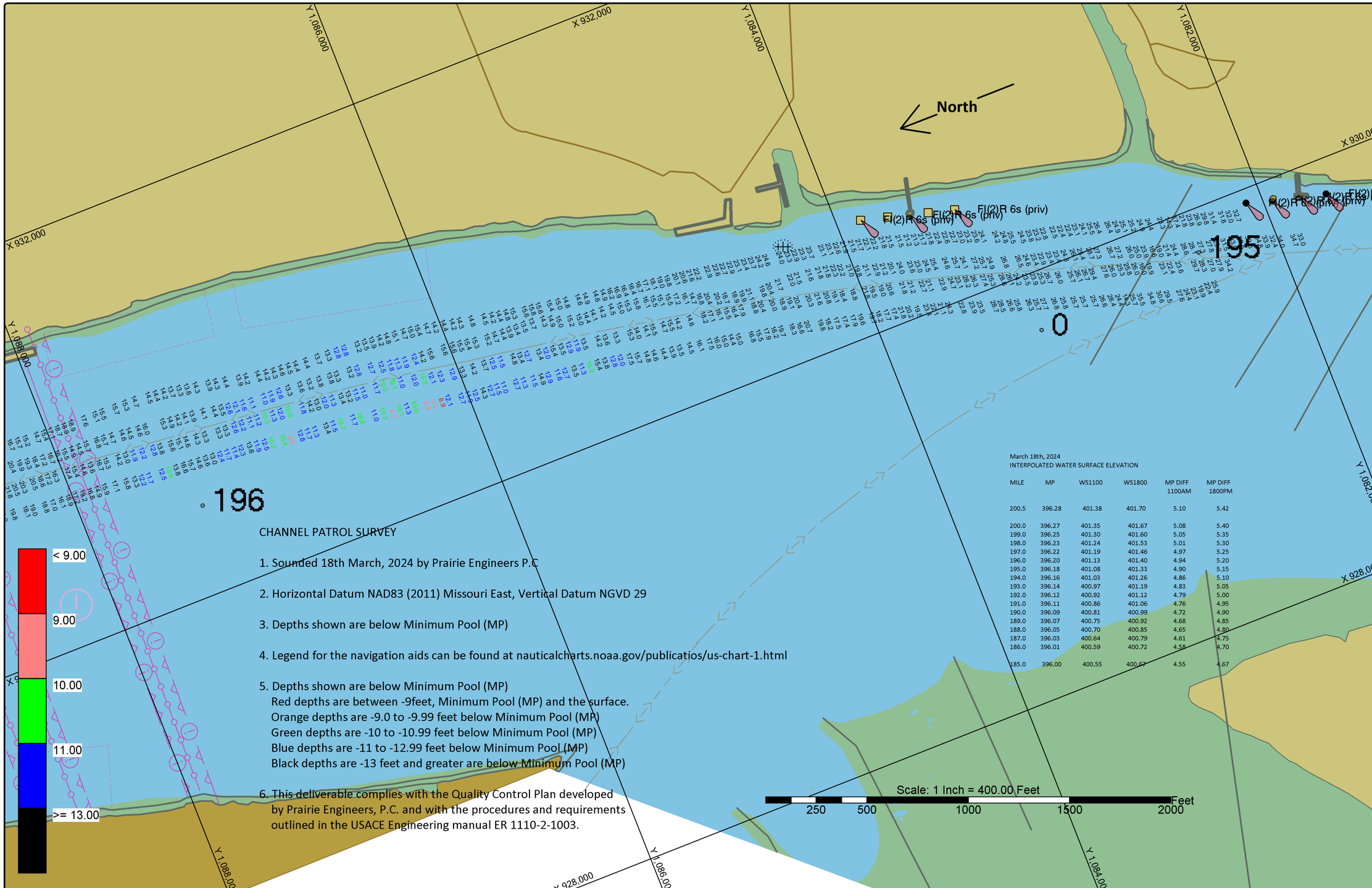


CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
200.5	396.28	401.38	401.70	5.10	5.42
200.0	396.27	401.35	401.67	5.08	5.40
199.0	396.25	401.30	401.60	5.05	5.35
198.0	396.23	401.24	401.53	5.01	5.30
197.0	396.22	401.19	401.46	4.97	5.25
196.0	396.20	401.13	401.40	4.94	5.20
195.0	396.18	401.08	401.33	4.90	5.15
194.0	396.16	401.03	401.26	4.86	5.10
193.0	396.14	400.97	401.19	4.83	5.05
192.0	396.12	400.92	401.12	4.79	5.00
191.0	396.11	400.86	401.06	4.76	4.95
190.0	396.09	400.81	400.99	4.72	4.90
189.0	396.07	400.75	400.92	4.68	4.85
188.0	396.05	400.70	400.85	4.65	4.80
187.0	396.03	400.64	400.79	4.61	4.75
186.0	396.01	400.59	400.72	4.58	4.70
185.0	396.00	400.55	400.67	4.55	4.67

ST.LOUIS

Gage Records 18th March 2024
LD27 Granite City (Upper) @ 1100AM = 50.55ft
LD26 Melpirce (Lower) @ 1100AM = 5.90ft
LD27 Granite City (Upper) @ 1800PM = 50.67ft
LD26 Melpirce (Lower) @ 1800PM = 6.22ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

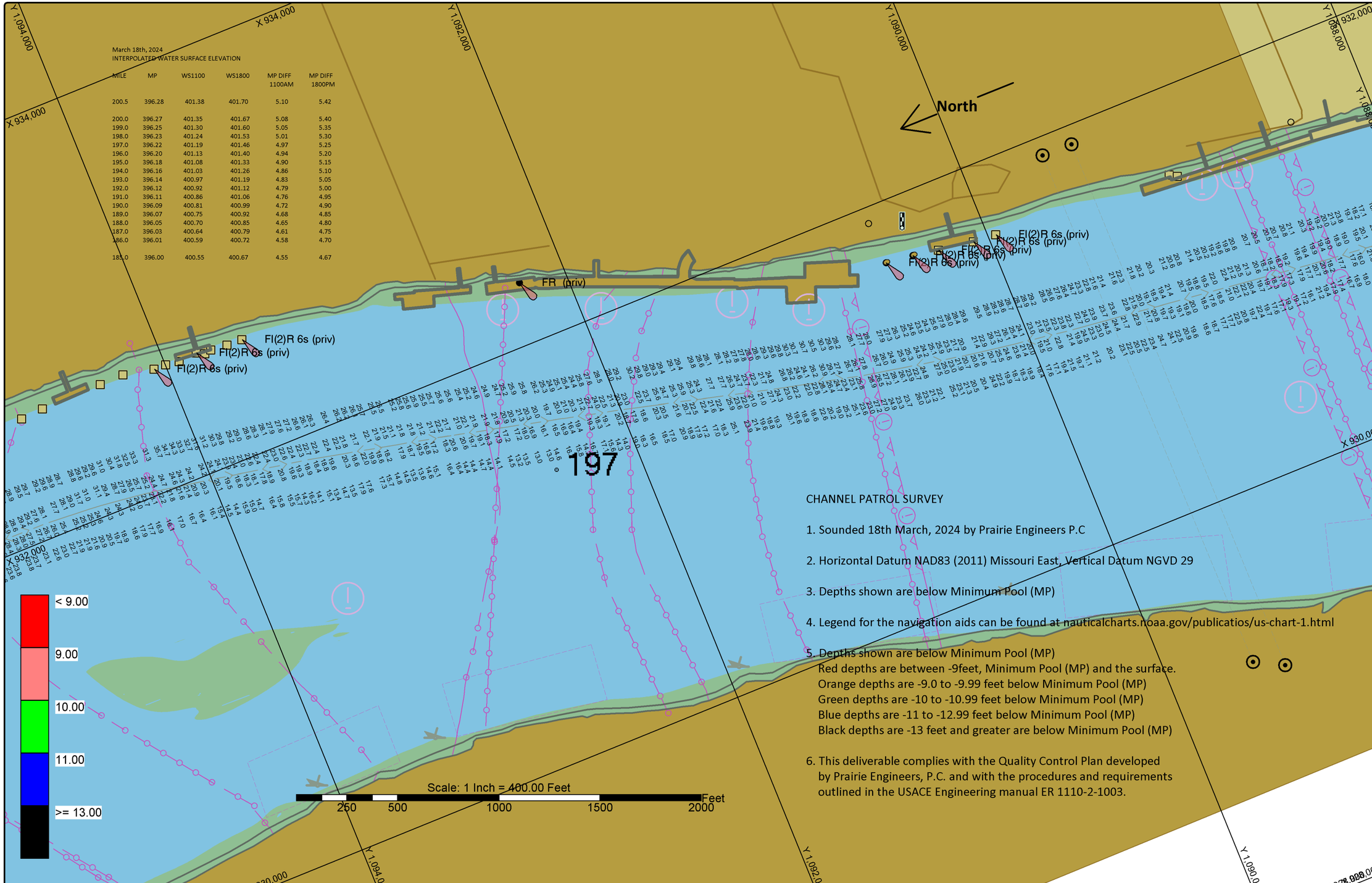
CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 001

