US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 15 FT RADIUS GENERATED FROM HYDROSURVEY DATA.

4. BACKGROUND: ESRI IMAGERY GIS WEB SERVICE.

5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.

6. SURVEY XYZ (*.XYZ) AND METADATA (*.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
HORIZONTAL CONTROL MONUMENTS: USCG DGPS

VERTICAL REFERENCE DATUM:DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE:1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD: POINT POSITIONING

GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS:

MONUMENT	DISMALSWAMP CANAL DATUM	NAVD88	TIDE APPLICATION	AREA
CE "HORNETS", 2009	3.91'	11.32'(GEOID12B)	Direct	0+00 to 400+00
CE "SCUSSEL", 2009	13.20'	20.27'(GEOID12B)	Direct	401+00 to 800+00
CE "BLACK BEAR", 1993	4.31'	11.64'(GEOID12B)	Direct	801+00 to 1168+00

ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 1 of 19

Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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PROJECTED COORDINATE SYSTEM:	STATE PLANE
DATUM NAME:	NAD 83
HORIZONTAL ZONE:	VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS:	US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY:	+/- 10 FEET
HORIZONTAL CONTROL MONUMENTS:	USCG DGPS

VERTICAL REFERENCE DATUM:DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE:1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD: POINT POSITIONING

GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS:

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 2 of 19
Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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DATUM NAME:	NAD 83
HORIZONTAL ZONE:	VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS:	US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY:	+/- 10 FEET
HORIZONTAL CONTROL MONUMENTS:	USCG DGPS

VERTICAL REFERENCE DATUM:DISMAL SWAMP CANAL DATUM
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SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 3 of 19

Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD: POINT POSITIONING

PROJECTED COORDINATE SYSTEM:	STATE PLANE
DATUM NAME:	NAD 83
HORIZONTAL ZONE:	VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS:	US SURVEY FEET
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT
eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 4 of 19
Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

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US Army Corps
of Engineers
Norfolk District

NOTES:

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IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
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VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 5 of 19

Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
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Norfolk District

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

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SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 6 of 19
Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

NOTES:

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DATUM NAME:	NAD 83
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 7 of 19

Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 8 of 19
Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

NOTES:

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

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July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 9 of 19
Map Produced: 9/11/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

⊕ Benchmark
Channel Toes
Channel Quarter/Parameter Line
Maintained Depth Contour Line

0 50 100 Feet
1 inch = 100 Feet

Bathymetry (Depths in Feet)

🟥	0' - 1.9'	🟩	6' - 6.9'
🟥	2' - 2.9'	🟩	7' - 7.9'
🟥	3' - 3.9'	🟩	8' - 8.9'
🟧	4' - 4.9'	🟦	9' - 9.9'
🟨	5' - 5.9'	🟦	10' and Deeper

⊕ Benchmark
Channel Toes
Channel Quarter/Parameter Line
Maintained Depth Contour Line

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NOTES:

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DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

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July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 10 of 19
Map Produced: 9/11/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

SHEET 11 of 19
Map Produced: 9/11/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
HORIZONTAL CONTROL MONUMENTS: USCG DGPS

VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD: POINT POSITIONING

GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS:

MONUMENT	DISMALSWAMP CANAL DATUM	NAVD88	TIDE APPLICATION	AREA
CE "HORNETS", 2009	3.91'	11.32'(GEOID12B)	Direct	0+00 to 400+00
CE "SCUSSEL", 2009	13.20'	20.27'(GEOID12B)	Direct	401+00 to 800+00
CE "BLACK BEAR", 1993	4.31'	11.64'(GEOID12B)	Direct	801+00 to 1168+00

NOTES:
1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 15 FT RADIUS GENERATED FROM HYDROSURVEY DATA.

4. BACKGROUND: ESRI IMAGERY GIS WEB SERVICE.

5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.

