

# USACE Norfolk District, Section 408 Waters in NC, August 2019 - NC Department of Transportation

## File Geodatabase Feature Class



### Tags

North Carolina, US Army Corps of Engineers, USACE, Norfolk District, Section 408, Civil Works, Dismal Swamp Canal, 408 Categorical Permission, Norfolk COE, Channel, Boundaries, Inland Waters, Oceans, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

### Summary

This dataset was originally created in January 2019 as part of the Project ATLAS initiative at NCDOT to support the Sweeping Environmental Group with project delivery in the development phase.

Areas represented in this layer are waters (and limited shoreline/land areas) designated as Civil Works projects as established in Section 14 of the Rivers and Harbors Act of 1899, which has since been amended several times and is codified at 33 USC 408 (Section 408). Section 408 waters elsewhere in NC are maintained by the Wilmington District of the USACE.

The intended use of this layer is to assist the Water Resources Division, Norfolk District, to identify 408 applications that do not need to go through the full 408 process. All 408 applications plotted outside of the layer do not need to go through the 408 process. However, if the application plots inside the layer boundary, a 408 process is triggered. This layer is designed for this purpose only. The usage of this layer is strictly for this purpose and should not be used under any circumstances for any type of analysis or any other purpose. This layer is for one use only, to designate if a full 408 determination is needed.

### Description

The ATLAS NAO Section 408 Waters dataset is a polygon layer depicting dredged channels within the regulatory district of the Norfolk Corps of Engineers. Areas represented in this layer are waters (and limited shoreline/land areas) designated as Civil Works projects as established in Section 14 of the Rivers and Harbors Act of 1899, which has since been amended several times and is codified at 33 USC 408 (Section 408).

This dataset facilitates all permitting workflows, including PCN generation. Section 408 requires that the USACE to grant permission for another party to impact or alter a Civil Works project upon a determination that the alteration proposed will not be injurious to the public interest and will not impair the usefulness of the Civil Works project. SWEEPing intends to coordinate with the USACE Norfolk District to update the geometry of these areas to match ATLAS Open Waters geometry. No additional data (attributes) are expected to be included.

### Credits

The ATLAS Sweeping Environmental Group within NCDOT was tasked to create this dataset.

Annual maintenance of this dataset is handled by the Sweeping Environmental Group. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

### Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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## Extent

**West** -77.094798    **East** -75.994914  
**North** 36.563668    **South** 36.149622

## Scale Range

**Maximum (zoomed in)** 1:5,000  
**Minimum (zoomed out)** 1:625,000

## ArcGIS Metadata ▶

## Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE    oceans, boundaries, inlandWaters, location, transportation, environment

\* CONTENT TYPE    Downloadable Data  
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION    No

PLACE KEYWORDS    North Carolina

### THESAURUS ▶

TITLE    User  
CREATION DATE    2019-01-01 00:00:00  
PUBLICATION DATE    2019-08-28 00:00:00

*Hide Thesaurus ▲*

THEME KEYWORDS    US Army Corps of Engineers, USACE, Norfolk District, Section 408, Civil Works, Dismal Swamp Canal, 408 Categorical Permission, Norfolk COE, Channel, Boundaries, Inland Waters, Oceans, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

### THESAURUS ▶

TITLE    User  
CREATION DATE    2019-01-01 00:00:00  
PUBLICATION DATE    2019-08-28 00:00:00

*Hide Thesaurus ▲*

*Hide Topics and Keywords ▲*

## Citation ▶

TITLE    USACE Norfolk District, Section 408 Waters in NC, August 2019 - NC Department of Transportation  
CREATION DATE    2019-01-01 00:00:00  
PUBLICATION DATE    2019-08-28 00:00:00

PRESENTATION FORMATS    digital map  
FGDC GEOSPATIAL PRESENTATION FORMAT    vector digital data

*Hide Citation ▲*

## Citation Contacts ▶

### RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit  
CONTACT'S POSITION Environmental Program Consultant  
CONTACT'S ROLE point of contact

### CONTACT INFORMATION ▶

#### PHONE

VOICE 919-707-6136

#### ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS [ATLAS@ncdot.gov](mailto:ATLAS@ncdot.gov)

#### HOURS OF SERVICE

9:00am – 5:00pm Monday - Friday

#### CONTACT INSTRUCTIONS

Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

### RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit  
CONTACT'S POSITION Environmental Program Consultant  
CONTACT'S ROLE resource provider

### CONTACT INFORMATION ▶

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CONTACT'S ROLE originator

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[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

## Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE vector

\* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS

The ATLAS Sweeping Environmental Group within NCDOT was tasked to create this dataset.