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
200.5	396.28	401.38	401.70	5.10	5.42
200.0	396.27	401.35	401.67	5.08	5.40
199.0	396.25	401.30	401.60	5.05	5.35
198.0	396.23	401.24	401.53	5.01	5.30
197.0	396.22	401.19	401.46	4.97	5.25
196.0	396.20	401.13	401.40	4.94	5.20
195.0	396.18	401.08	401.33	4.90	5.15
194.0	396.16	401.03	401.26	4.86	5.10
193.0	396.14	400.97	401.19	4.83	5.05
192.0	396.12	400.92	401.12	4.79	5.00
191.0	396.11	400.86	401.06	4.76	4.95
190.0	396.09	400.81	400.99	4.72	4.90
189.0	396.07	400.75	400.92	4.68	4.85
188.0	396.05	400.70	400.85	4.65	4.80
187.0	396.03	400.64	400.79	4.61	4.75
186.0	396.01	400.59	400.72	4.58	4.70
185.0	396.00	400.55	400.67	4.55	4.67



CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
Red depths are between -9feet, Minimum Pool (MP) and the surface.
Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
Green depths are -10 to -10.99 feet below Minimum Pool (MP)
Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
LD27 Granite City (Upper) @ 1100AM = 50.55ft
LD26 Melpirce (Lower) @ 1100AM = 5.90ft
LD27 Granite City (Upper) @ 1800PM = 50.67ft
LD26 Melpirce (Lower) @ 1800PM = 6.22ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 002

CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

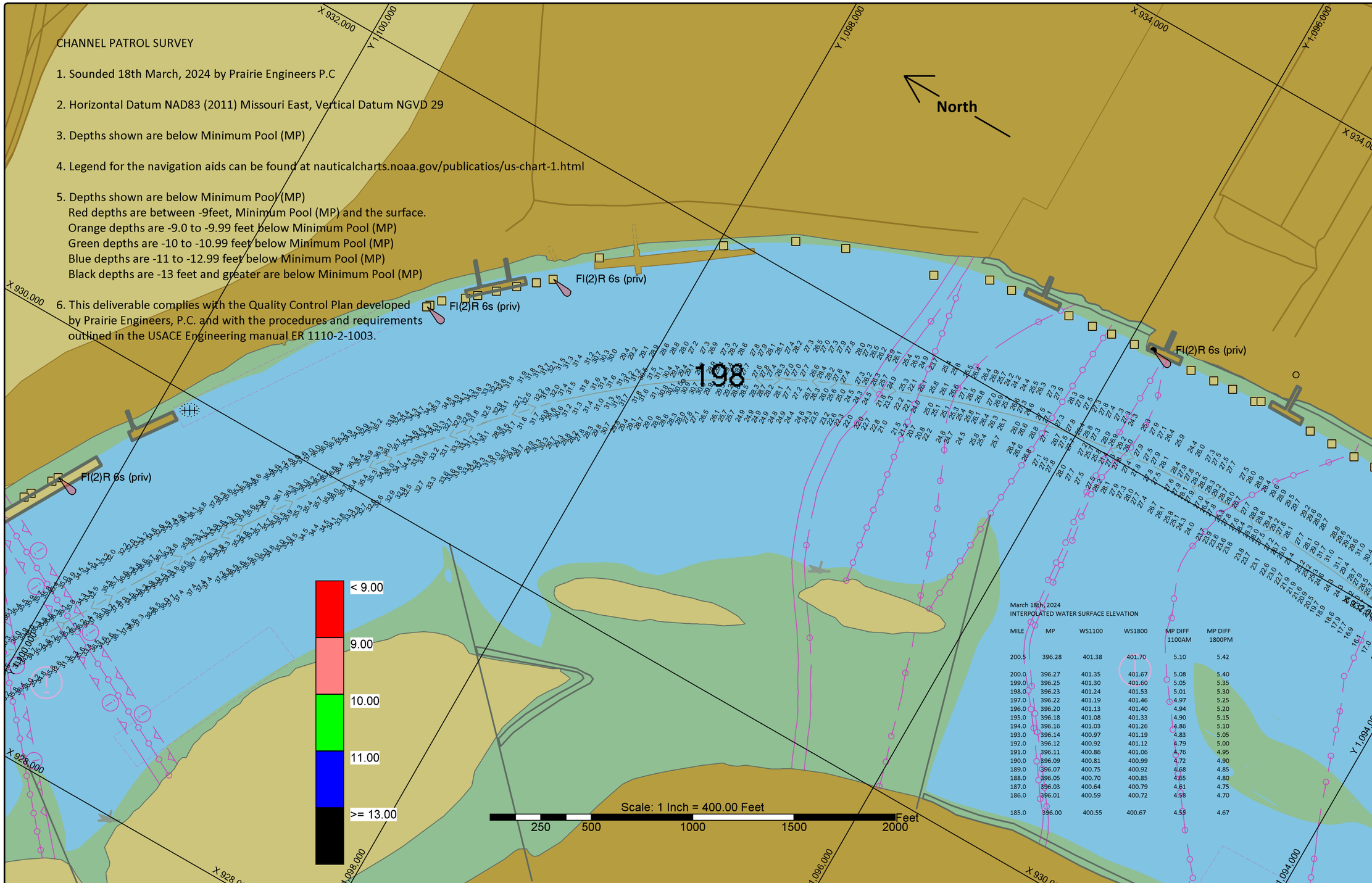
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
200.5	396.28	401.38	401.70	5.10	5.42
200.0	396.27	401.35	401.67	5.08	5.40
199.0	396.25	401.30	401.60	5.05	5.35
198.0	396.23	401.24	401.53	5.01	5.30
197.0	396.22	401.19	401.46	4.97	5.25
196.0	396.20	401.13	401.40	4.94	5.20
195.0	396.18	401.08	401.33	4.90	5.15
194.0	396.16	401.03	401.26	4.86	5.10
193.0	396.14	400.97	401.19	4.83	5.05
192.0	396.12	400.92	401.12	4.79	5.00
191.0	396.11	400.86	401.06	4.76	4.95
190.0	396.09	400.81	400.99	4.72	4.90
189.0	396.07	400.75	400.92	4.68	4.85
188.0	396.05	400.70	400.85	4.65	4.80
187.0	396.03	400.64	400.79	4.61	4.75
186.0	396.01	400.59	400.72	4.58	4.70
185.0	396.00	400.55	400.67	4.55	4.67

ST.LOUIS

Gage Records 18th March 2024
LD27 Granite City (Upper) @ 1100AM = 50.55ft
LD26 Melprice (Lower) @ 1100AM = 5.90ft
LD27 Granite City (Upper) @ 1800PM = 50.67ft
LD26 Melprice (Lower) @ 1800PM = 6.22ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

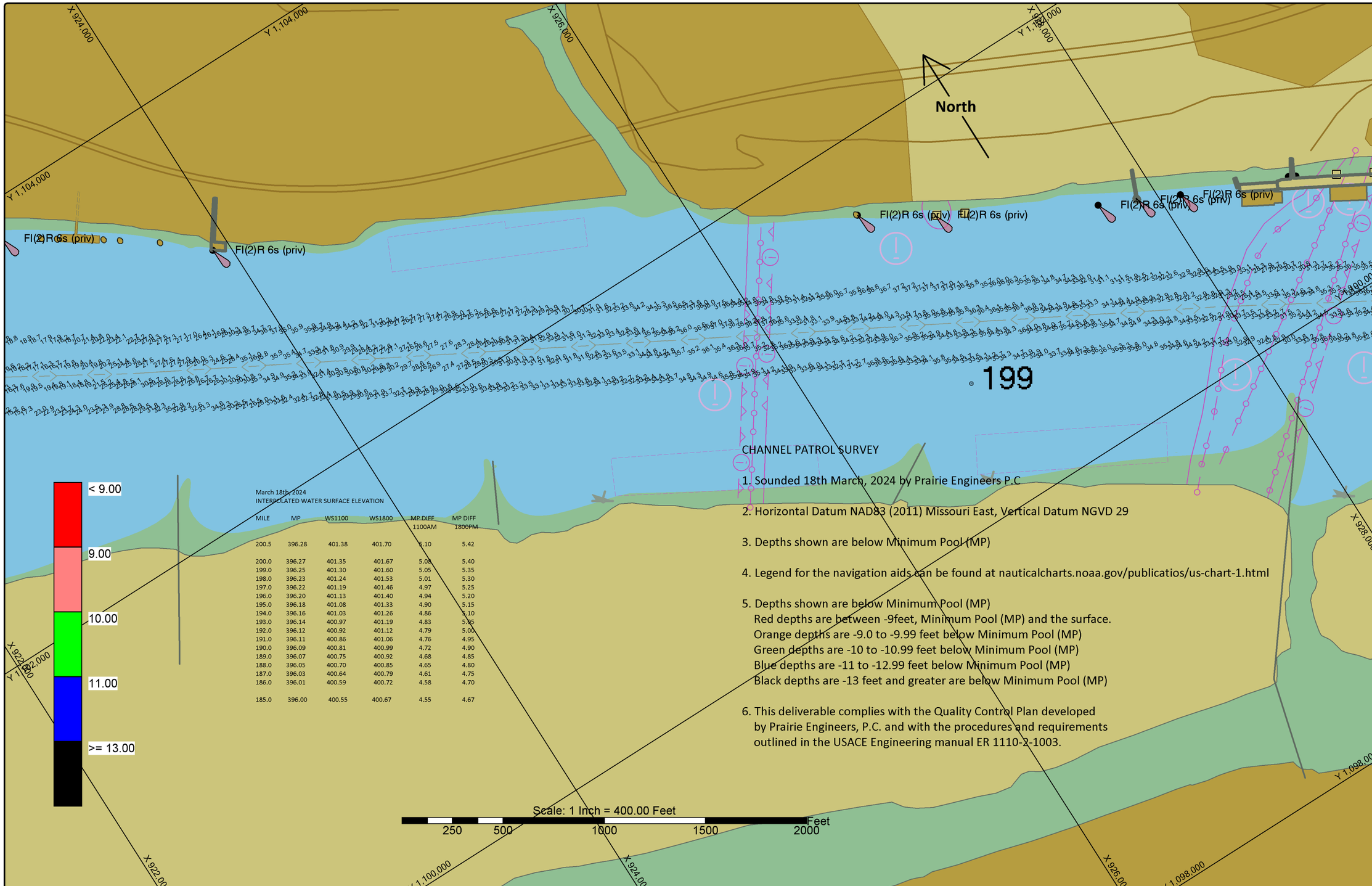
US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 003



