

# NCDOT Drainage Investigations, January 2022 - NC Department of Transportation

## File Geodatabase Feature Class



### Tags

Hydro, DI, Drainage Investigation, Water, Pipe, Hydraulics, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

### Summary

This dataset was originally created in December 2021 as part of the Project ATLAS initiative at NCDOT to support the Hydraulics Unit with project delivery in the development phase.

This dataset contains the locations of Drainage Investigations studied by the NCDOT Hydraulics Unit in support to the Divisions. At the request of the Divisions, the Hydraulic Unit studies and provides a response to Drainage related issues. Features within this layer represent locations where an inquiry was made to the Hydraulics Unit in relation to a problem with drainage. Each location is recorded with information pertaining to the division responsible for the area as well as location specific information, including county and coordinate fields. The features are also linked to the Hydraulics Reservoir on the NCDOT Connect Sharepoint Site, for access to the associated document for the initial request and any follow up by the Hydraulics Unit or correspondence with other parties involved.

While the layer itself is not restricted, the documents linked to this layer are restricted and require permission from the Hydraulics Unit to access.

### Description

The NCDOT Drainage Investigations dataset is a statewide point layer containing locations of Drainage Investigations for tracking and review. Locations contain information related to the location, division involved and related documents.

Data is used to help facilitate understanding of past investigations and correlation between requests receive to help understand if they are potentially related to past incidents or a larger drainage problem. Data is also likely to be used as reference when projects are being designed. Currently the data is restricted to the Hydro Unit group and used in a dashboard for quick review and analysis.

While the layer itself is not restricted, the documents linked to this layer are restricted and require permission from the Hydraulics Unit to access.

Datasets developed under Project ATLAS do not replace any Hydraulics Unit field work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

### Credits

The Hydraulics Unit within NCDOT was tasked to create this dataset.

Annual maintenance of this dataset is handled by the Hydraulics Unit. 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** -84.125201    **East** -75.426058  
**North** 36.556356    **South** 33.829738

## 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    boundaries, environment, location, transportation

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

PLACE KEYWORDS    North Carolina

### THESAURUS ►

TITLE    User  
CREATION DATE    2021-12-15 00:00:00  
PUBLICATION DATE    2022-01-28 00:00:00

*Hide Thesaurus ▲*

THEME KEYWORDS    Hydro, DI, Drainage Investigation, Water, Pipe, Hydraulics, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

### THESAURUS ►

TITLE    User  
CREATION DATE    2021-12-15 00:00:00  
PUBLICATION DATE    2022-01-28 00:00:00

*Hide Thesaurus ▲*

*Hide Topics and Keywords ▲*

## Citation ►

TITLE NCDOT Drainage Investigations, January 2022 - NC Department of Transportation

CREATION DATE 2021-12-15 00:00:00

PUBLICATION DATE 2022-01-28 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 ►

#### PHONE

VOICE 919-707-6136

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[Hide Contact information ▲](#)

#### RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - Hydraulics Unit  
CONTACT'S POSITION State Hydraulics Engineer  
CONTACT'S ROLE originator

#### CONTACT INFORMATION ►

##### PHONE

VOICE 919-707-6700

##### ADDRESS

TYPE physical  
DELIVERY POINT 1000 Birch Ridge Drive  
CITY Raleigh  
ADMINISTRATIVE AREA NC  
POSTAL CODE 27610  
COUNTRY US  
E-MAIL ADDRESS [ATLAS@ncdot.gov](mailto:ATLAS@ncdot.gov)

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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 Hydraulics Unit within NCDOT was tasked to create this dataset.

Annual maintenance of this dataset is handled by the Hydraulics Unit. 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

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -84.125201

\* EAST LONGITUDE -75.426058

\* NORTH LATITUDE 36.556356

\* SOUTH LATITUDE 33.829738

\* EXTENT CONTAINS THE RESOURCE Yes

### TEMPORAL EXTENT

BEGINNING DATE 2021-12-15 00:00:00

ENDING DATE 2021-12-15 00:00:00

### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 493086.190103

\* EAST LONGITUDE 3050331.787543

\* SOUTH LATITUDE 66699.404854

\* NORTH LATITUDE 1021449.908078

\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

### POINT OF 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

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

## RESOURCE MAINTENANCE

UPDATE FREQUENCY quarterly

SCOPE OF THE UPDATES dataset

### OTHER MAINTENANCE REQUIREMENTS

Annual maintenance of this dataset is handled by the Hydraulics Unit who sends updated information to the EAU.