6. SURVEY XYZ (*.XYZ) AND METADATA (*.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

US Army Corps
of Engineers
Norfolk District

US Army Corps
of Engineers
Norfolk District

NOTES:

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DATUM NAME:	NAD 83
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PROJECTED COORDINATE UNITS:	US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY:	+/- 10 FEET
HORIZONTAL CONTROL MONUMENTS:	USCG DGPS

VERTICAL REFERENCE DATUM:DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 12 of 19
Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

⊕	Benchmark
——	Channel Toes
——	Channel Quarter/Parameter Line
······	Maintained Depth Contour Line

0 50 100 Feet
1 inch = 100 Feet

Bathymetry (Depths in Feet)

🟥	0' - 1.9'	🟩	6' - 6.9'
🟥	2' - 2.9'	🟩	7' - 7.9'
🟥	3' - 3.9'	🟦	8' - 8.9'
🟧	4' - 4.9'	🟦	9' - 9.9'
🟨	5' - 5.9'	🟦	10' and Deeper

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US Army Corps
of Engineers
Norfolk District

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 13 of 19
Map Produced: 9/11/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

⊕ Benchmark
Channel Toes
Channel Quarter/Parameter Line
Maintained Depth Contour Line
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US Army Corps
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 14 of 19
Map Produced: 9/11/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

NOTES:

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

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July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 15 of 19

Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

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DISMAL SWAMP CANAL

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July 19, 20, & 21, 2017

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SHEET 16 of 19
Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

NOTES:

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

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July 19, 20, & 21, 2017

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SHEET 17 of 19
Map Produced: 9/11/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

⊕ Benchmark
Channel Toes
Channel Quarter/Parameter Line
Maintained Depth Contour Line

0 50 100 Feet
1 inch = 101 Feet

Bathymetry (Depths in Feet)

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US Army Corps
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Norfolk District

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

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SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

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SHEET 18 of 19
Map Produced: 9/11/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

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DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_Bookmaked_DH

SHEET 19 of 19
Map Produced: 9/11/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

DRAFT

US Army Corps of Engineers Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 15 FT RADIUS GENERATED FROM HYDROSURVEY DATA.

4. BACKGROUND: ESRI IMAGERY GIS WEB SERVICE.

5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.

6. SURVEY XYZ (*.XYZ) AND METADATA (*.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM:	STATE PLANE
DATUM NAME:	NAD 83
HORIZONTAL ZONE:	VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS:	US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY:	+/- 10 FEET
HORIZONTAL CONTROL MONUMENTS:	USCG DGPS

VERTICAL REFERENCE DATUM:	DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY:	+/- 0.5 FEET
SYSTEM/METHOD:	MULTI-BEAM; RTK POS MV
BIN SIZE:	1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD:	POINT POSITIONING

GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS:

MONUMENT	DISMALSWAMP CANAL DATUM	NAVD88	TIDE APPLICATION	AREA
CE "HORNETS", 2009	3.91'	11.32'(GEOID12B)	Direct	0+00 to 400+00
CE "SCUSSEL", 2009	13.20'	20.27'(GEOID12B)	Direct	401+00 to 800+00
CE "BLACK BEAR", 1993	4.31'	11.64'(GEOID12B)	Direct	801+00 to 1168+00

ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 1 of 19
Map Produced: 9/15/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

SHEET 2 of 19
Map Produced: 9/15/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

PROJECTED COORDINATE SYSTEM:	STATE PLANE
DATUM NAME:	NAD 83
HORIZONTAL ZONE:	VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS:	US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY:	+/- 10 FEET
HORIZONTAL CONTROL MONUMENTS:	USCG DGPS

VERTICAL REFERENCE DATUM:	DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY:	+/- 0.5 FEET
SYSTEM/METHOD:	MULTI-BEAM; RTK POS MV
BIN SIZE:	1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
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US Army Corps of Engineers
Norfolk District

DRAFT

US Army Corps
of Engineers
Norfolk District

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PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
HORIZONTAL CONTROL MONUMENTS: USCG DGPS

VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 3 of 19
Map Produced: 9/15/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD: POINT POSITIONING

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
HORIZONTAL CONTROL MONUMENTS: USCG DGPS

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 4 of 19
Map Produced: 9/15/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

⊕ Benchmark
Channel Toes
Channel Quarter/Parameter Line
Maintained Depth Contour Line

Bathymetry (Depths in Feet)
🟥 0' - 4.9'
🟩 5' and Deeper

0 50 100 Feet
1 inch = 100 Feet

⊕ Benchmark
Channel Toes
Channel Quarter/Parameter Line
Maintained Depth Contour Line

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1 inch = 100 Feet

DRAFT

US Army Corps
of Engineers
Norfolk District

NOTES:
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IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
HORIZONTAL CONTROL MONUMENTS: USCG DGPS

VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD: POINT POSITIONING

GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS:

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT
eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 5 of 19
Map Produced: 9/15/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

DRAFT

US Army Corps
of Engineers
Norfolk District

NOTES:

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BIN SELECTION METHOD: POINT POSITIONING

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DATUM NAME: NAD 83
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 6 of 19
Map Produced: 9/15/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps
of Engineers
Norfolk District

⊕ Benchmark
Channel Toes
Channel Quarter/Parameter Line
Maintained Depth Contour Line

0 50 100 Feet
1 inch = 100 Feet

Bathymetry (Depths in Feet)
🟥 0' - 4.9'
🟩 5' and Deeper

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 7 of 19
Map Produced: 9/15/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

DRAFT

US Army Corps
of Engineers
Norfolk District

NOTES:

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

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SHEET 8 of 19

Map Produced: 9/15/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

US Army Corps of Engineers
Norfolk District

DRAFT

NOTES:

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT
eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 9 of 19
Map Produced: 9/15/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

DRAFT

US Army Corps
of Engineers
Norfolk District

NOTES:

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CE "BLACK BEAR", 1993	4.31'	11.64'(GEOID12B)	Direct	801+00 to 1168+00

ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 10 of 19
Map Produced: 9/15/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

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US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 15 FT RADIUS GENERATED FROM HYDROSURVEY DATA.

4. BACKGROUND: ESRI IMAGERY GIS WEB SERVICE.

5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.

6. SURVEY XYZ (*.XYZ) AND METADATA (*.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
HORIZONTAL CONTROL MONUMENTS: USCG DGPS

VERTICAL REFERENCE DATUM:DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD: POINT POSITIONING

GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS:

MONUMENT	DISMALSWAMP CANAL DATUM	NAVD88	TIDE APPLICATION	AREA
CE "HORNETS", 2009	3.91'	11.32'(GEOID12B)	Direct	0+00 to 400+00
CE "SCUSSEL", 2009	13.20'	20.27'(GEOID12B)	Direct	401+00 to 800+00
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT
eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 11 of 19
Map Produced: 9/15/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

DRAFT

US Army Corps
of Engineers
Norfolk District

NOTES:
1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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AREA
0+00 to 400+00
401+00 to 800+00
801+00 to 1168+00

VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD: POINT POSITIONING

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
HORIZONTAL CONTROL MONUMENTS: USCG DGPS

GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS:

MONUMENT	DISMALSWAMP CANAL DATUM	NAVD88	TIDE APPLICATION
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CE "SCUSSEL", 2009	13.20'	20.27'(GEOID12B)	Direct
CE "BLACK BEAR", 1993	4.31'	11.64'(GEOID12B)	Direct

ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 12 of 19
Map Produced: 9/15/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

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US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
HORIZONTAL CONTROL MONUMENTS: USCG DGPS

VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 13 of 19
Map Produced: 9/15/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

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US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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PROJECTED COORDINATE SYSTEM:	STATE PLANE
DATUM NAME:	NAD 83
HORIZONTAL ZONE:	VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS:	US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY:	+/- 10 FEET
HORIZONTAL CONTROL MONUMENTS:	USCG DGPS

VERTICAL REFERENCE DATUM:	DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY:	+/- 0.5 FEET
SYSTEM/METHOD:	MULTI-BEAM; RTK POS MV
BIN SIZE:	1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
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GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS:

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 14 of 19
Map Produced: 9/15/2017

APPROVED:
____
Chief, Navigation Analysis Section

APPROVED:
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Chief, Navigation Support and Survey Section

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US Army Corps
of Engineers
Norfolk District

NOTES:
1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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DATUM NAME:	NAD 83
HORIZONTAL ZONE:	VIRGINIA SOUTH ZONE
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IMPLIED HORIZONTAL ACCURACY:	+/- 10 FEET
HORIZONTAL CONTROL MONUMENTS:	USCG DGPS

VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 15 of 19
Map Produced: 9/15/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

- ⊕ Benchmark
- Channel Toes
- Channel Quarter/Parameter Line
- Maintained Depth Contour Line

Bathymetry (Depths in Feet)

- 🟥 0' - 4.9'
- 🟩 5' and Deeper

0 50 100 Feet
1 inch = 100 Feet

- ⊕ Benchmark
- Channel Toes
- Channel Quarter/Parameter Line
- Maintained Depth Contour Line

Bathymetry (Depths in Feet)

- 🟥 0' - 4.9'
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0 50 100 Feet
1 inch = 100 Feet