Annual maintenance of this dataset is handled by the Sweeping Environmental Group. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

[Hide Resource Details ▲](#)

## Extents ►

EXTENT

DESCRIPTION

Data collection is complete.

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -84.422111

EAST LONGITUDE -75.416034

SOUTH LATITUDE 33.730557

NORTH LATITUDE 36.617257  
EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT  
BEGINNING DATE 2019-01-01 00:00:00  
ENDING DATE 2019-01-01 00:00:00

#### EXTENT

##### GEOGRAPHIC EXTENT

###### BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching  
\* WEST LONGITUDE -77.094798  
\* EAST LONGITUDE -75.994914  
\* NORTH LATITUDE 36.563668  
\* SOUTH LATITUDE 36.149622  
\* EXTENT CONTAINS THE RESOURCE Yes

##### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 2562326.422049  
\* EAST LONGITUDE 2882796.452579  
\* SOUTH LATITUDE 886663.554280  
\* NORTH LATITUDE 1029535.056853  
\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

#### POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Sweeping Environmental Group  
CONTACT'S POSITION Environmental Program Consultant  
CONTACT'S ROLE originator

#### CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

## RESOURCE MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

### OTHER MAINTENANCE REQUIREMENTS

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### MAINTENANCE CONTACT

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

### LEGAL CONSTRAINTS

#### LIMITATIONS OF USE

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### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

#### LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)

## Spatial Reference ►

#### ARC GIS COORDINATE SYSTEM

- \* TYPE Projected
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983
- \* PROJECTION NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet
- \* COORDINATE REFERENCE DETAILS

##### PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719  
X ORIGIN -121841900  
Y ORIGIN -93659000  
XY SCALE 36365718.124241434  
Z ORIGIN -100000  
Z SCALE 10000  
M ORIGIN -100000  
M SCALE 10000  
XY TOLERANCE 0.0032808333333333331  
Z TOLERANCE 0.001  
M TOLERANCE 0.001  
HIGH PRECISION true  
LATEST WELL-KNOWN IDENTIFIER 2264

##### WELL-KNOWN TEXT

PROJCS["NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert\_Conformal\_Conic"],PARAMETER["False\_Easting",2000000.002616666],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-79.0],PARAMETER["Standard\_Parallel\_1",34.33333333333334],PARAMETER["Standard\_Parallel\_2",36.16666666666666],PARAMETER["Latitude\_Of\_Origin",33.75],UNIT["Foot\_US",0.3048006096012192],AUTHORITY["EPSG",2264]]

#### REFERENCE SYSTEM IDENTIFIER

- VALUE 2264
- \* CODESPACE EPSG
  - \* VERSION 6.12(9.0.0)

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

## VECTOR ▶

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

### GEOMETRIC OBJECTS

FEATURE CLASS NAME NAOSection408Waters

\* OBJECT TYPE composite

\* OBJECT COUNT 5

[Hide Vector ▲](#)

## ARCGIS FEATURE CLASS PROPERTIES ▶

FEATURE CLASS NAME NAOSection408Waters

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Polygon

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 5

\* SPATIAL INDEX TRUE

\* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Data Quality ▶

### SCOPE OF QUALITY INFORMATION ▶

RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

### DATA QUALITY REPORT - COMPLETENESS OMISSION ▶

#### MEASURE DESCRIPTION

After processing, the dataset is checked for drawing display and number of records and file sizes compared with source materials.

### CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

### PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2019-01-01 00:00:00

PUBLICATION DATE 2019-08-28 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Completeness omission ▲](#)



DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶

MEASURE DESCRIPTION

The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The geometry is checked, and if needed repaired.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2019-01-01 00:00:00

PUBLICATION DATE 2019-08-28 00:00:00

*Hide Product specification ▲*

*Hide Data quality report - Conceptual consistency ▲*

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

MEASURE DESCRIPTION

Geometry checks were conducted using ESRI's Data Reviewer tool.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2019-01-01 00:00:00

PUBLICATION DATE 2019-08-28 00:00:00

*Hide Product specification ▲*

*Hide Data quality report - Quantitative attribute accuracy ▲*

*Hide Data Quality ▲*

**Lineage** ▶

LINEAGE STATEMENT

The USACE Norfolk District provided these waters as a shapefile projected in NAD83, Virginia State Plane, feet. The shapefile was exported to geodatabase format with a projection of NAD83, NC State Plane, feet.

