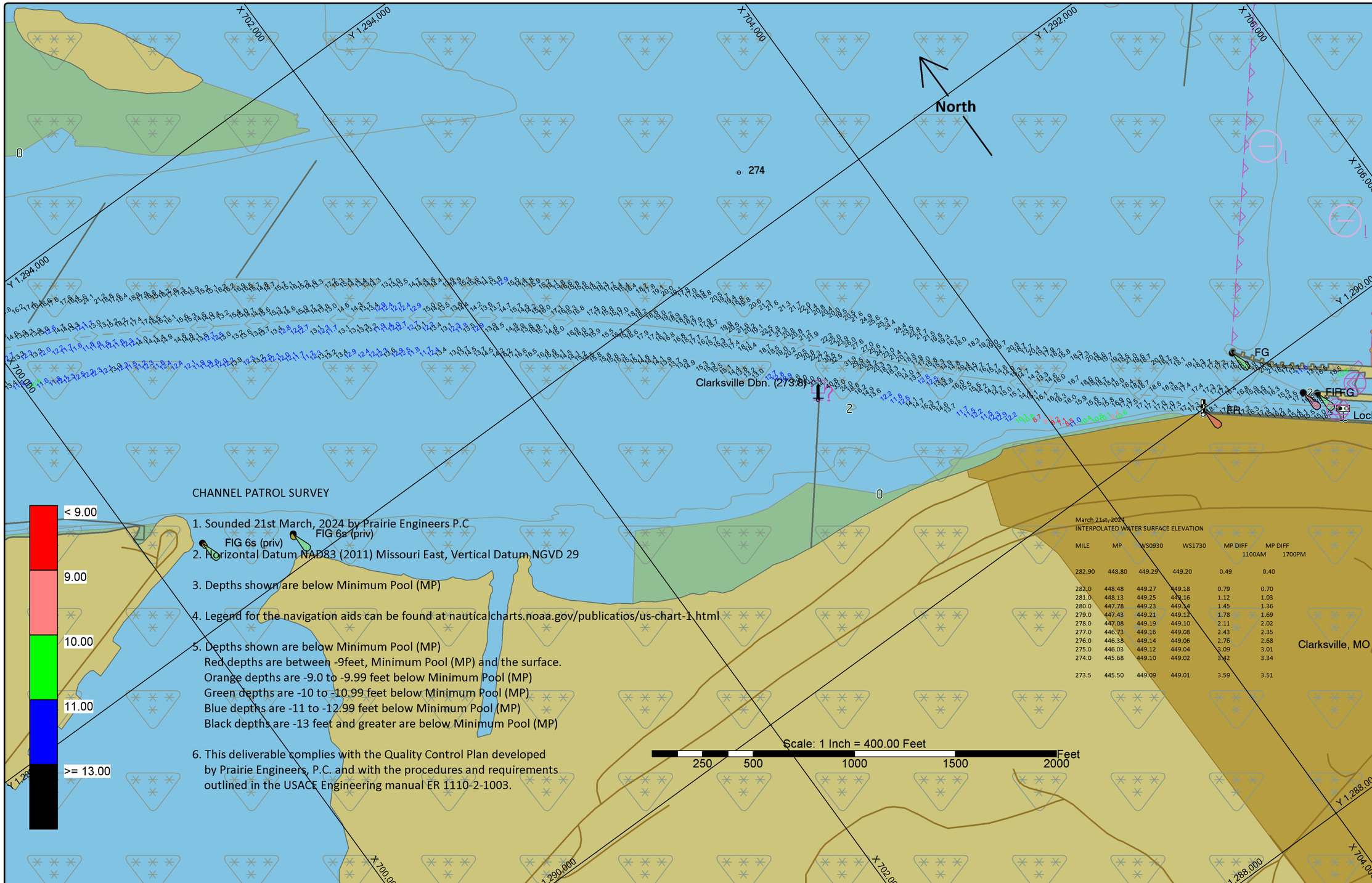


ST.LOUIS

Gage Records 21st March 2024
LD24 (U) gage @ 1100AM = 27.28ft; @1700PM = 27.20ft
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft

DATES OF SURVEY: MARCH 19TH-2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

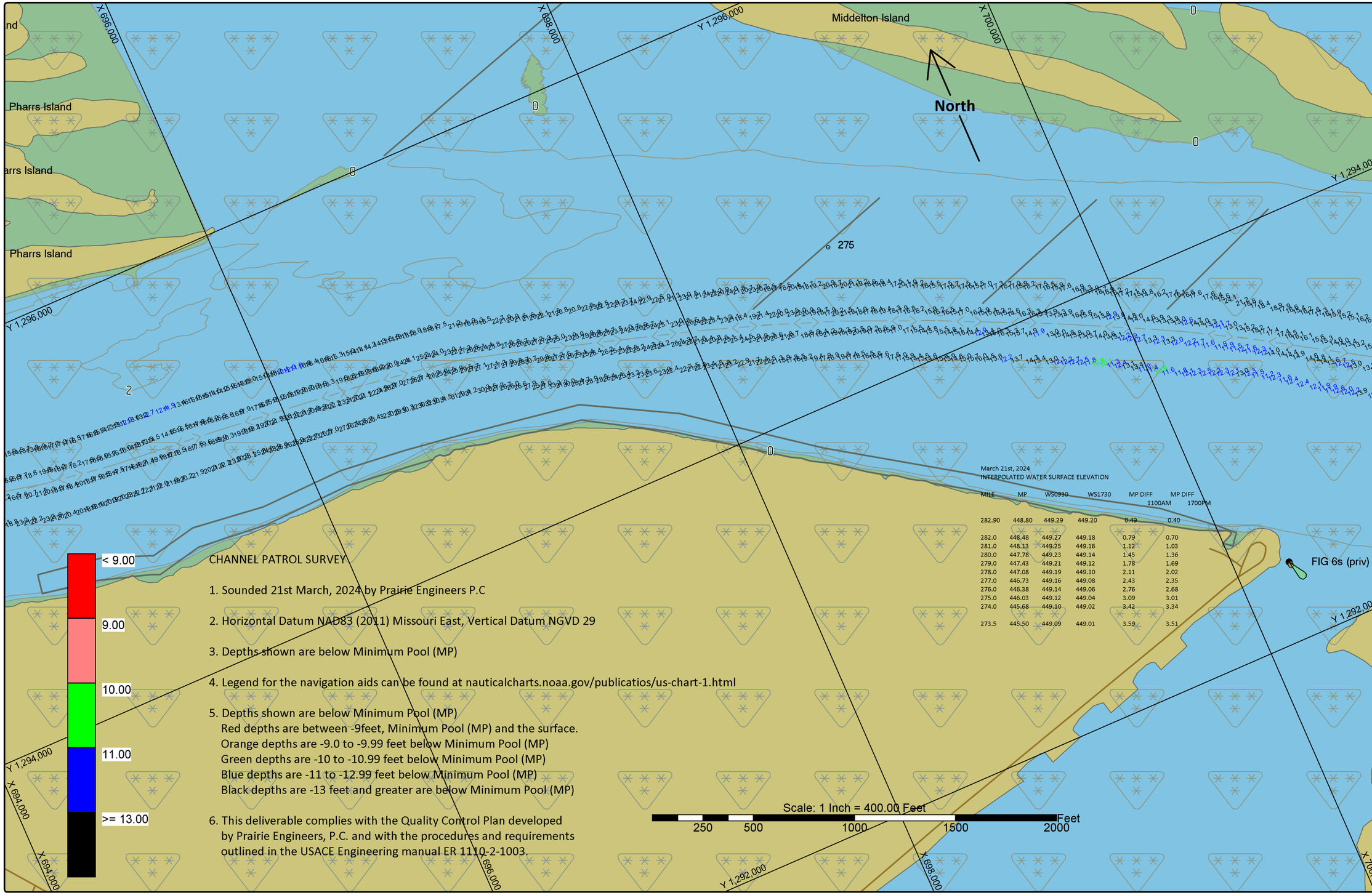
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

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 065



March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0990	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
282.90	448.80	449.29	449.20	0.49	0.40
282.0	448.48	449.27	449.18	0.79	0.70
281.0	448.13	449.25	449.16	1.12	1.03
280.0	447.78	449.23	449.14	1.45	1.36
279.0	447.43	449.21	449.12	1.78	1.69
278.0	447.08	449.19	449.10	2.11	2.02
277.0	446.73	449.16	449.08	2.43	2.35
276.0	446.38	449.14	449.06	2.76	2.68
275.0	446.03	449.12	449.04	3.09	3.01
274.0	445.68	449.10	449.02	3.42	3.34
273.5	445.50	449.09	449.01	3.59	3.51

CHANNEL PATROL SURVEY

1. Sounded 21st 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 21st March 2024
LD24 (U) gage @ 1100AM = 27.28ft; @1700PM = 27.20ft
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft

DATES OF SURVEY: MARCH 19TH-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 8th 2024