March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
200.5	396.28	401.38	401.70	5.10	5.42
200.0	396.27	401.35	401.67	5.08	5.40
199.0	396.25	401.30	401.60	5.05	5.35
198.0	396.23	401.24	401.53	5.01	5.30
197.0	396.22	401.19	401.46	4.97	5.25
196.0	396.20	401.13	401.40	4.94	5.20
195.0	396.18	401.08	401.33	4.90	5.15
194.0	396.16	401.03	401.26	4.86	5.10
193.0	396.14	400.97	401.19	4.83	5.05
192.0	396.12	400.92	401.12	4.79	5.00
191.0	396.11	400.86	401.06	4.76	4.95
190.0	396.09	400.81	400.99	4.72	4.90
189.0	396.07	400.75	400.92	4.68	4.85
188.0	396.05	400.70	400.85	4.65	4.80
187.0	396.03	400.64	400.79	4.61	4.75
186.0	396.01	400.59	400.72	4.58	4.70
185.0	396.00	400.55	400.67	4.55	4.67

CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
LD27 Granite City (Upper) @ 1100AM = 50.55ft
LD26 Melpirce (Lower) @ 1100AM = 5.90ft
LD27 Granite City (Upper) @ 1800PM = 50.67ft
LD26 Melpirce (Lower) @ 1800PM = 6.22ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

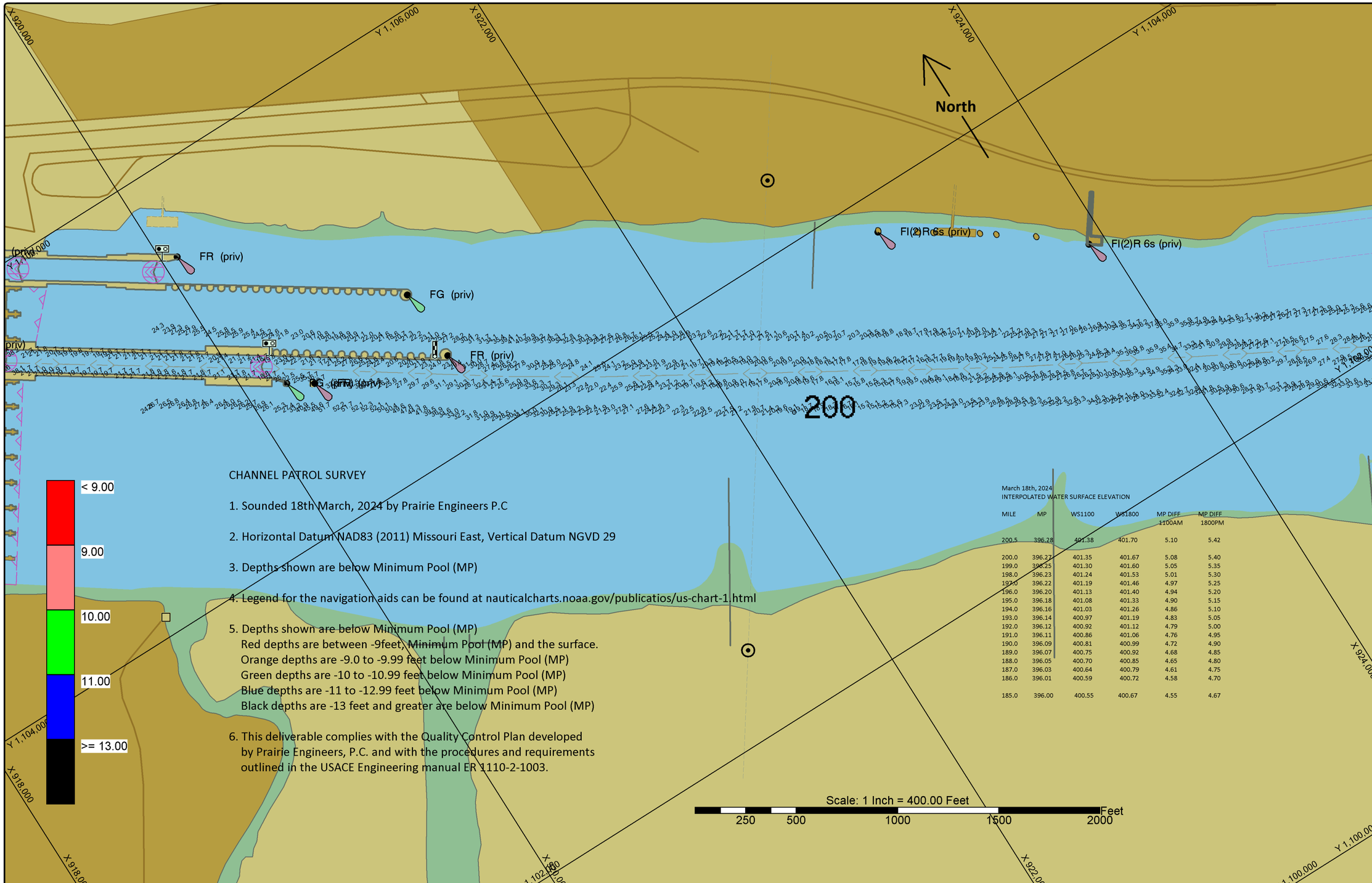
US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 004



CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
200.5	396.28	401.38	401.70	5.10	5.42
200.0	396.27	401.35	401.67	5.08	5.40
199.0	396.25	401.30	401.60	5.05	5.35
198.0	396.23	401.24	401.53	5.01	5.30
197.0	396.22	401.19	401.46	4.97	5.25
196.0	396.20	401.13	401.40	4.94	5.20
195.0	396.18	401.08	401.33	4.90	5.15
194.0	396.16	401.03	401.26	4.86	5.10
193.0	396.14	400.97	401.19	4.83	5.05
192.0	396.12	400.92	401.12	4.79	5.00
191.0	396.11	400.86	401.06	4.76	4.95
190.0	396.09	400.81	400.99	4.72	4.90
189.0	396.07	400.75	400.92	4.68	4.85
188.0	396.05	400.70	400.85	4.65	4.80
187.0	396.03	400.64	400.79	4.61	4.75
186.0	396.01	400.59	400.72	4.58	4.70
185.0	396.00	400.55	400.67	4.55	4.67

ST.LOUIS

Gage Records 18th March 2024
LD27 Granite City (Upper) @ 1100AM = 50.55ft
LD26 Melprice (Lower) @ 1100AM = 5.90ft
LD27 Granite City (Upper) @ 1800PM = 50.67ft
LD26 Melprice (Lower) @ 1800PM = 6.22ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