PROCESS STEP ▶

DESCRIPTION

Geodatabase was forwarded on to the GIS Unit for publishing as part of data for project ATLAS.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Sweeping Environmental Group  
CONTACT'S POSITION Environmental Program Consultant  
CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 919-707-6136

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS [ATLAS@ncdot.gov](mailto:ATLAS@ncdot.gov)

HOURS OF SERVICE

9:00am – 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

DESCRIPTION

Point data was reviewed in ESRI's Data Reviewer tool to verify geometry. Overlapping geometries in the dataset were found and corrected.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Sweeping Environmental Group  
CONTACT'S POSITION Environmental Program Consultant  
CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 919-707-6136

ADDRESS

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

The provided shapefile was projected in NAD83, Virginia State Plane, feet. This shapefile was exported to geodatabase format with a projection of NAD83, NC State Plane, feet.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Sweeping Environmental Group  
CONTACT'S POSITION Environmental Program Consultant  
CONTACT'S ROLE originator

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

## Distribution ►

### DISTRIBUTOR ►

#### CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit  
CONTACT'S POSITION Environmental Program Consultant  
CONTACT'S ROLE distributor

#### CONTACT INFORMATION ►

##### PHONE

VOICE 919-707-6136

##### ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

### DISTRIBUTION FORMAT

\* NAME File Geodatabase Feature Class

VERSION 10.5

[Hide Distribution ▲](#)

## Fields ►

### DETAILS FOR OBJECT [NAOSection408Waters ►](#)

\* TYPE Feature Class

\* ROW COUNT 5

#### DEFINITION

The ATLAS NAO Section 408 Waters dataset is a polygon layer depicting dredged channels within the regulatory district of the Norfolk Corps of Engineers.

#### DEFINITION SOURCE

NCDOT

FIELD OBJECTID ►

- \* ALIAS OBJECTID
- \* DATA TYPE OID
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION  
Internal feature number.
  
- \* DESCRIPTION SOURCE  
Esri
  
- \* DESCRIPTION OF VALUES  
Sequential unique whole numbers that are automatically generated.

*Hide Field OBJECTID ▲*

FIELD Shape ►

- \* ALIAS Shape
- \* DATA TYPE Geometry
- \* WIDTH 0
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION  
Feature geometry.
  
- \* DESCRIPTION SOURCE  
Esri
  
- \* DESCRIPTION OF VALUES  
Coordinates defining the features.

*Hide Field Shape ▲*

FIELD Name ►

- ALIAS RiverName
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0
- FIELD DESCRIPTION  
River Name
  
- DESCRIPTION SOURCE  
NCDOT

*Hide Field Name ▲*

FIELD DSource ►

- \* ALIAS DataSource
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Source from where data was obtained

DESCRIPTION SOURCE

NCDOT

[Hide Field DSource ▲](#)

FIELD [Shape\\_Length ▶](#)

\* ALIAS Shape\_Length

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

\* FIELD DESCRIPTION

Length of feature in internal units.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

[Hide Field Shape\\_Length ▲](#)

FIELD [Shape\\_Area ▶](#)

\* ALIAS Shape\_Area

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

\* FIELD DESCRIPTION

Area of feature in internal units squared.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

[Hide Field Shape\\_Area ▲](#)

[Hide Details for object NAOSection408Waters ▲](#)

[Hide Fields ▲](#)

## Metadata Details ▶

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA **dataset**  
SCOPE NAME **\* dataset**

\* LAST UPDATE 2024-01-30

#### ARCGIS METADATA PROPERTIES

METADATA FORMAT **ArcGIS 1.0**  
STANDARD OR PROFILE USED TO EDIT METADATA **ISO19139**  
METADATA STYLE **ISO 19139 Metadata Implementation Specification**

CREATED IN ARCGIS FOR THE ITEM 2024-02-01 16:06:09  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-30 09:16:20

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED **Yes**  
LAST UPDATE 2024-01-30 09:16:20

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

#### METADATA CONTACT

ORGANIZATION'S NAME **North Carolina Department of Transportation - EAU Mitigation and Modeling Unit**  
CONTACT'S POSITION **Environmental Program Consultant**  
CONTACT'S ROLE **point of contact**

#### CONTACT INFORMATION ►

PHONE  
VOICE **919-707-6136**

#### ADDRESS

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DELIVERY POINT **Century Center Building B, 1020 Birch Ridge Drive**  
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## Metadata Maintenance ►

#### MAINTENANCE

UPDATE FREQUENCY **as needed**

OTHER MAINTENANCE REQUIREMENTS

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[Hide Metadata Maintenance ▲](#)

## Metadata Constraints ►

#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

#### LIMITATIONS OF USE

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