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

### MAINTENANCE 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 ►

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

### CONSTRAINTS

#### LIMITATIONS OF USE

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field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

#### LEGAL CONSTRAINTS

##### LIMITATIONS OF USE

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#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

##### LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)

## Spatial Reference ►

#### ARCGIS 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 3048.0060960121928  
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 DrainageInvestigations

\* OBJECT TYPE point

\* OBJECT COUNT 2471

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME DrainageInvestigations

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Point

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 2471

\* 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 2021-12-15 00:00:00  
PUBLICATION DATE 2022-01-28 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 2021-12-15 00:00:00

PUBLICATION DATE 2022-01-28 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Conceptual consistency ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

Manual review of the spreadsheets was performed after completion and then hosted up as a layer to AGOL which was then manually reviewed. Feature counts and the completeness of attribution was also reviewed manually for each feature and field. Similar manual review was performed when the hosted layer was downloaded and imported to the GDB. Semi-automated tasks were run to verify a match between record data in the initial set and the newly created GDB.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2021-12-15 00:00:00

PUBLICATION DATE 2022-01-28 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

[Hide Data Quality ▲](#)

## Lineage ►

### LINEAGE STATEMENT

The dataset was created by the Hydro Unit. Personnel and interns, studied the investigation documents and geocoded them to coordinate locations and then a hosted layer.

### PROCESS STEP ►

#### DESCRIPTION

Personnel and interns studied the investigation documents and found the proper locations. These locations were then added to the data as coordinate fields inside of a spreadsheet. The spreadsheet points were then turned into a hosted layer using ArcGIS Online. This hosted layer was downloaded using ArcGIS Pro and imported to a GDB.

### PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Hydraulics Unit

CONTACT'S POSITION State Hydraulics Engineer

CONTACT'S ROLE originator

### CONTACT INFORMATION ►

#### PHONE

VOICE 919-707-6700

#### ADDRESS

TYPE physical

DELIVERY POINT 1000 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

Data was reviewed in ESRI's Data Reviewer tool to verify geometry. No legitimate errors were found.

### PROCESS 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

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

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 - 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

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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

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

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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 [DrainageInvestigations](#) ►

\* TYPE Feature Class

\* ROW COUNT 2471

DEFINITION

Locations where an inquiry was made to the hydraulics unit in relation to a problem with drainage.

DEFINITION SOURCE

NCDOT

FIELD OBJECTID ►

\* ALIAS FID

\* 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 DocName ►

\* ALIAS DocumentName

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Specific Name of the document related to the specific feature.

DESCRIPTION SOURCE

NCDOT

[Hide Field DocName ▲](#)

FIELD County ▶

- \* ALIAS County
- \* DATA TYPE String
- \* WIDTH 20
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

County Name where the feature resides.

DESCRIPTION SOURCE

NCDOT

[Hide Field County ▲](#)

FIELD CountyCode ▶

- \* ALIAS CountyCode
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

County code identifier

DESCRIPTION SOURCE

NCDOT

[Hide Field CountyCode ▲](#)

FIELD Division ▶

- \* ALIAS Division
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

NCDOT division in charge of the specific area the feature resides in.

DESCRIPTION SOURCE

NCDOT

[Hide Field Division ▲](#)

FIELD Route ▶

- \* ALIAS Route
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Specific route/road related to the feature as many drainage investigation are directly related to drainage structures such as pipes under a road.

DESCRIPTION SOURCE

NCDOT

[Hide Field Route ▲](#)

FIELD [DocDate ▶](#)

- \* ALIAS DocumentDate
- \* DATA TYPE Date
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Date of the inspection task

DESCRIPTION SOURCE

NCDOT

[Hide Field DocDate ▲](#)

FIELD [Latitude ▶](#)

- \* ALIAS Latitude
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Coordinate for Latitude in decimal degrees

DESCRIPTION SOURCE

NCDOT

[Hide Field Latitude ▲](#)

FIELD [Longitude ▶](#)

- \* ALIAS Longitude
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Coordinate for Longitude in decimal degrees

DESCRIPTION SOURCE

NCDOT

[Hide Field Longitude ▲](#)

FIELD [ViewDoc ▶](#)

- \* ALIAS ViewDocumentation
- \* DATA TYPE String
- \* WIDTH 256
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

URL to the actual document stored on SharePoint for the specific feature.

DESCRIPTION SOURCE

NCDOT

[Hide Field ViewDoc ▲](#)

FIELD DocReq ►

\* ALIAS DocumentationRequest

\* DATA TYPE String

\* WIDTH 150

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

This field is for personnel or other users who do not have access to the restricted Hydraulics Reservoir on SharePoint for them to request specific documents. The form at <https://forms.office.com/g/ANUC2xbEbK> has to be filled out to request access.

DESCRIPTION SOURCE

NCDOT

[Hide Field DocReq ▲](#)

[Hide Details for object DrainageInvestigations ▲](#)

[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 2024-02-09

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 14:00:47

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-02-09 11:05:33

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-02-09 11:05:33

[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

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## Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY quarterly

OTHER MAINTENANCE REQUIREMENTS

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

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#### 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 ▲](#)

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## Metadata Constraints ►

#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

#### LIMITATIONS OF USE

The North Carolina Department of Transportation shall not be held liable for any errors in this metadata. 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. Datasets developed under Project ATLAS do not replace any NRTR work for future projects and may not be used as a replacement for site visits / field surveys by qualified professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

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