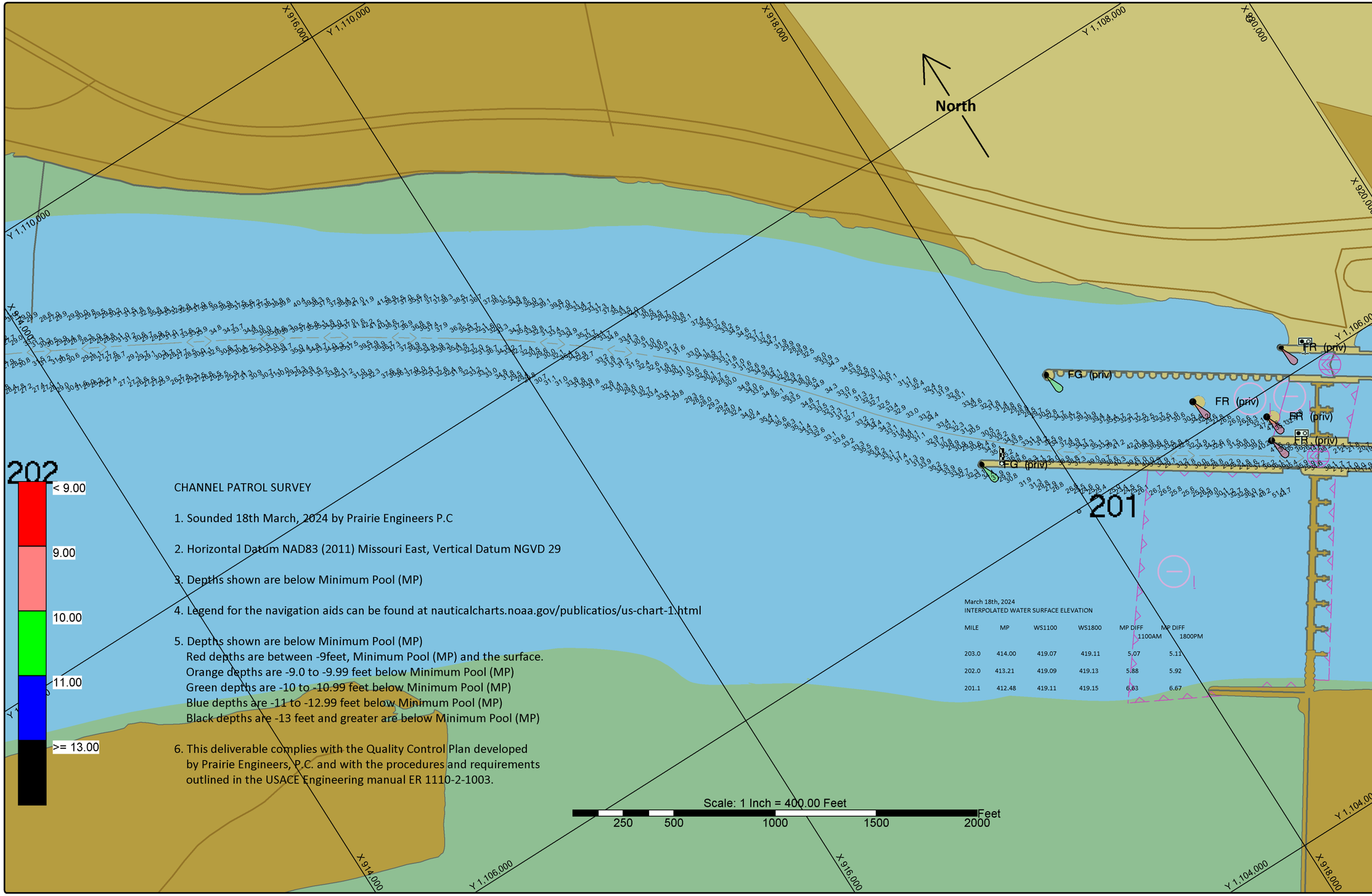
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 005



CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
203.0	414.00	419.07	419.11	5.07	5.11
202.0	413.21	419.09	419.13	5.88	5.92
201.1	412.48	419.11	419.15	6.63	6.67

ST.LOUIS

Gage Records 18th March 2024
Melprice (Upper) @ 1100AM = 23.63ft @ 1800PM= 23.67ft
Alton gage @ 1100AM = 19.07ft @ 1800PM= 19.11ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

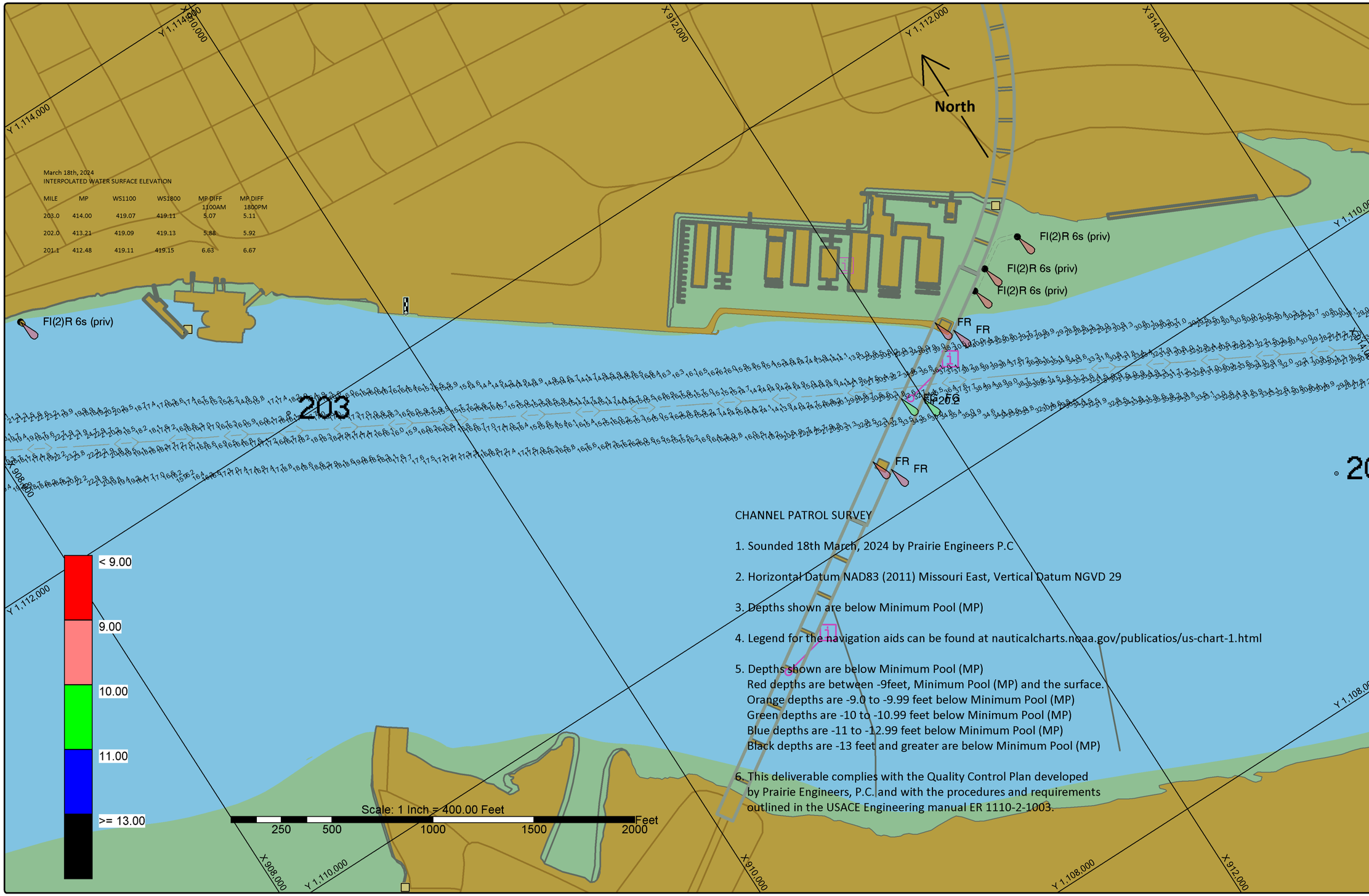
CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 006

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
203.0	414.00	419.07	419.11	5.07	5.11
202.0	413.21	419.09	419.13	5.88	5.92
201.1	412.48	419.11	419.15	6.63	6.67



CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
Melprice (U) @ 1100AM = 23.63ft; @ 1800PM = 23.67ft
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 007

CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

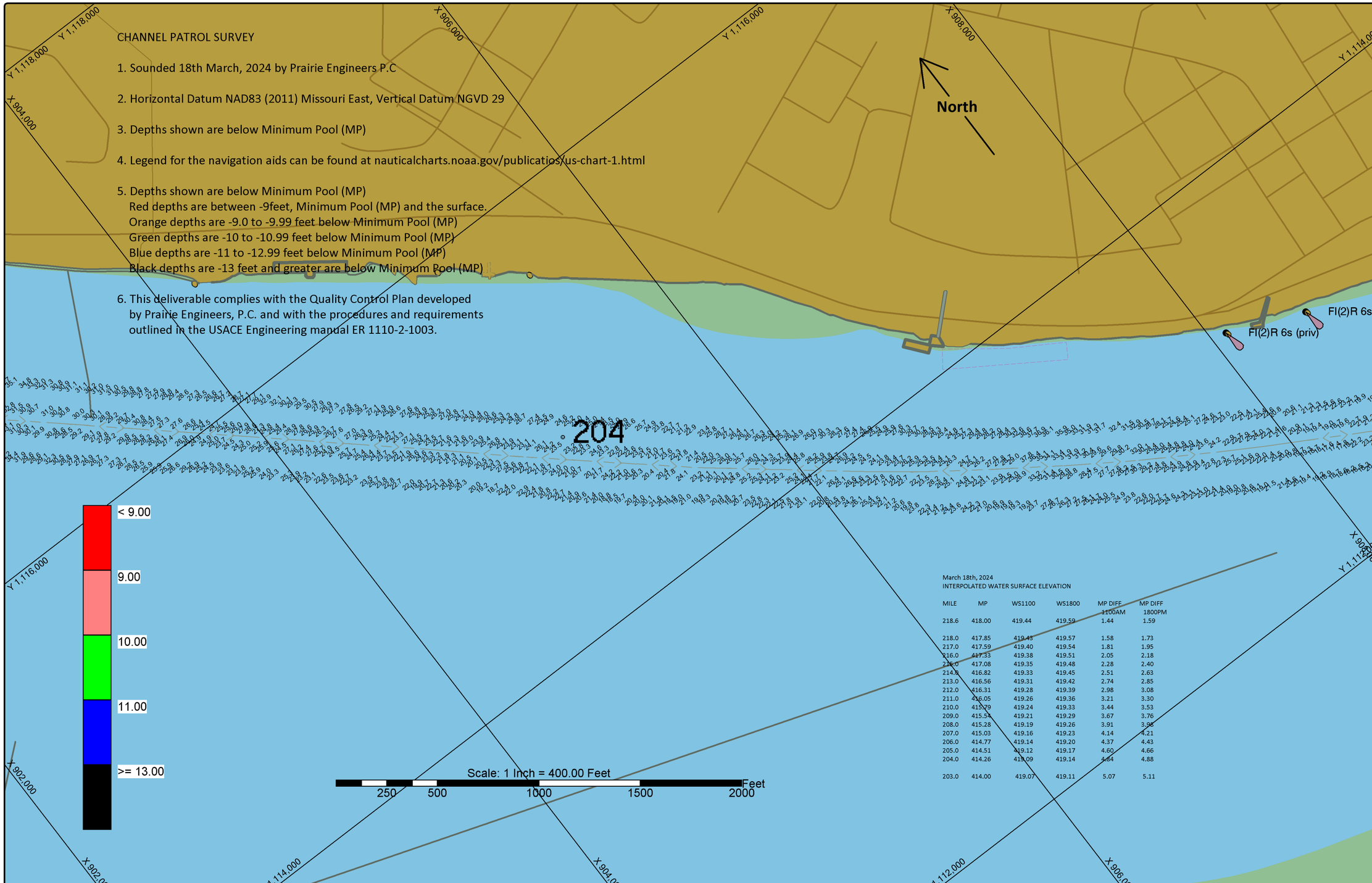
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 008

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11

Y 1,122,000
X 900,000
Y 1,122,000
X 902,000
Y 1,122,000
X 904,000
Y 1,118,000
X 904,000
Y 1,120
X 898,000
Y 1,118,000
X 898,000
X 900,000
Y 1,116,000
X 902,000
Y 1,116,000

North

< 9.00
9.00
10.00
11.00
>= 13.00

Scale: 1 Inch = 400.00 Feet
250 500 1000 1500 2000 Feet

CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024
FILE NO.: REQUEST NO.:
SCALE: ONE INCH = 400 FEET
FIELD BOOKS:

Approved: Abednego Nkem, FIELD CARTOGRAPHER
Approved: Tom Frerichs, CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer, ASST. CHIEF OF SURVEY
Approved: Tristan Harper, CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

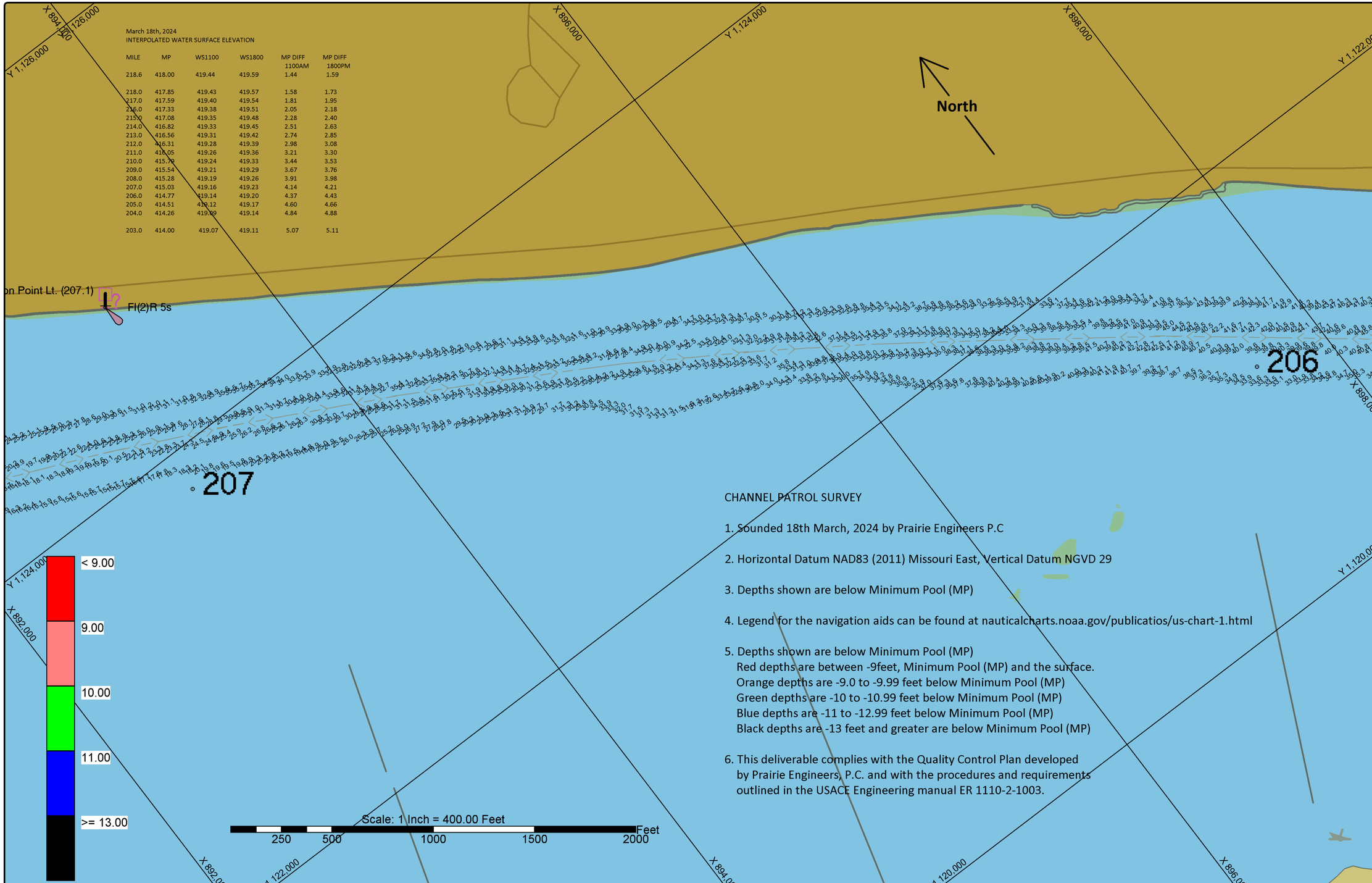
SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 009

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11



CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

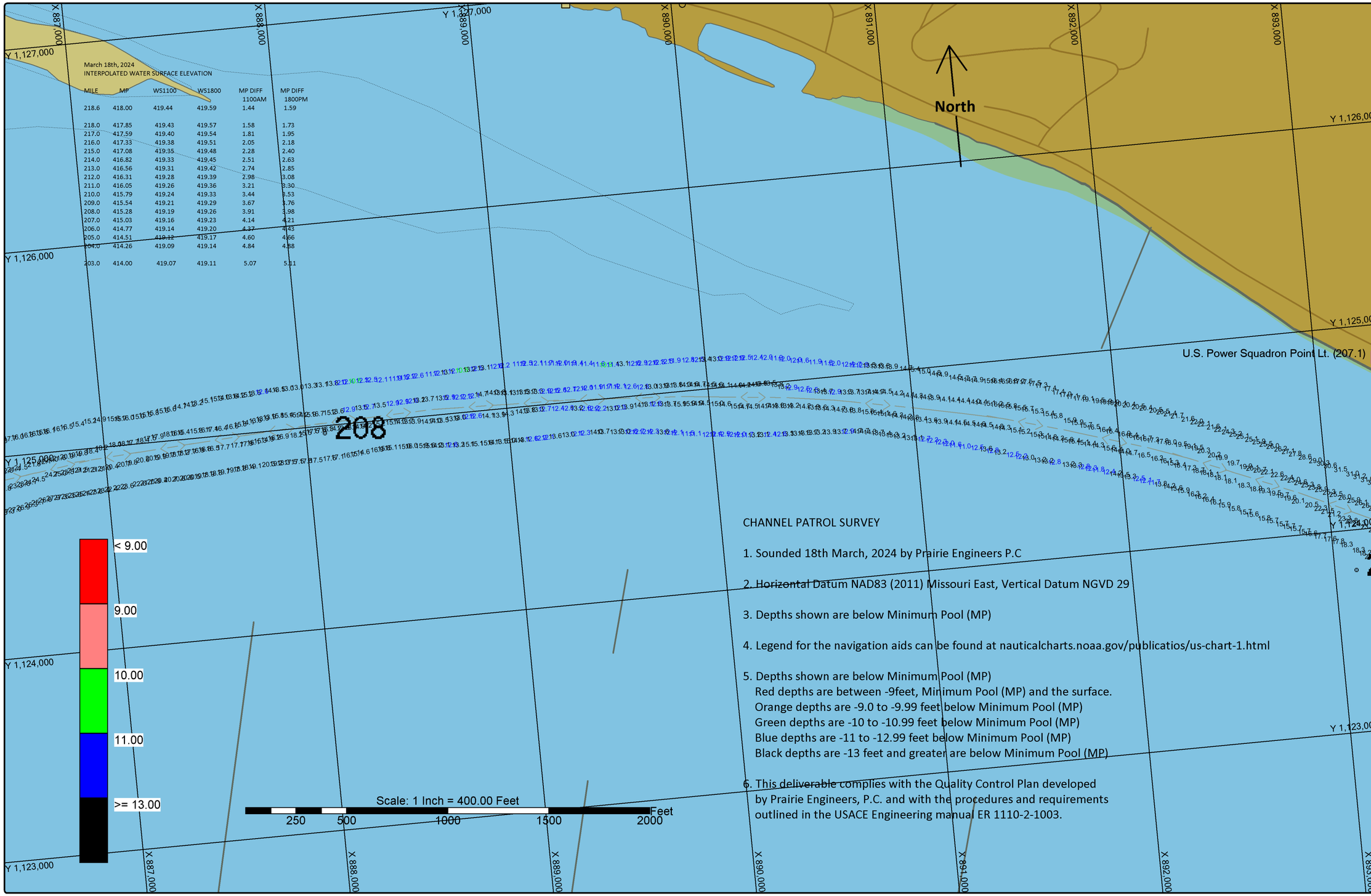
SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 010