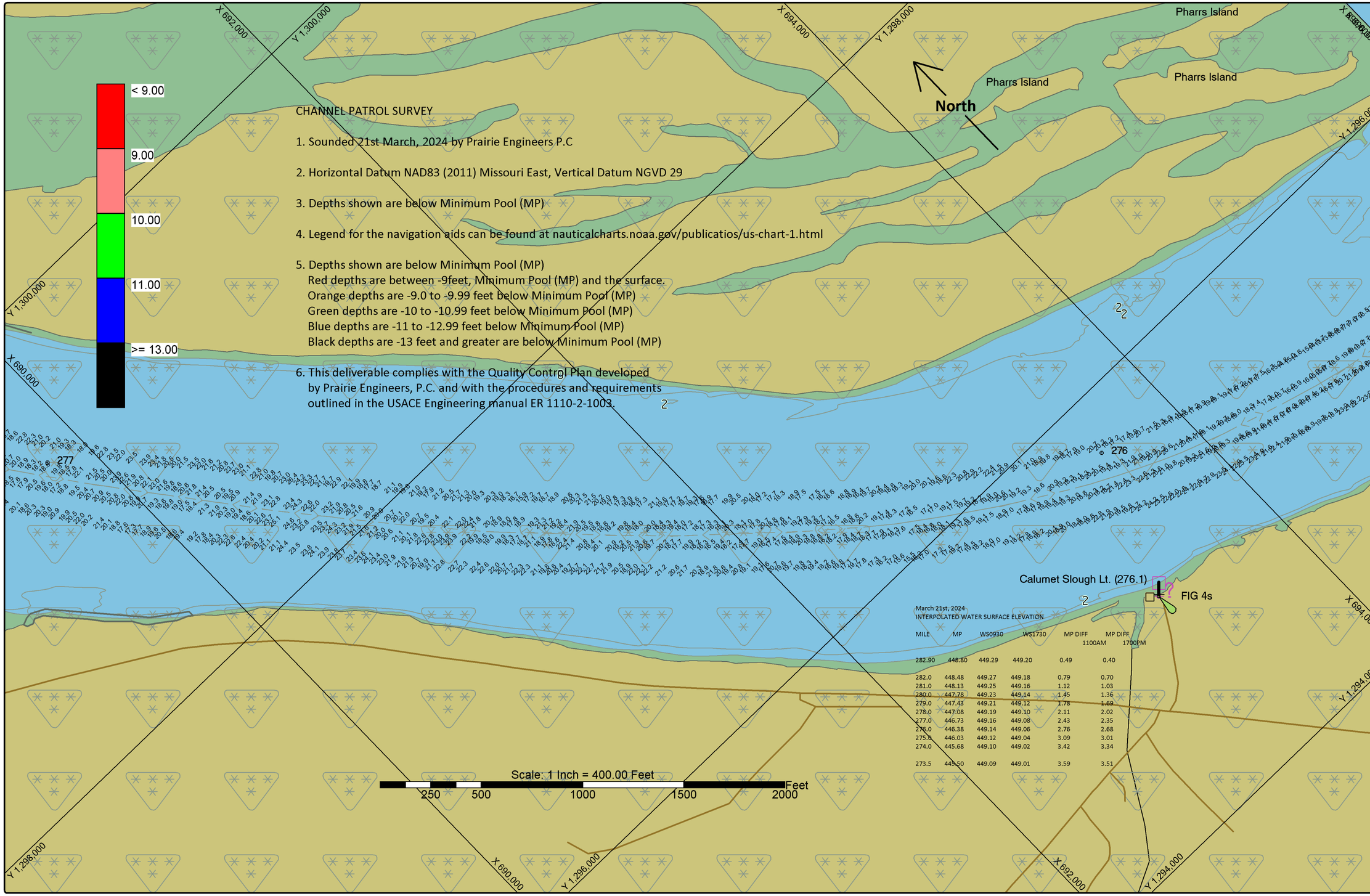
US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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 066



CHANNEL PATROL SURVEY

1. Sounded 21st 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 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
282.90	448.80	449.29	449.20	0.49	0.40
282.0	448.48	449.27	449.18	0.79	0.70
281.0	448.13	449.25	449.16	1.12	1.03
280.0	447.78	449.23	449.14	1.45	1.36
279.0	447.43	449.21	449.12	1.78	1.69
278.0	447.08	449.19	449.10	2.11	2.02
277.0	446.73	449.16	449.08	2.43	2.35
276.0	446.38	449.14	449.06	2.76	2.68
275.0	446.03	449.12	449.04	3.09	3.01
274.0	445.68	449.10	449.02	3.42	3.34
273.5	445.50	449.09	449.01	3.59	3.51

ST.LOUIS

Gage Records 21st March 2024
LD24 (U) gage @ 1100AM = 27.28ft; @1700PM = 27.20ft
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft

DATES OF SURVEY: MARCH 19TH-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 8th 2024

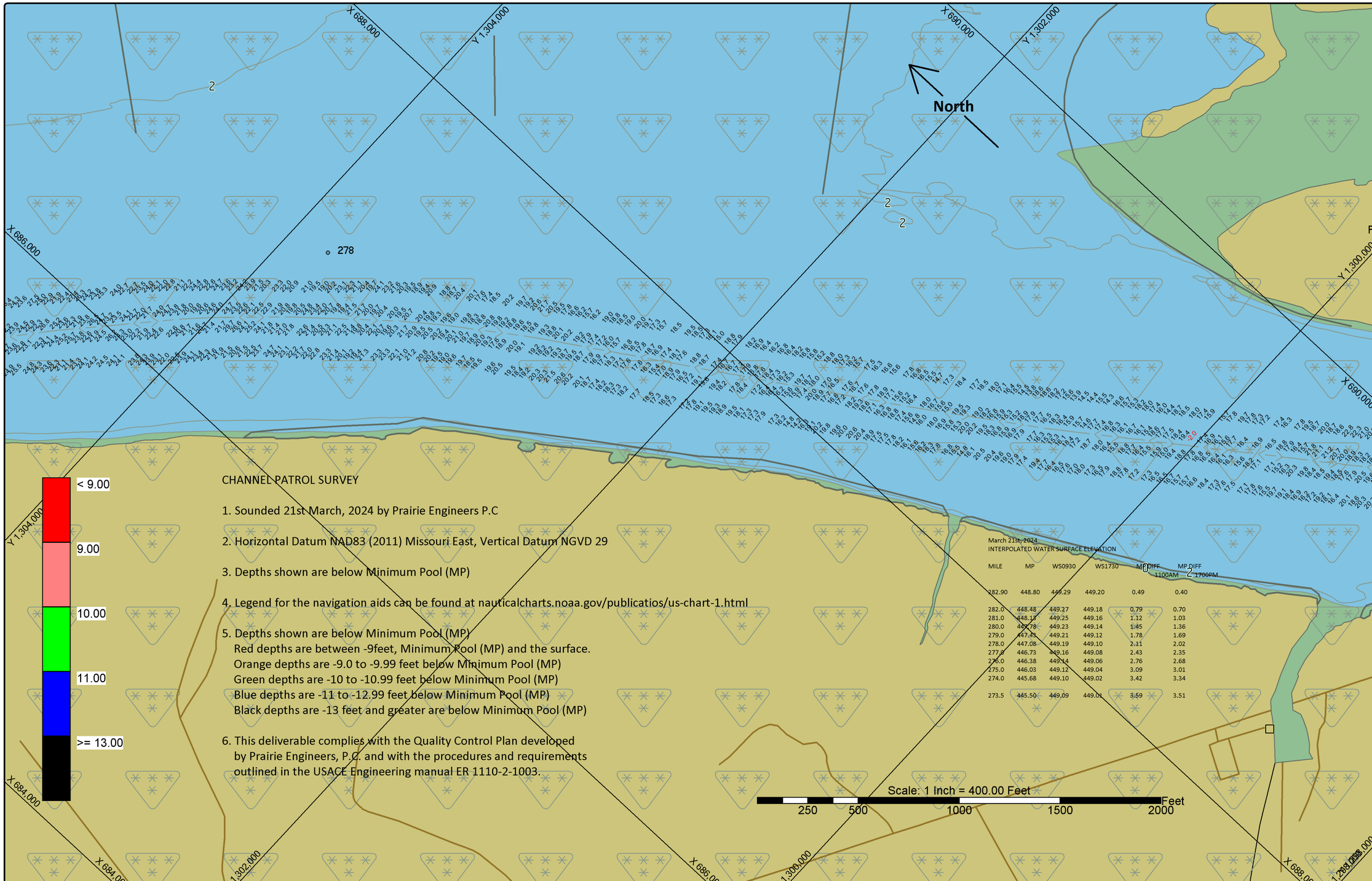
US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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 067



CHANNEL PATROL SURVEY

1. Sounded 21st 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 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
282.90	448.80	449.29	449.20	0.49	0.40
282.0	448.48	449.27	449.18	0.79	0.70
281.0	448.13	449.25	449.16	1.12	1.03
280.0	447.78	449.23	449.14	1.45	1.36
279.0	447.43	449.21	449.12	1.78	1.69
278.0	447.08	449.19	449.10	2.11	2.02
277.0	446.73	449.16	449.08	2.43	2.35
276.0	446.38	449.14	449.06	2.76	2.68
275.0	446.03	449.12	449.04	3.09	3.01
274.0	445.68	449.10	449.02	3.42	3.34
273.5	445.50	449.09	449.01	3.59	3.51