DRAFT

US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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PROJECTED COORDINATE SYSTEM:	STATE PLANE
DATUM NAME:	NAD 83
HORIZONTAL ZONE:	VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS:	US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY:	+/- 10 FEET
HORIZONTAL CONTROL MONUMENTS:	USCG DGPS

VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD: POINT POSITIONING

GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS:

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 16 of 19
Map Produced: 9/15/2017

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section

⊕ Benchmark

Channel Toes

Channel Quarter/Parameter Line

Maintained Depth Contour Line

Bathymetry (Depths in Feet)

🟥 0' - 4.9'

🟩 5' and Deeper

⊕ Benchmark

Channel Toes

Channel Quarter/Parameter Line

Maintained Depth Contour Line

Bathymetry (Depths in Feet)

🟥 0' - 4.9'

🟩 5' and Deeper

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US Army Corps
of Engineers
Norfolk District

NOTES:
1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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DATUM NAME:	NAD 83
HORIZONTAL ZONE:	VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS:	US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY:	+/- 10 FEET
HORIZONTAL CONTROL MONUMENTS:	USCG DGPS

VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 17 of 19
Map Produced: 9/15/2017

APPROVED:
____
Chief, Navigation Analysis Section

APPROVED:
____
Chief, Navigation Support and Survey Section

DRAFT

US Army Corps of Engineers
Norfolk District

NOTES:
1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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ATLANTIC INTRACOASTAL WATERWAY (AIWW)

DISMAL SWAMP CANAL

PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 18 of 19
Map Produced: 9/15/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

DRAFT

US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

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PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
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VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
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ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20, & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT
eHYDRO FILE: IW_06_DSC_20170719_CS_2Colors

SHEET 19 of 19
Map Produced: 9/15/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section

⊕	Benchmark
—	Channel Toes
—	Channel Quarter/Parameter Line
⋯	Maintained Depth Contour Line

Bathymetry (Depths in Feet)

🟥	0' - 1.9'	🟩	6' - 6.9'
🟥	2' - 2.9'	🟩	7' - 7.9'
🟥	3' - 3.9'	🟩	8' - 8.9'
🟧	4' - 4.9'	🟦	9' - 9.9'
🟨	5' - 5.9'	🟦	10' and Deeper

⊕	Benchmark
—	Channel Toes
—	Channel Quarter/Parameter Line
⋯	Maintained Depth Contour Line

Bathymetry (Depths in Feet)

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🟨	5' - 5.9'	🟦	10' and Deeper

36° 35' 30" N

US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: ATLANTIC INTRACOASTAL WATERWAY- DISMAL SWAMP CANAL ROUTE: A CHANNEL 9 FEET DEEP (MAINTAINED TO 6 FEET) AND 50 FEET WIDE. UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE A 6-FOOT DEEP CHANNEL WILL BE MAINTAINED.

2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 15 FT RADIUS GENERATED FROM HYDROSURVEY DATA.

4. BACKGROUND: ESRI IMAGERY GIS WEB SERVICE.

5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.

6. SURVEY XYZ (*.XYZ) AND METADATA (*.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET
HORIZONTAL CONTROL MONUMENTS: USCG DGPS

VERTICAL REFERENCE DATUM: DISMAL SWAMP CANAL DATUM
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
SYSTEM/METHOD: MULTI-BEAM; RTK POS MV
BIN SIZE: 1'x1' REDUCED; SHOALEST DEPTH IN 3' RADIUS
BIN SELECTION METHOD: POINT POSITIONING

GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS:

MONUMENT	DISMALSWAMP CANAL DATUM	NAVD88	TIDE APPLICATION	AREA
CE "HORNETS", 2009	4.02'	11.43'(GEOID12B)	Direct	0+00 to 400+00
CE "SCUSSEL", 2009	13.20'	20.27'(GEOID12B)	Direct	401+00 to 800+00
CE "BLACK BEAR", 1993	4.31'	11.64'(GEOID12B)	Direct	801+00 to 1168+00

ATLANTIC INTRACOASTAL WATERWAY (AIWW)
DISMAL SWAMP CANAL
PROJECT CONDITION SURVEY

SURVEY DATES:
July 19, 20 & 21, 2017

SURVEY BY: USACE, Team Lead: ST LOUIS DISTRICT

eHYDRO FILE: IW_06_DSC_20170719_CS

SHEET of
Map Produced: 8/16/2017

APPROVED:
Chief, Navigation Analysis Section

APPROVED:
Chief, Navigation Support and Survey Section