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11



CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

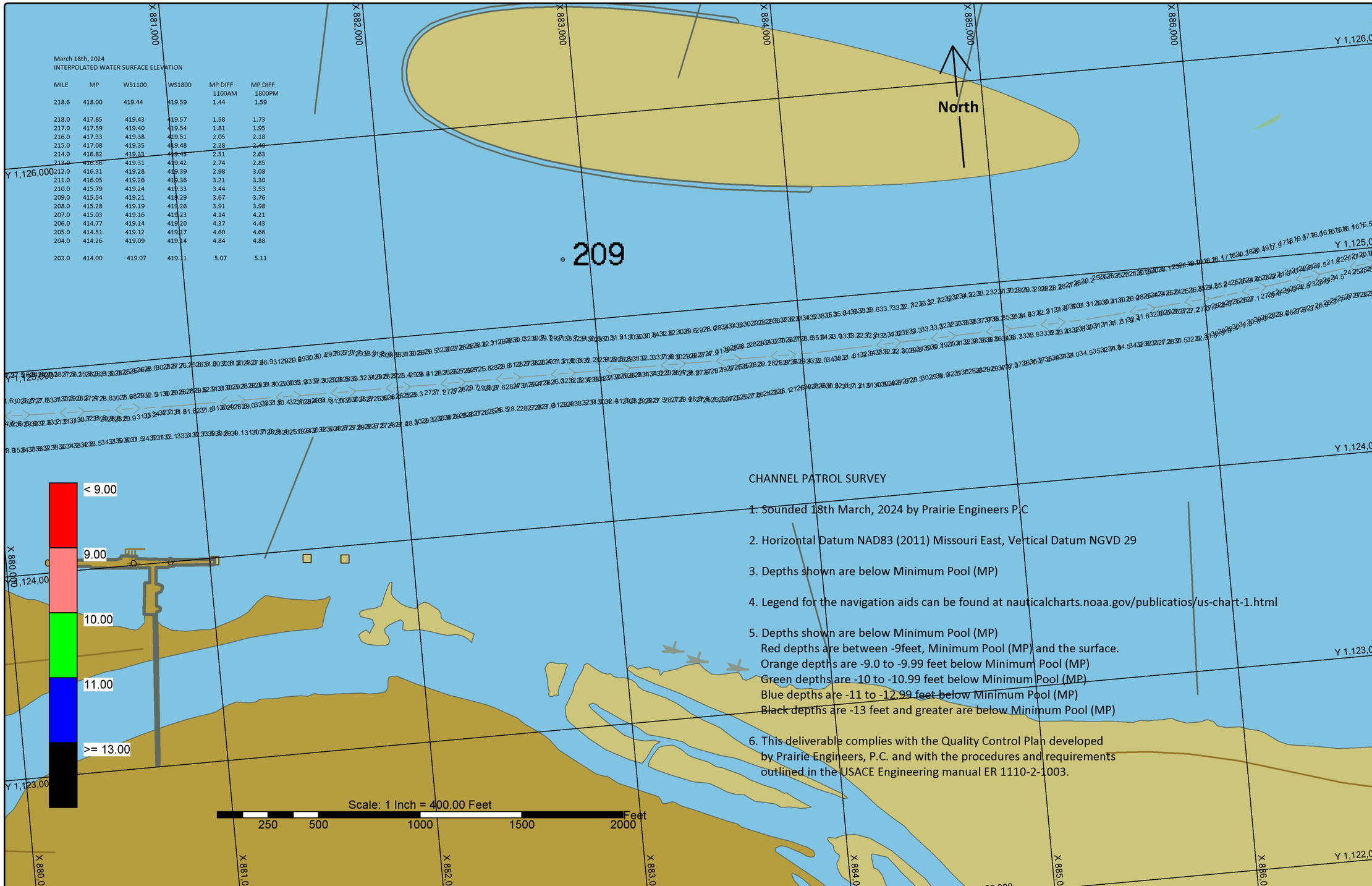
SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 011

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.55	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11



CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH, 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 812

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11

North

210

22g

< 9.00
9.00
10.00
11.00
>= 13.00

CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

Scale: 1 Inch = 400.00 Feet
250 500 1000 1500 2000 Feet

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

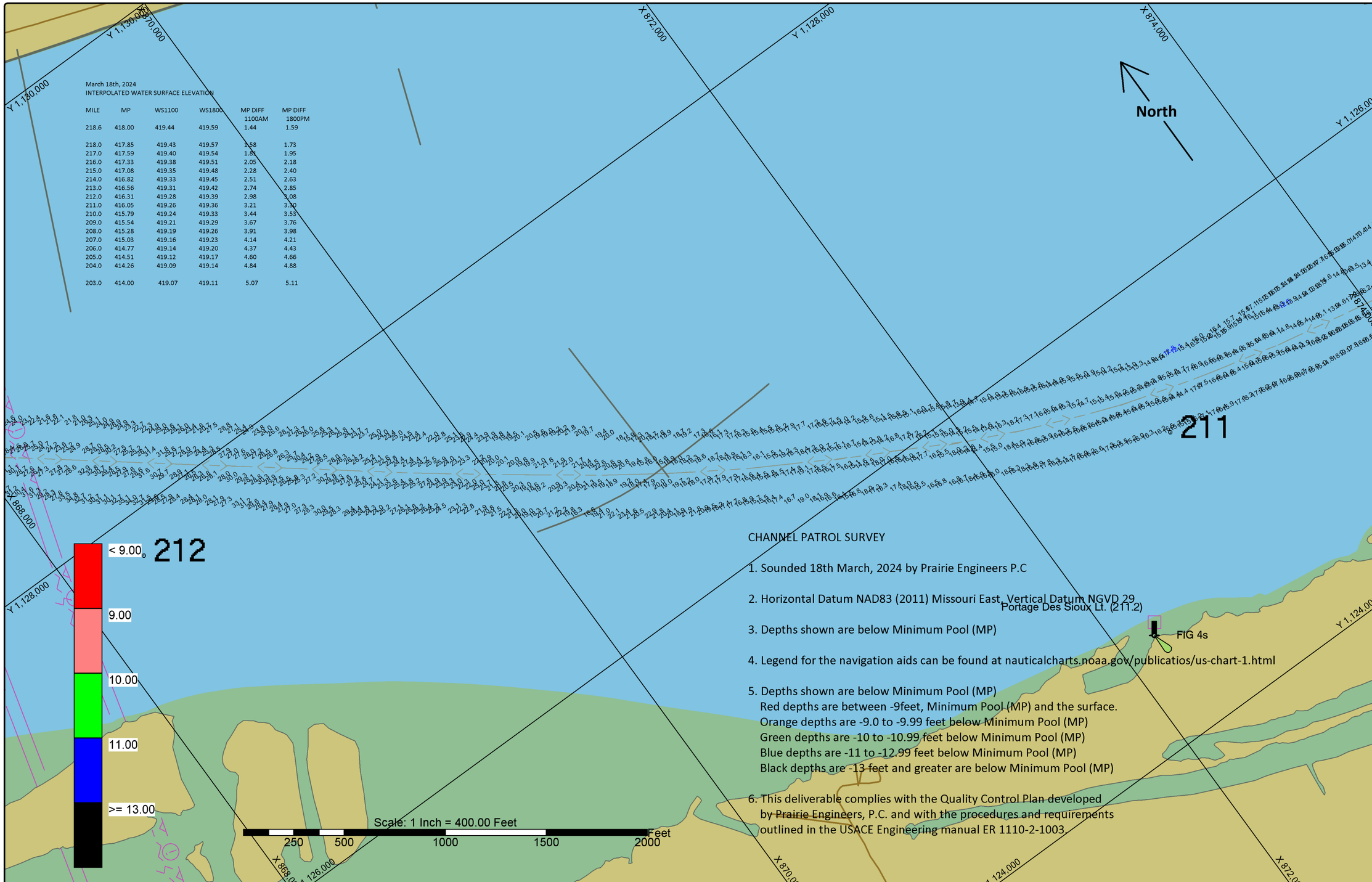
SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 013