ST.LOUIS

Gage Records 21st March 2024
LD24 (U) gage @ 1100AM = 27.28ft; @1700PM = 27.20ft
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft

DATES OF SURVEY: MARCH 19TH-2024

FILE NO.:
REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

Approved: Abednego Nkem
FIELD CART/DRAFTER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 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 068

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
282.90	448.80	449.29	449.20	0.49	0.40
282.0	448.48	449.27	449.18	0.79	0.70
281.0	448.13	449.25	449.16	1.12	1.03
280.0	447.78	449.23	449.14	1.45	1.36
279.0	447.43	449.21	449.12	1.78	1.69
278.0	447.08	449.19	449.10	2.11	2.02
277.0	446.73	449.16	449.08	2.43	2.35
276.0	446.38	449.14	449.06	2.76	2.68
275.0	446.03	449.12	449.04	3.09	3.01
274.0	445.68	449.10	449.02	3.42	3.34
273.5	445.50	449.09	449.01	3.59	3.51

Crider Island

Crider Bend

Crider Bend Foot Dbn. (278.5)

North

X 682,000 Y 1,308,000 X 684,000 X 686,000 Y 1,306,000 X 680,000 Y 1,304,000

< 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 21st 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 21st March 2024
LD24 (U) gage @ 1100AM = 27.28ft; @1700PM = 27.20ft
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft

DATES OF SURVEY: MARCH 19TH-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 8th 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 069

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
282.90	448.80	449.29	449.20	0.49	0.40
282.0	448.48	449.27	449.18	0.79	0.70
281.0	448.13	449.25	449.16	1.12	1.03
280.0	447.78	449.23	449.14	1.45	1.36
279.0	447.43	449.21	449.12	1.78	1.69
278.0	447.08	449.19	449.10	2.11	2.02
277.0	446.73	449.16	449.08	2.43	2.35
276.0	446.38	449.14	449.06	2.76	2.68
275.0	446.03	449.12	449.04	3.09	3.01
274.0	445.68	449.10	449.02	3.42	3.34
273.5	445.50	449.09	449.01	3.59	3.51

Gosline Island

Crider Island

North

280

Crider Bend Lt. (280.4)

FIG 4s

< 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 21st 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 21st March 2024
LD24 (U) gage @ 1100AM = 27.28ft; @1700PM = 27.20ft
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft

DATES OF SURVEY: MARCH 19TH-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 8th 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 070

CHANNEL PATROL SURVEY

1. Sounded 21st 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.

< 9.00
9.00
10.00
11.00
>= 13.00

North

FIG 6s (priv)

Louisiana, MO

Buffalo Island

Scale; 1 Inch = 400.00 Feet

250 500 1000 1500 2000 Feet

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	WS0930	WS0945	WS1030	MP DIFF 1100AM	MP DIFF 1700PM
283.90	448.80	449.29	449.20	0.49	0.40
282.0	448.48	449.27	449.18	0.79	0.70
281.0	448.13	449.25	449.16	1.12	1.03
280.0	447.78	449.23	449.14	1.45	1.36
279.0	447.43	449.21	449.12	1.78	1.69
278.0	447.08	449.19	449.10	2.11	2.02
277.0	446.73	449.16	449.08	2.43	2.35
276.0	446.38	449.14	449.06	2.76	2.68
275.0	446.03	449.12	449.04	3.09	3.01
274.0	445.68	449.10	449.02	3.42	3.34
273.5	445.50	449.09	449.01	3.59	3.51

ST.LOUIS

Gage Records 21st March 2024
LD24 (U) gage @ 1100AM = 27.28ft; @1700PM = 27.20ft
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft

DATES OF SURVEY: MARCH 19TH-22ND 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 8th 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 071

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
282.90	448.80	449.29	449.20	0.49	0.40
282.0	448.48	449.27	449.18	0.79	0.70
281.0	448.13	449.25	449.16	1.12	1.03
280.0	447.78	449.23	449.14	1.45	1.36
279.0	447.43	449.21	449.12	1.78	1.69
278.0	447.08	449.19	449.10	2.11	2.02
277.0	446.73	449.16	449.08	2.43	2.35
276.0	446.38	449.14	449.06	2.76	2.68
275.0	446.03	449.12	449.04	3.09	3.01
274.0	445.68	449.10	449.02	3.42	3.34
273.5	445.50	449.09	449.01	3.59	3.51

CHANNEL PATROL SURVEY

1. Sounded 21st 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.

< 9.00
9.00
10.00
11.00
>= 13.00

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

ST.LOUIS

Gage Records 21st March 2024
LD24 (U) gage @ 1100AM = 27.28ft; @1700PM = 27.20ft
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft

DATES OF SURVEY: MARCH 19TH-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 8th 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 872

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
294.00	449.00	450.05	450.05	1.05	1.05
293.00	448.98	449.98	449.97	1.00	0.99
292.00	448.96	449.91	449.90	0.95	0.93
291.00	448.95	449.84	449.82	0.90	0.87
290.00	448.93	449.78	449.74	0.85	0.82
289.00	448.91	449.71	449.67	0.80	0.76
288.00	448.89	449.64	449.59	0.75	0.70
287.00	448.87	449.57	449.51	0.70	0.64
286.00	448.86	449.50	449.44	0.65	0.58
285.00	448.84	449.43	449.36	0.60	0.52
284.00	448.82	449.37	449.28	0.55	0.46
283.00	448.80	449.30	449.21	0.50	0.41
282.90	448.80	449.29	449.20	0.49	0.40

< 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 21st 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.

North
Louisiana, MO
Quarry Ldg
Kburn Island Dbn. (284.4)

ST.LOUIS

Gage Records 21st March 2024
Louisianna gage @ 1100AM = 11.98ft; @1700PM = 11.87ft
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft

DATES OF SURVEY: MARCH 19TH-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 8th 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 873

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
294.00	449.00	450.05	450.05	1.05	1.05
293.00	448.98	449.98	449.97	1.00	0.99
292.00	448.96	449.91	449.90	0.95	0.93
291.00	448.95	449.84	449.82	0.90	0.87
290.00	448.93	449.78	449.74	0.85	0.82
289.00	448.91	449.71	449.67	0.80	0.76
288.00	448.89	449.64	449.59	0.75	0.70
287.00	448.87	449.57	449.53	0.70	0.64
286.00	448.86	449.50	449.44	0.65	0.58
285.00	448.84	449.43	449.36	0.59	0.52
284.00	448.82	449.37	449.28	0.55	0.46
283.00	448.80	449.30	449.21	0.50	0.41
282.90	448.80	449.29	449.20	0.49	0.40

< 9.00
9.00
10.00
11.00
>= 13.00

Hickory Chute Lower Lt (285.5)
Fl(2)R 5s
285
North
Angle Island

CHANNEL PATROL SURVEY

1. Sounded 21st 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.

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

X 660,000 Y 1,332,000 Y 1,330,000 Y 1,328,000 Y 1,326,000 X 664,000 X 662,000

ST.LOUIS

Gage Records 21st March 2024
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft

DATES OF SURVEY: MARCH 19TH-2024
FILE NO.: REQUEST NO.:
SCALE: ONE INCH = 400 FEET
FIELD BOOKS:

Approved: Abednego Nkem, FIELD CART/DRAFTER
Approved: Tom Frerichs, CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer, ASST. CHIEF OF SURVEY
Approved: Tristan Harper, CHIEF OF SURVEY
Date: APRIL 8th 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 874

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

Ducher Is/ South Fritz Is

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
294.00	449.00	450.05	450.05	1.05	1.05
293.00	448.98	449.98	449.97	1.00	0.99
292.00	448.96	449.91	449.90	0.95	0.93
291.00	448.95	449.84	449.82	0.90	0.87
290.00	448.93	449.78	449.74	0.85	0.82
289.00	448.91	449.71	449.67	0.80	0.76
288.00	448.89	449.64	449.59	0.75	0.70
287.00	448.87	449.57	449.51	0.70	0.64
286.00	448.86	449.50	449.44	0.65	0.58
285.00	448.84	449.43	449.36	0.60	0.52
284.00	448.82	449.37	449.28	0.55	0.46
283.00	448.80	449.30	449.21	0.50	0.41
282.90	448.80	449.29	449.20	0.49	0.40

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 21st 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 21st March 2024
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft

DATES OF SURVEY: MARCH 15TH-21ST 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 8th 2024