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11



CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

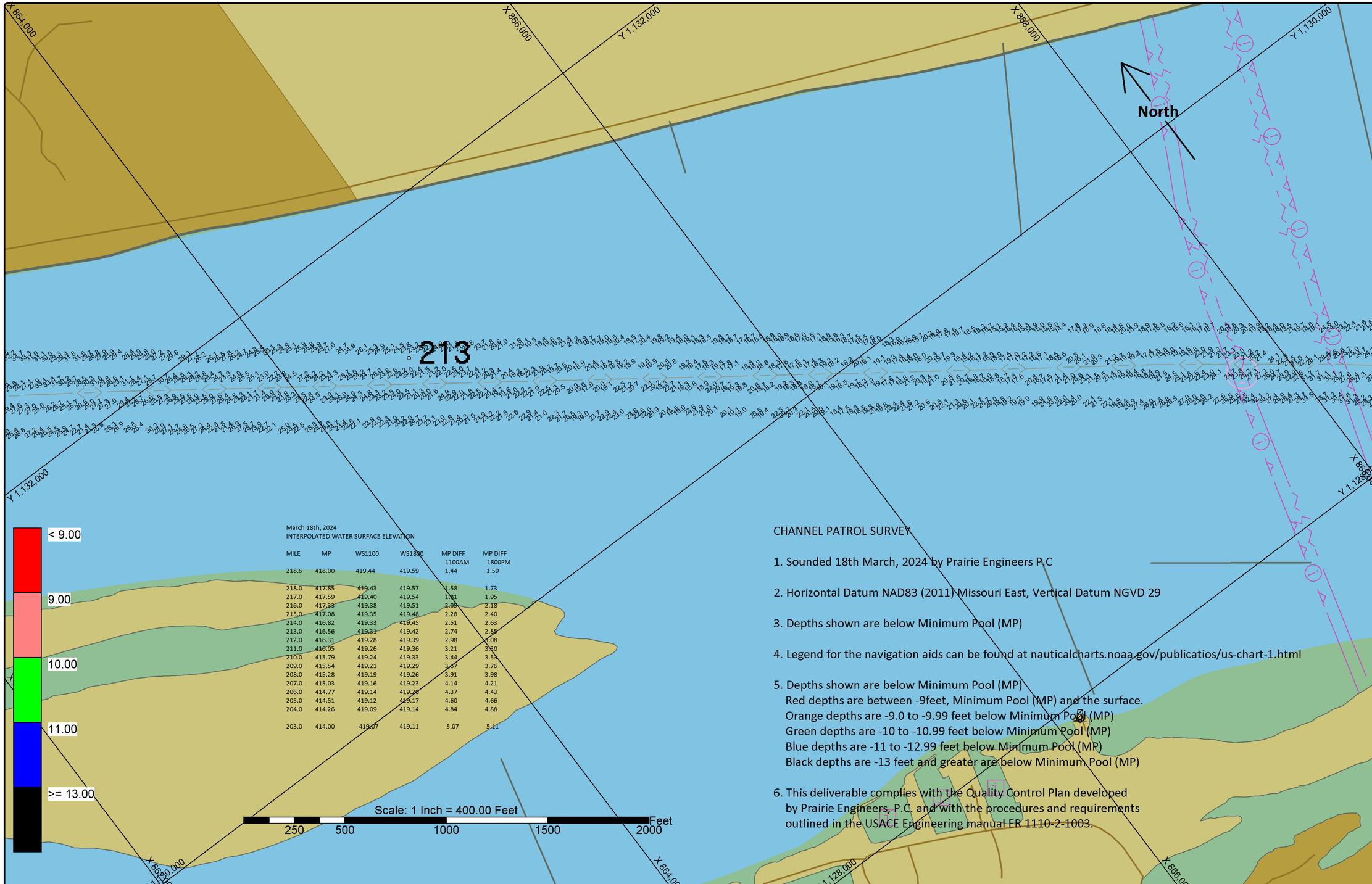
US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 814



March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11

CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 015

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11

X 858,000
Y 1,136,000
X 860,000
X 862,000
Y 1,134,000
X 864,000
Y 1,132,000

North

Elsah Lower Lt. (213.6)
Fl(2)R 5s

214

< 9.00
9.00
10.00
11.00
>= 13.00

Scale: 1 Inch = 400.00 Feet
250 500 1000 1500 2000 Feet

CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 016

CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

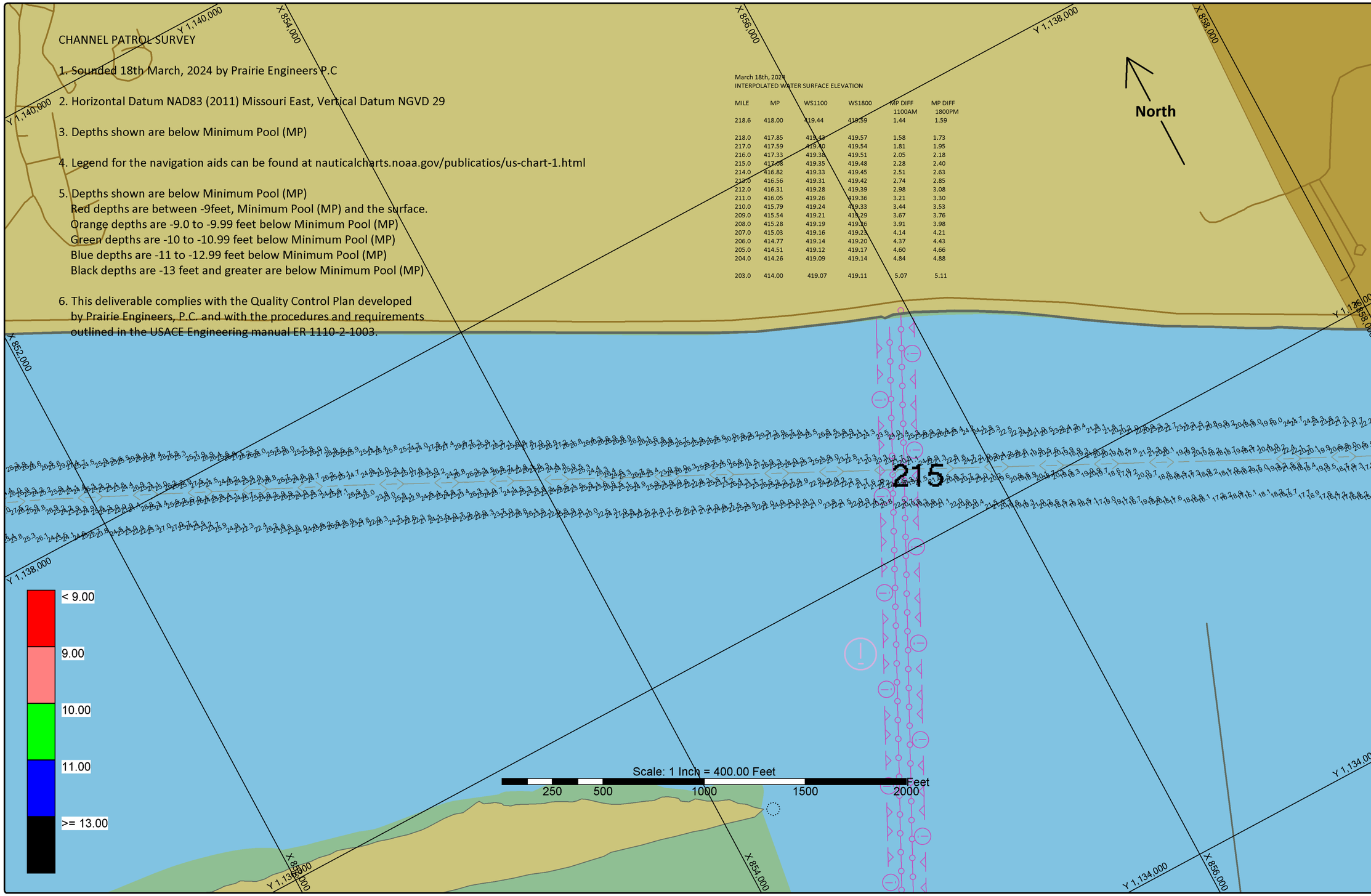
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.42	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.16	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11



ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
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404 N. MAIN STREET
COLUMBIA, IL 62236