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

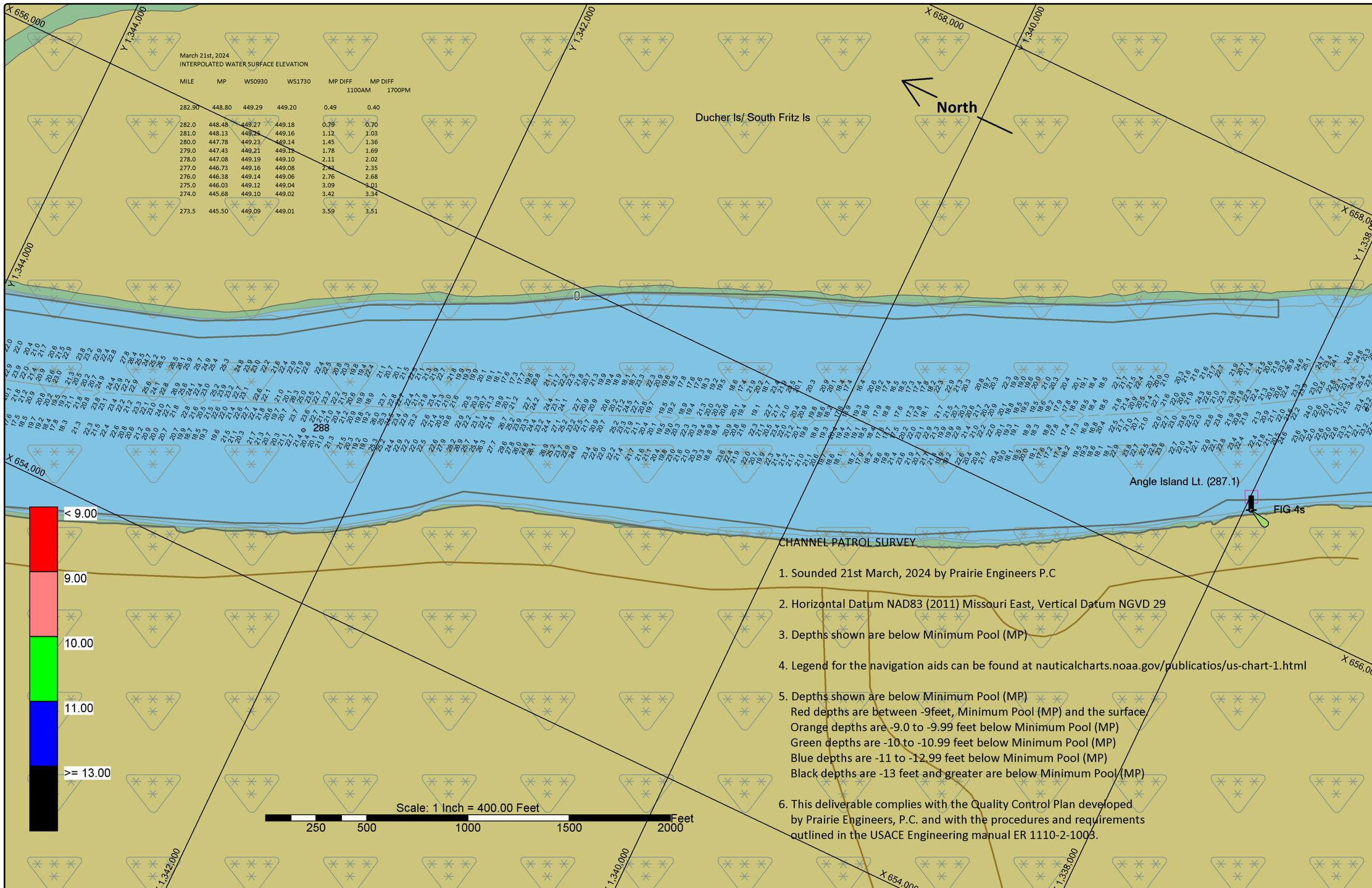
SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

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

SHEET 075

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
282.90	448.80	449.29	449.20	0.49	0.40
282.0	448.48	449.27	449.18	0.79	0.70
281.0	448.13	449.25	449.16	1.12	1.03
280.0	447.78	449.23	449.14	1.45	1.36
279.0	447.43	449.21	449.12	1.78	1.69
278.0	447.08	449.19	449.10	2.11	2.02
277.0	446.73	449.16	449.08	2.43	2.35
276.0	446.38	449.14	449.06	2.76	2.68
275.0	446.03	449.12	449.04	3.09	3.01
274.0	445.68	449.10	449.02	3.42	3.34
273.5	445.50	449.09	449.01	3.59	3.51



CHANNEL PATROL SURVEY

1. Sounded 21st 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 21st March 2024
LD24 (U) gage @ 1100AM = 27.28ft; @1700PM = 27.20ft
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft

DATES OF SURVEY: MARCH 19TH-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 8th 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 076

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
294.00	449.00	450.05	450.05	1.05	1.05
293.00	448.98	449.98	449.97	1.00	0.99
292.00	448.96	449.91	449.90	0.95	0.93
291.00	448.95	449.84	449.82	0.90	0.87
290.00	448.93	449.78	449.74	0.85	0.82
289.00	448.91	449.71	449.67	0.80	0.76
288.00	448.89	449.64	449.59	0.75	0.70
287.00	448.87	449.57	449.51	0.70	0.64
286.00	448.86	449.50	449.44	0.65	0.58
285.00	448.84	449.43	449.36	0.60	0.52
284.00	448.82	449.37	449.28	0.55	0.46
283.00	448.80	449.30	449.21	0.50	0.41
282.00	448.80	449.29	449.20	0.49	0.40

North Fritz Island

North

Ducher Is/ Sc

North Fritz Island Head Lt. (289.0)

Fl(2)R 5s

289

< 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 21st 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 21st March 2024
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft

DATES OF SURVEY: MARCH 19TH-20TH

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 8th 2024

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

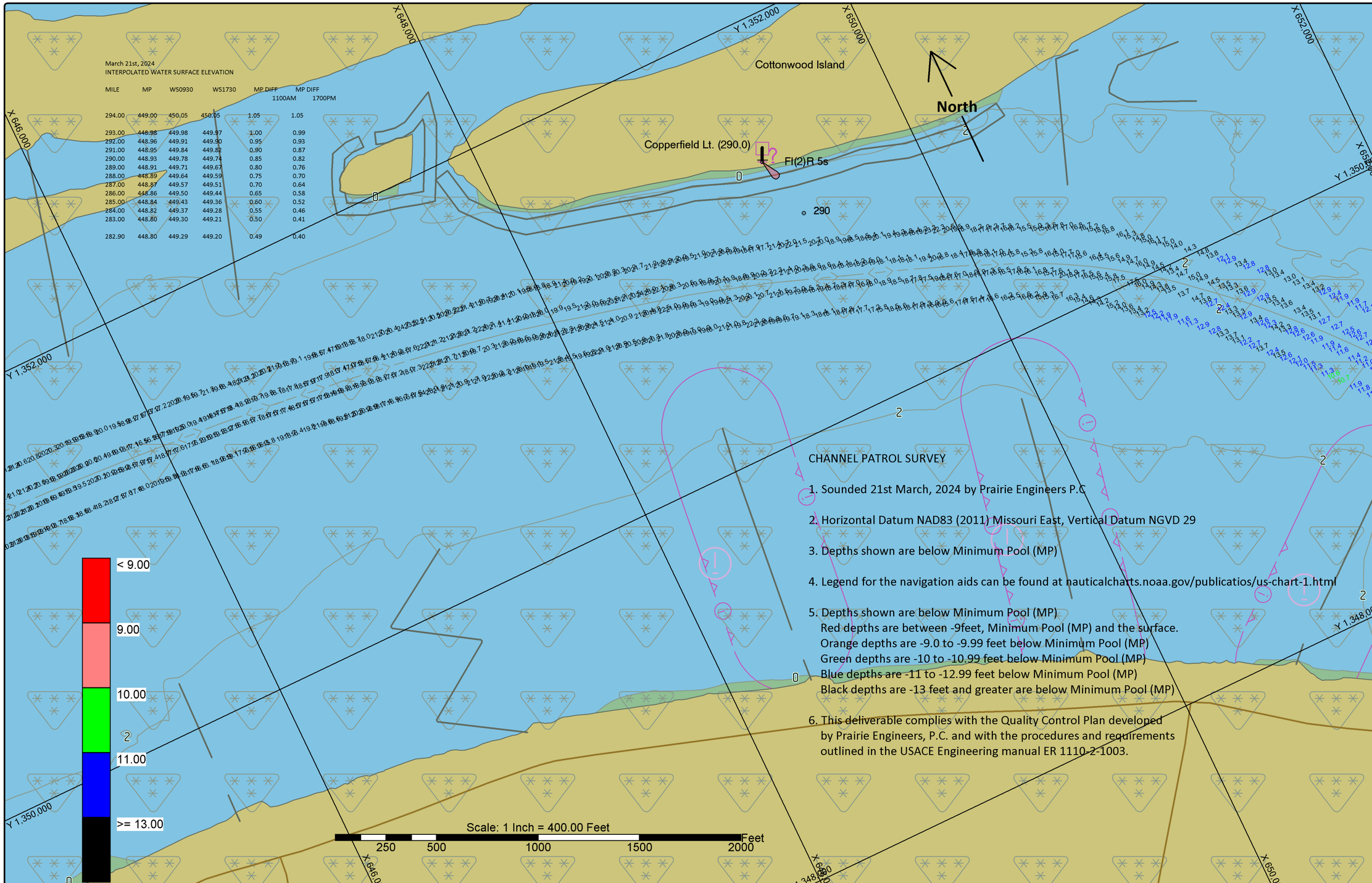
SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

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

SHEET 677

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
294.00	449.00	450.05	450.05	1.05	1.05
293.00	448.98	449.98	449.97	1.00	0.99
292.00	448.96	449.91	449.90	0.95	0.93
291.00	448.95	449.84	449.82	0.90	0.87
290.00	448.93	449.78	449.74	0.85	0.82
289.00	448.91	449.71	449.67	0.80	0.76
288.00	448.89	449.64	449.59	0.75	0.70
287.00	448.87	449.57	449.51	0.70	0.64
286.00	448.86	449.50	449.44	0.65	0.58
285.00	448.84	449.43	449.36	0.60	0.52
284.00	448.82	449.37	449.28	0.55	0.46
283.00	448.80	449.30	449.21	0.50	0.41
282.90	448.80	449.29	449.20	0.49	0.40



CHANNEL PATROL SURVEY

1. Sounded 21st 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 21st March 2024
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft

DATES OF SURVEY: MARCH 19TH-20TH 2024

FILE NO.: REQUEST NO.:

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

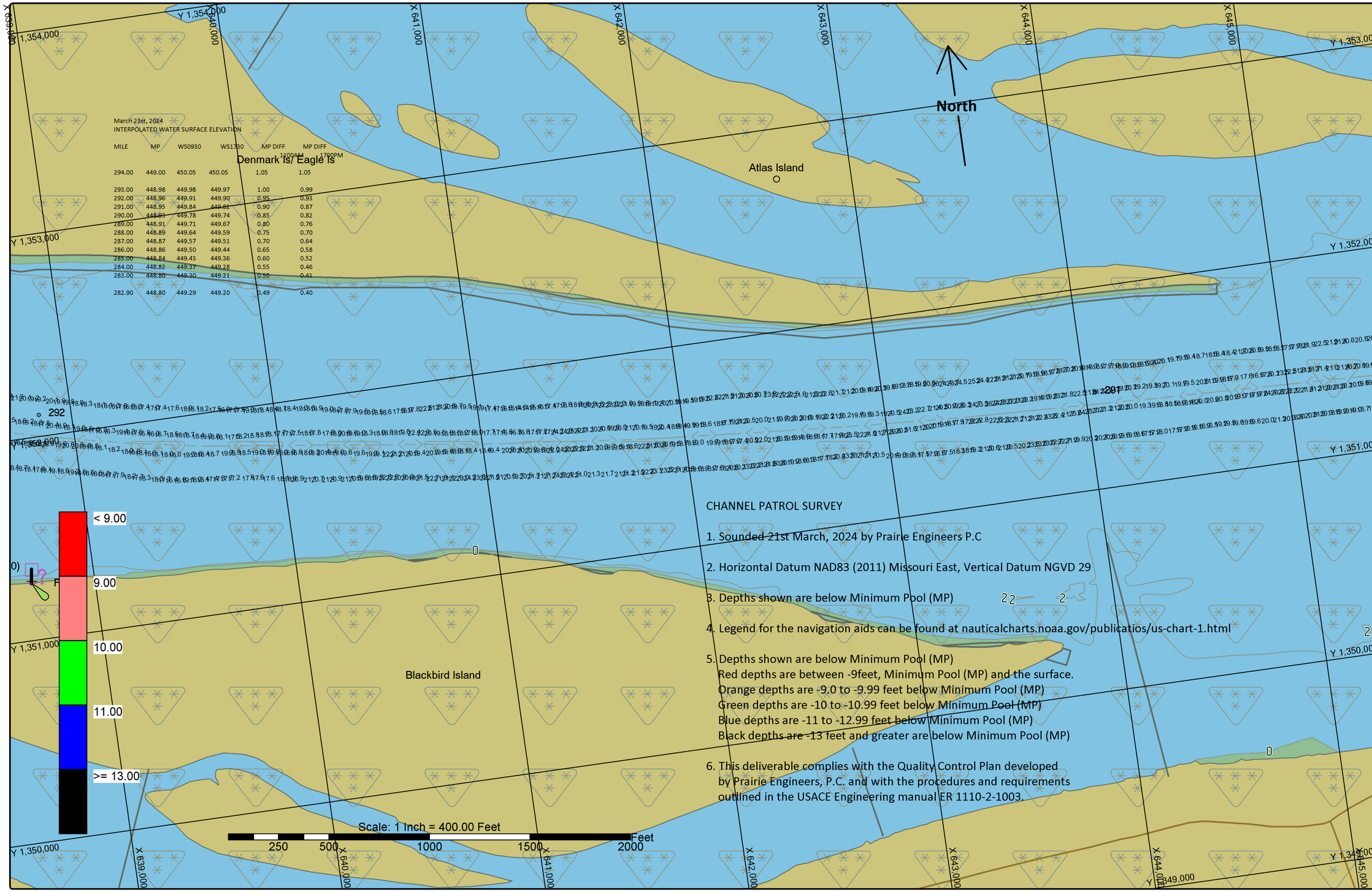
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

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 678



March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
294.00	449.00	450.05	450.05	1.05	1.05
293.00	448.98	449.98	449.97	1.00	0.99
292.00	448.96	449.91	449.90	0.95	0.93
291.00	448.95	449.84	449.82	0.90	0.87
290.00	448.93	449.78	449.74	0.85	0.82
289.00	448.91	449.71	449.67	0.80	0.76
288.00	448.89	449.64	449.59	0.75	0.70
287.00	448.87	449.57	449.51	0.70	0.64
286.00	448.86	449.50	449.44	0.65	0.58
285.00	448.84	449.43	449.36	0.60	0.52
284.00	448.82	449.37	449.28	0.55	0.46
283.00	448.80	449.30	449.21	0.50	0.41
282.90	448.80	449.29	449.20	0.49	0.40

CHANNEL PATROL SURVEY

1. Sounded 21st 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 21st March 2024
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft

DATES OF SURVEY: MARCH 19TH-21ST, 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 8th 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 679

CHANNEL PATROL SURVEY

1. Sounded 21st March, 2024 by Prairie Engineers P.C

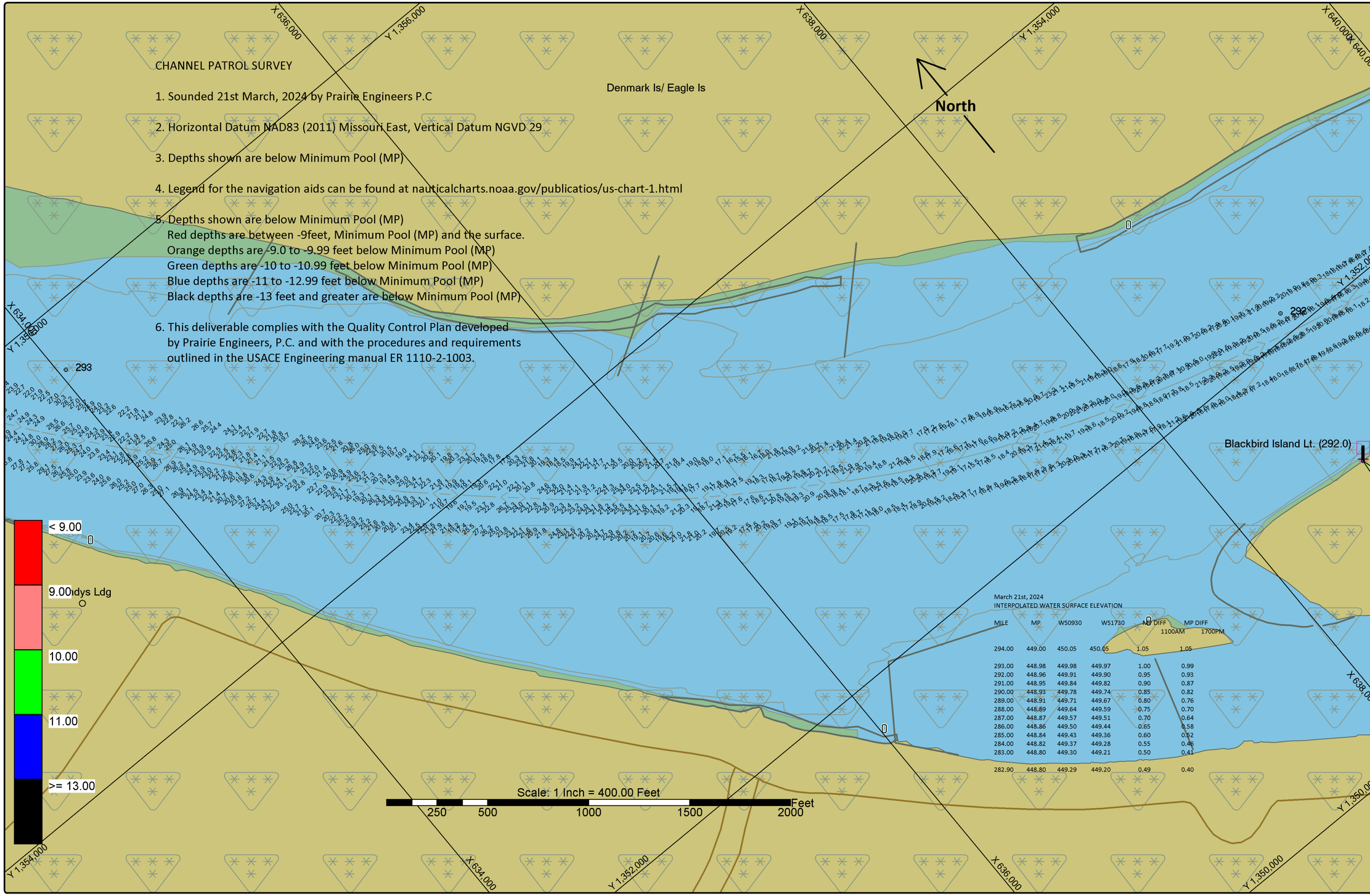
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