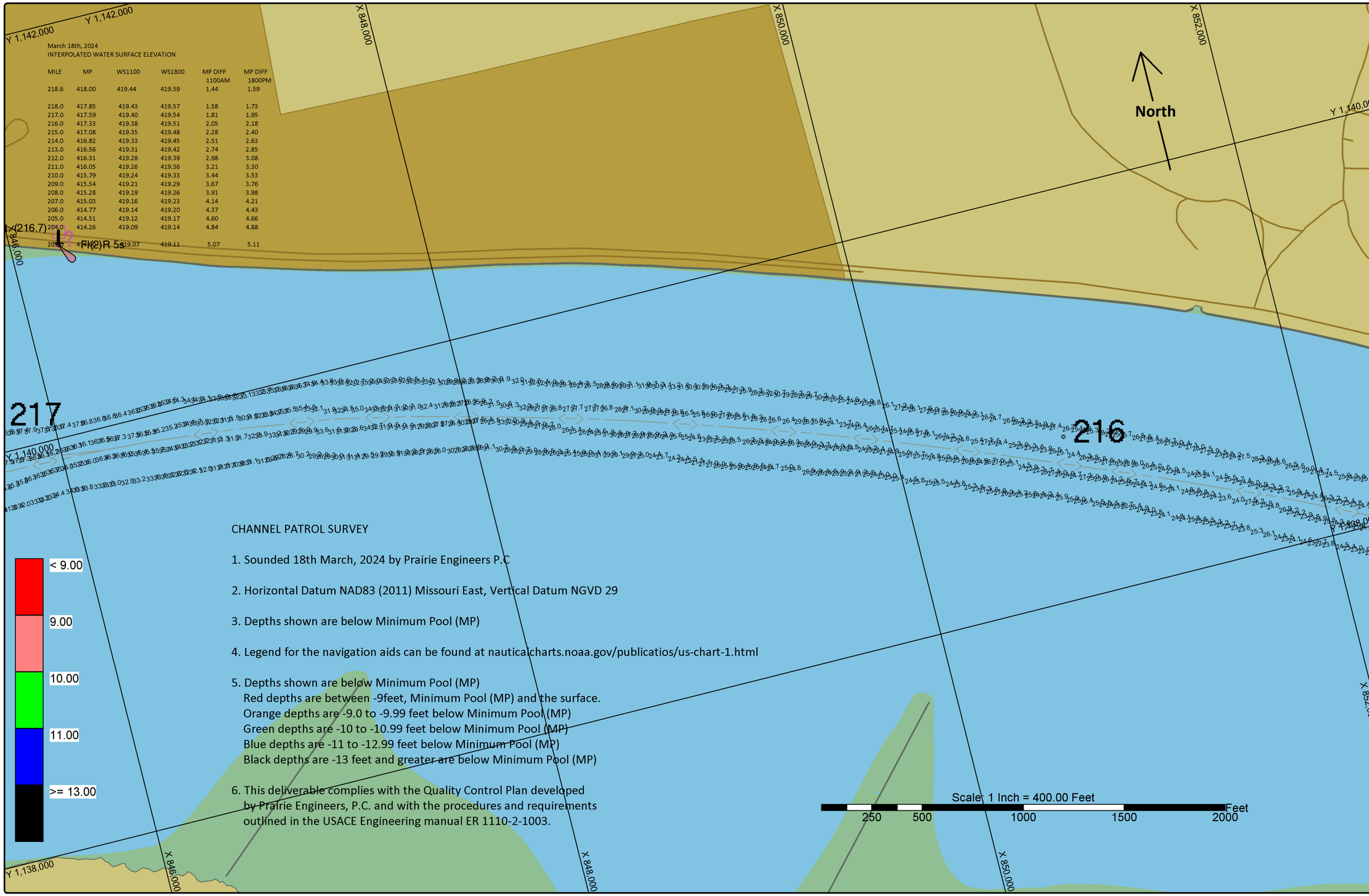
CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 017

March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.36	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.02	419.07	419.11	5.07	5.11



CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html
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   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 018

CHANNEL PATROL SURVEY

1. Sounded 18th March, 2024 by Prairie Engineers P.C

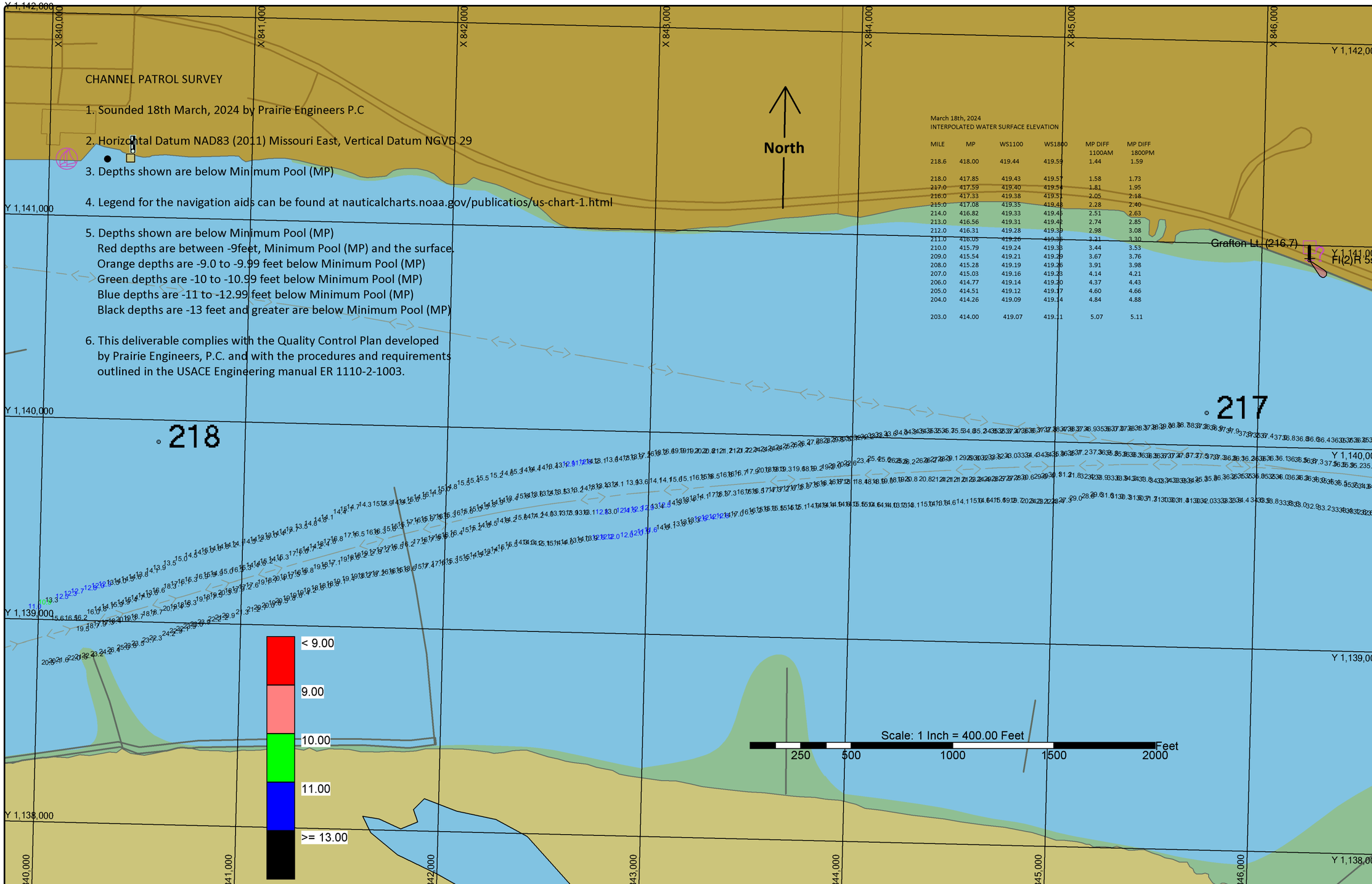
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

3. Depths shown are below Minimum Pool (MP)

4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publicatios/us-chart-1.html

5. Depths shown are below Minimum Pool (MP)
   Red depths are between -9feet, Minimum Pool (MP) and the surface.
   Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
   Green depths are -10 to -10.99 feet below Minimum Pool (MP)
   Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
   Black depths are -13 feet and greater are below Minimum Pool (MP)

6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



March 18th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS1100	WS1800	MP DIFF 1100AM	MP DIFF 1800PM
218.6	418.00	419.44	419.59	1.44	1.59
218.0	417.85	419.43	419.57	1.58	1.73
217.0	417.59	419.40	419.54	1.81	1.95
216.0	417.33	419.38	419.51	2.05	2.18
215.0	417.08	419.35	419.48	2.28	2.40
214.0	416.82	419.33	419.45	2.51	2.63
213.0	416.56	419.31	419.42	2.74	2.85
212.0	416.31	419.28	419.39	2.98	3.08
211.0	416.05	419.26	419.35	3.21	3.30
210.0	415.79	419.24	419.33	3.44	3.53
209.0	415.54	419.21	419.29	3.67	3.76
208.0	415.28	419.19	419.26	3.91	3.98
207.0	415.03	419.16	419.23	4.14	4.21
206.0	414.77	419.14	419.20	4.37	4.43
205.0	414.51	419.12	419.17	4.60	4.66
204.0	414.26	419.09	419.14	4.84	4.88
203.0	414.00	419.07	419.11	5.07	5.11

ST.LOUIS

Gage Records 18th March 2024
Alton gage @ 1100AM = 19.07ft; @ 1800PM = 19.11ft
Grafton gage @ 1100AM = 15.65ft; @ 1800PM = 15.80ft

DATES OF SURVEY: MARCH 18TH 2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

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Date: APRIL 2ND 2024

US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 019