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 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
294.00	449.00	450.05	450.05	1.05	1.05
293.00	448.98	449.98	449.97	1.00	0.99
292.00	448.96	449.91	449.90	0.95	0.93
291.00	448.95	449.84	449.82	0.90	0.87
290.00	448.93	449.78	449.74	0.85	0.82
289.00	448.91	449.71	449.67	0.80	0.76
288.00	448.89	449.64	449.59	0.75	0.70
287.00	448.87	449.57	449.51	0.70	0.64
286.00	448.86	449.50	449.44	0.65	0.58
285.00	448.84	449.43	449.36	0.60	0.52
284.00	448.82	449.37	449.28	0.55	0.46
283.00	448.80	449.30	449.21	0.50	0.41
282.90	448.80	449.29	449.20	0.49	0.40

ST.LOUIS

Gage Records 21st March 2024
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft

DATES OF SURVEY: MARCH 19TH-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 8th 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 000

CHANNEL PATROL SURVEY

1. Sounded 21st March, 2024 by Prairie Engineers P.C

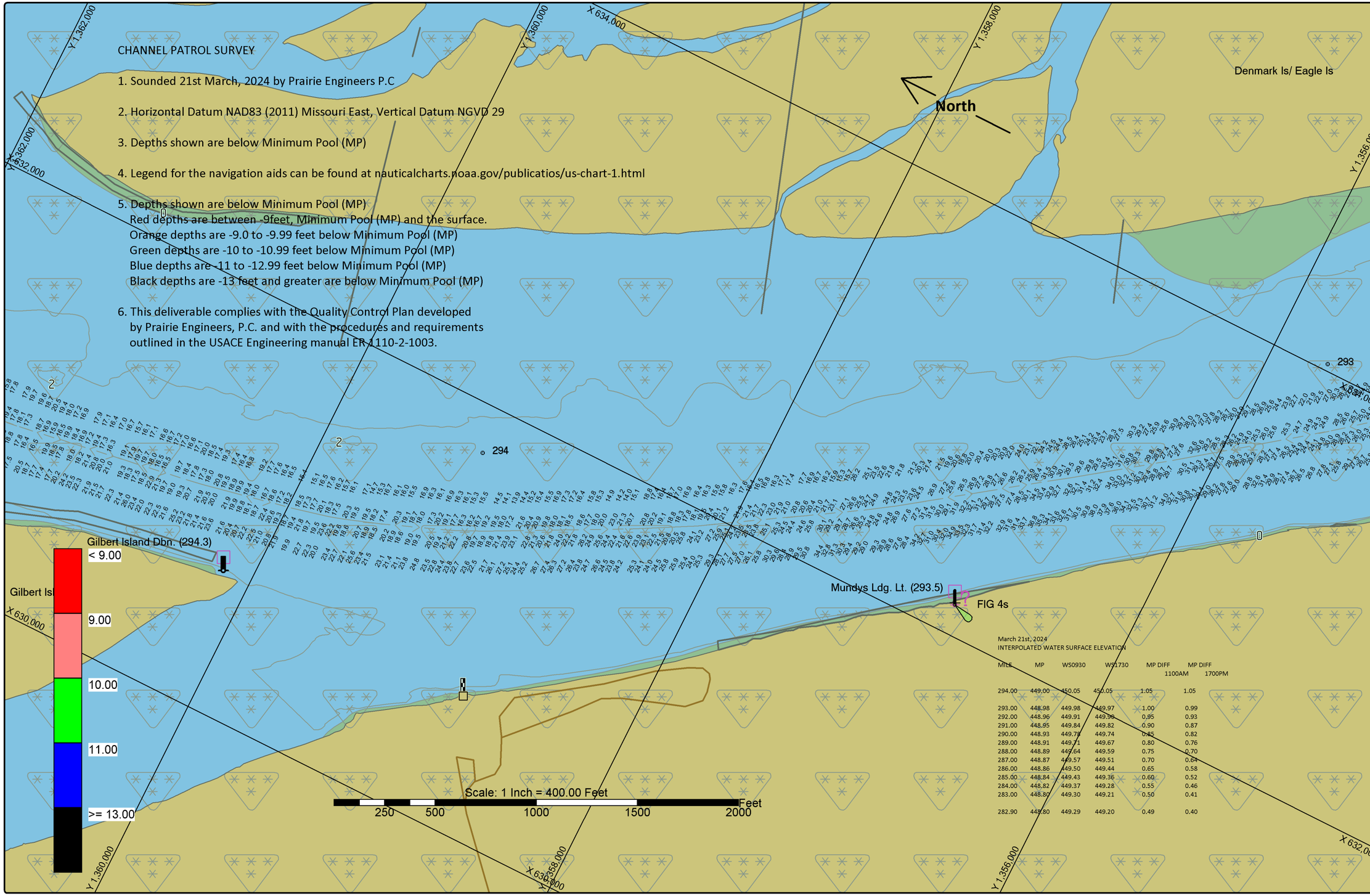
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29

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 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
294.00	449.00	450.05	450.05	1.05	1.05
293.00	448.98	449.98	449.97	1.00	0.99
292.00	448.96	449.91	449.90	0.95	0.93
291.00	448.95	449.84	449.82	0.90	0.87
290.00	448.93	449.78	449.74	0.85	0.82
289.00	448.91	449.71	449.67	0.80	0.76
288.00	448.89	449.64	449.59	0.75	0.70
287.00	448.87	449.57	449.51	0.70	0.64
286.00	448.86	449.50	449.44	0.65	0.58
285.00	448.84	449.43	449.36	0.60	0.52
284.00	448.82	449.37	449.28	0.55	0.46
283.00	448.80	449.30	449.21	0.50	0.41
282.90	449.80	449.29	449.20	0.49	0.40

ST.LOUIS

Gage Records 21st March 2024
Louisianna gage @ 1100AM = 11.96ft; @1700PM = 11.87ft
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft

DATES OF SURVEY: MARCH 19TH-20TH

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 8th 2024

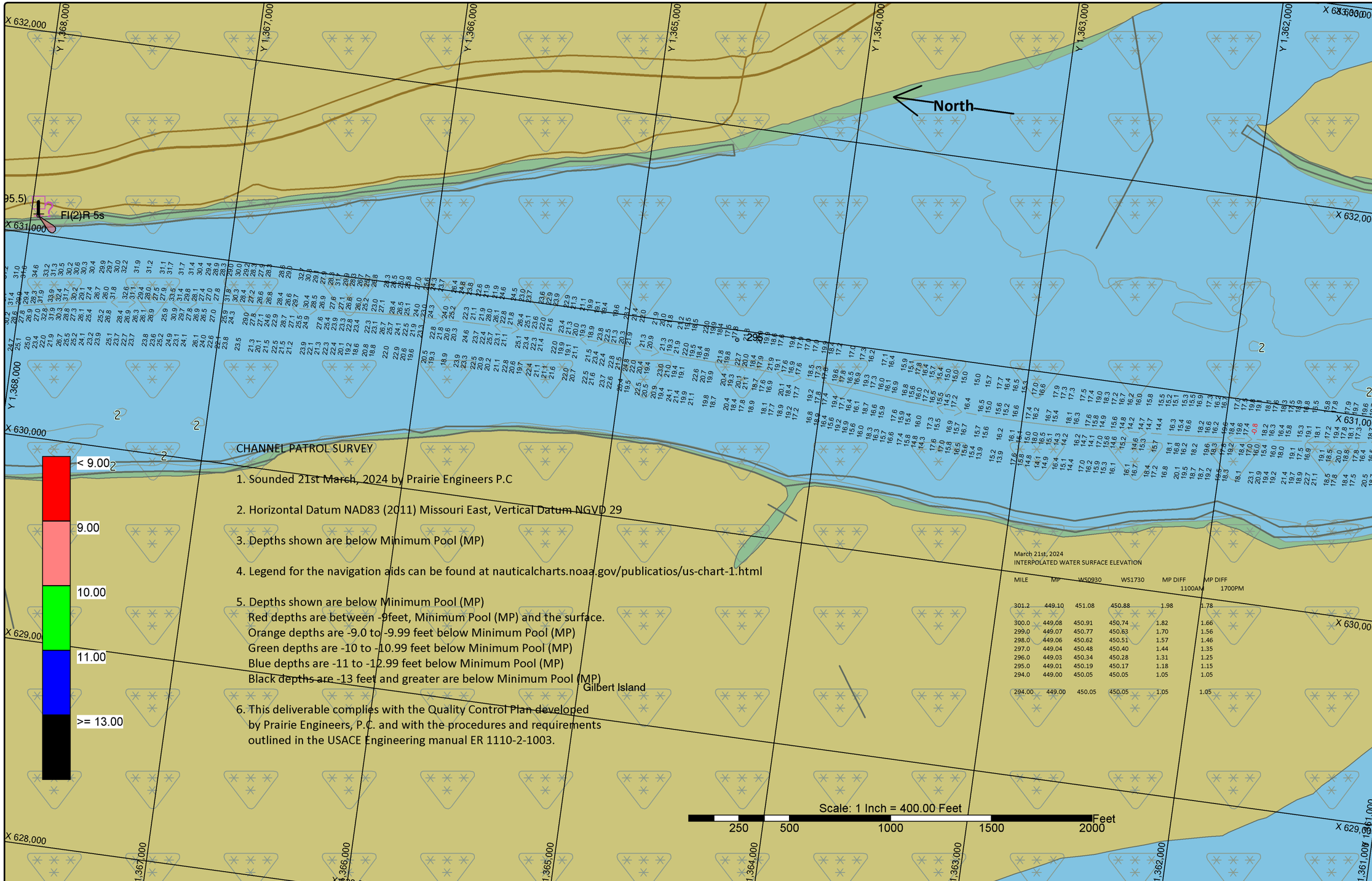
US ARMY CORPS OF ENGINEERS
ST LOUIS DISTRICT
ST.LOUIS, MISSOURI

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



CHANNEL PATROL SURVEY

1. Sounded 21st 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 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
301.2	449.10	451.08	450.88	1.98	1.78
300.0	449.08	450.91	450.74	1.82	1.66
299.0	449.07	450.77	450.63	1.70	1.56
298.0	449.06	450.62	450.51	1.57	1.46
297.0	449.04	450.48	450.40	1.44	1.35
296.0	449.03	450.34	450.28	1.31	1.25
295.0	449.01	450.19	450.17	1.18	1.15
294.0	449.00	450.05	450.05	1.05	1.05
294.00	449.00	450.05	450.05	1.05	1.05

ST.LOUIS

Gage Records 21st March 2024
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft
LD 22 (L) gage @ 1100AM = 4.98ft @ 1700PM = 4.78ft

DATES OF SURVEY: MARCH 19TH-22ND 2024

SCALE: ONE INCH = 400 FEET

FILE NO.:
REQUEST NO.:

FIELD BOOKS:

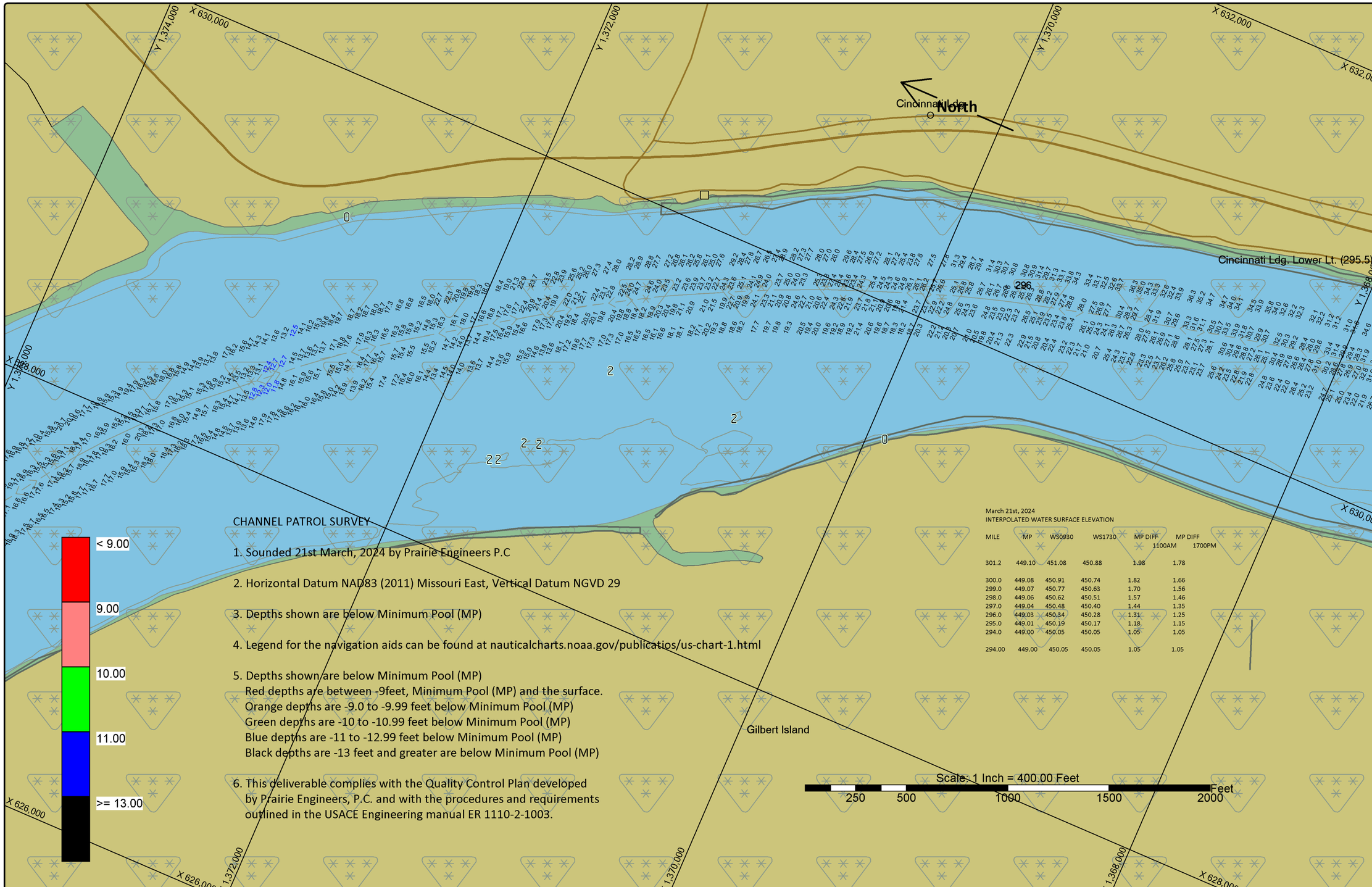
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

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 21st 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 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
301.2	449.10	451.08	450.88	1.98	1.78
300.0	449.08	450.91	450.74	1.82	1.66
299.0	449.07	450.77	450.63	1.70	1.56
298.0	449.06	450.62	450.51	1.57	1.46
297.0	449.04	450.48	450.40	1.44	1.35
296.0	449.03	450.34	450.28	1.31	1.25
295.0	449.01	450.19	450.17	1.18	1.15
294.0	449.00	450.05	450.05	1.05	1.05
294.00	449.00	450.05	450.05	1.05	1.05

ST.LOUIS

Gage Records 21st March 2024
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft
LD 22 (L) gage @ 1100AM = 4.98ft @ 1700PM = 4.78ft

DATES OF SURVEY: MARCH 19TH-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 8th 2024

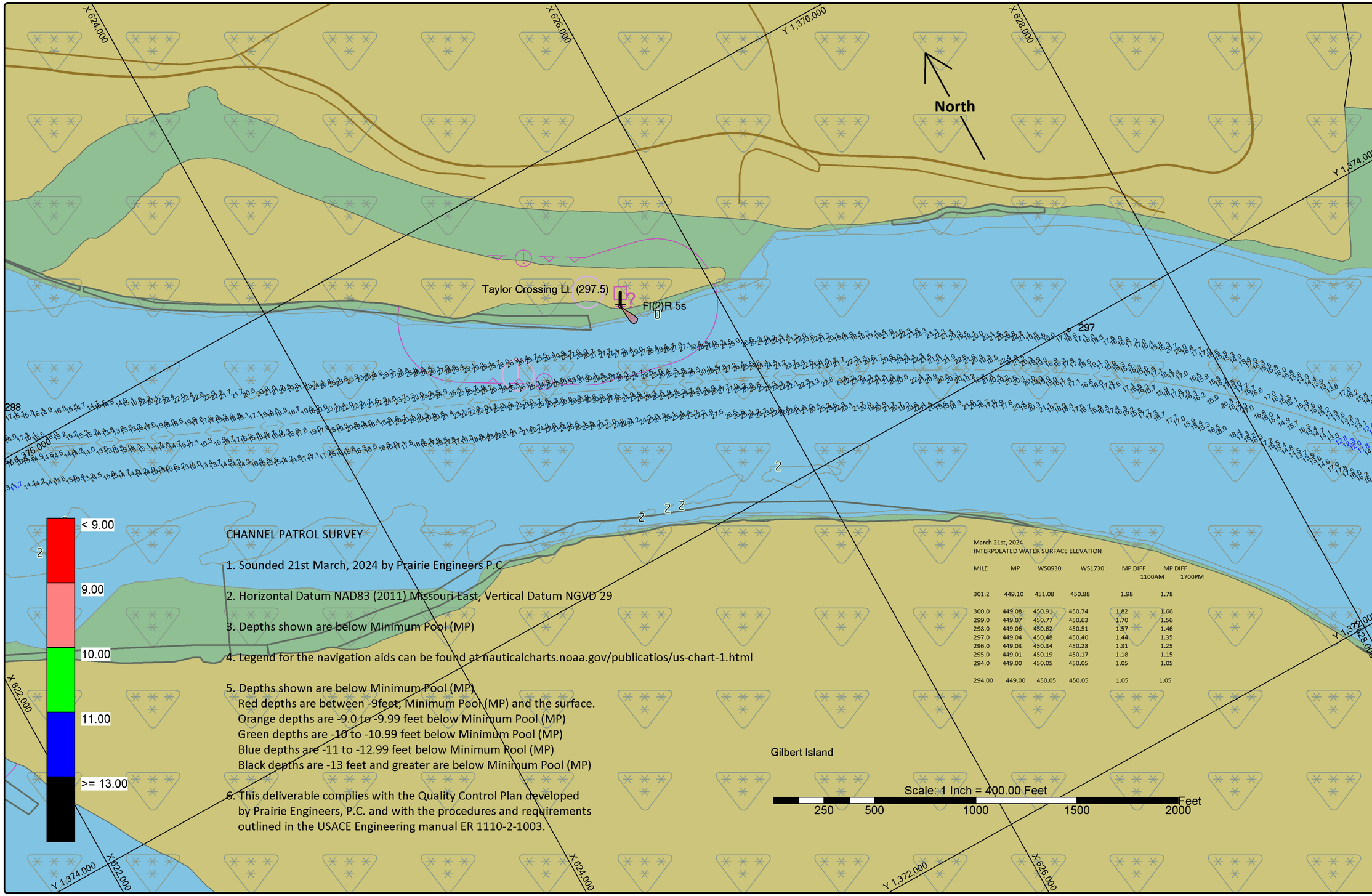
US ARMY CORPS OF ENGINEERS
ST.LOUIS DISTRICT
ST.LOUIS, MISSOURI

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 083



CHANNEL PATROL SURVEY

1. Sounded 21st 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)
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   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 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
301.2	449.10	451.08	450.88	1.98	1.78
300.0	449.08	450.91	450.74	1.82	1.66
299.0	449.07	450.77	450.63	1.70	1.56
298.0	449.06	450.62	450.51	1.57	1.46
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296.0	449.03	450.34	450.28	1.31	1.25
295.0	449.01	450.19	450.17	1.18	1.15
294.0	449.00	450.05	450.05	1.05	1.05
294.00	449.00	450.05	450.05	1.05	1.05

ST.LOUIS

Gage Records 21st March 2024
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft
LD 22 (L) gage @ 1100AM = 4.98ft. @ 1700PM = 4.78ft

DATES OF SURVEY:
MARCH 19TH-2024

SCALE:
ONE INCH = 400 FEET

FILE NO.:
REQUEST NO.:

FIELD BOOKS:

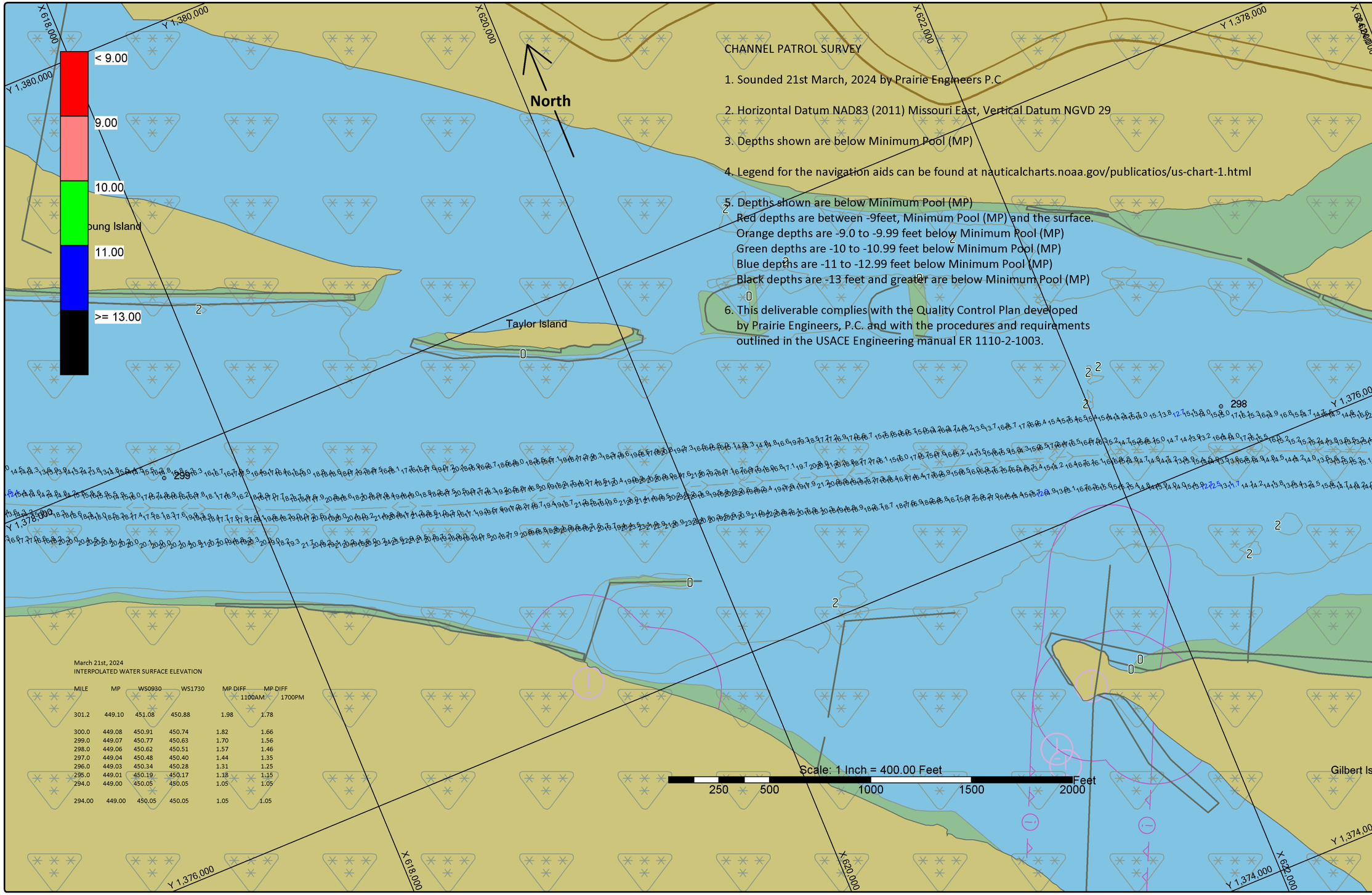
Approved: Abednego Nkem
FIELD CARTOGRAPHER
Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Langer
ASST. CHIEF OF SURVEY
Approved: Tristan Harper
CHIEF OF SURVEY
Date: APRIL 8th 2024

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 21st 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)
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Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)

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March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
301.2	449.10	451.08	450.88	1.98	1.78
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294.00	449.00	450.05	450.05	1.05	1.05

ST.LOUIS

Gage Records 21st March 2024
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft
LD 22 (L) gage @ 1100AM = 4.98ft @ 1700PM = 4.78ft

DATES OF SURVEY: MARCH 19TH-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 8th 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

< 9.00

9.00

10.00

11.00

>= 13.00

Browns Island

Jim Young Island

North

X 614,000

Y 1,382,000

X 616,000

X 618,000

Y 1,380,000

X 612,000

Y 1,378,000

March 21st, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS0930	WS1730	MP DIFF 1100AM	MP DIFF 1700PM
294.00	449.00	450.05	450.05	1.05	1.05
293.00	448.98	449.98	449.97	1.00	0.99
292.00	448.96	449.91	449.90	0.95	0.93
291.00	448.95	449.84	449.82	0.90	0.87
290.00	448.93	449.78	449.74	0.85	0.82
289.00	448.91	449.71	449.67	0.80	0.76
288.00	448.89	449.64	449.59	0.75	0.70
287.00	448.87	449.57	449.51	0.70	0.64
286.00	448.86	449.50	449.44	0.65	0.58
285.00	448.84	449.43	449.36	0.60	0.52
284.00	448.82	449.37	449.28	0.55	0.46
283.00	448.80	449.30	449.21	0.50	0.41
282.90	448.80	449.29	449.20	0.49	0.40

Taylor Station Lt. (299.5)

FIG 4s

Scale: 1 Inch = 400.00 Feet

250 500 1000 1500 2000 Feet

CHANNEL PATROL SURVEY

1. Sounded 21st 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)

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ST.LOUIS

Gage Records 21st March 2024
Louisianna gage @ 1100AM = 11.98ft; @1700PM = 11.87ft
Mundy gage @ 1100AM = 8.20ft; @1700PM = 8.20ft

DATES OF SURVEY: MARCH 19TH-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 8th 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