NCDOT Coastal Inundation Points (Secondary Roadways), March 2022 - NC Department of Transportation

File Geodatabase Feature Class

Tags

interstates, highways, flooding, transportation, Eastern Seaboard, Atlantic Coast, resiliency, coastal, hurricanes, inundation, rivers, streams, East Coast, Hydraulics, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in February 2022 as part of the Project ATLAS initiative at NCDOT to support the Hydraulics Unit with project delivery in the development phase.

This dataset visualizes secondary road flooding potential along the North Carolina coast at various inundation depth levels above 0 ft (NAVD88).

Description

The NCDOT Coastal Inundation Points (Secondary Roadways) dataset is a statewide point layer containing secondary road flooding potential along the North Carolina coast. This is measured for various flood recurrence intervals measured as depth levels above 0 ft.

The layer is used to help understand road elevations in relation to flood events/inundation to help with planning, mitigation and emergency response. It allows ATLAS users to understand road elevations in relation to a project.This data is not meant to represent real-time forecasting or surge modeling.

The dataset comprises points every 50 feet along primary roads.

Points were generated every 50 feet along coastal secondary roads. Each point was assigned a road elevation from a LiDAR-based road elevation dataset provided by NC Emergency Management. Inundation extents were identified by extracting raster cells less than or equal to the desired inundation profile from LiDAR-based high-resolution digital elevation rasters. If a road point fell within the inundation area of a given profile, the water surface elevation was subtracted from the road elevation to determine whether the road flooded and, if so, to what degree. This methodology does not factor in hydraulic connectivity to waterbodies and is not based on mathematical storm surge models. Areas of open water are not included in inundation mapping.

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.

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 -78.747503 **East** -75.419564
North 36.588580 **South** 33.798467

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, inlandWaters, location, transportation, environment

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS North Carolina

THESAURUS ►
TITLE User
CREATION DATE 2022-02-08 00:00:00
PUBLICATION DATE 2022-03-31 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS interstates, highways, flooding, transportation, Eastern Seaboard, Atlantic Coast, resiliency, coastal, hurricanes, inundation, rivers, streams, East Coast, Hydraulics, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ►
TITLE User
CREATION DATE 2022-02-08 00:00:00
PUBLICATION DATE 2022-03-31 00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ►

TITLE NCDOT Coastal Inundation Points (Secondary Roadways), March 2022 - NC Department of Transportation
CREATION DATE 2022-02-08 00:00:00
PUBLICATION DATE 2022-03-31 00:00:00

PRESENTATION FORMATS digital map

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
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

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

ADDRESS
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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
DELIVERY POINT 1000 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
COUNTRY US
E-MAIL ADDRESS 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.

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
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
WEST LONGITUDE -84.330352
EAST LONGITUDE -75.419514
SOUTH LATITUDE 33.744722
NORTH LATITUDE 36.589925
EXTENT CONTAINS THE RESOURCE Yes

EXTENT
DESCRIPTION
Data collection is complete.

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE

WEST LONGITUDE -84.125201
EAST LONGITUDE -75.426058
SOUTH LATITUDE 33.829738
NORTH LATITUDE 36.556356
EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT
BEGINNING DATE 2022-02-08 00:00:00
ENDING DATE 2022-02-08 00:00:00

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -78.747503
* EAST LONGITUDE -75.419564
* NORTH LATITUDE 36.588580
* SOUTH LATITUDE 33.798467
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE 2076680.131192
* EAST LONGITUDE 3051815.071893
* SOUTH LATITUDE 35984.006800
* NORTH LATITUDE 1033284.308142
* 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
VOICE 919-707-6136

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Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance ►

RESOURCE MAINTENANCE
UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS
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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

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CONSTRAINTS
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 18939.39393939394
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.00052800000000000004
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 CoastalInundationPointsSecondaries
* OBJECT TYPE point
* OBJECT COUNT 15571963

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►
FEATURE CLASS NAME CoastalInundationPointsSecondaries
* FEATURE TYPE Simple
* GEOMETRY TYPE Point
* HAS TOPOLOGY FALSE
* FEATURE COUNT 15571963
* 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

A contractor created the layer using numerous manual and automated checks as well as QA/QC of the layers used in creation and the final product by NCDOT personnel. The original layers had gone through the normal process from NC Emergency Management to assure quality.

EVALUATION METHOD

Pass

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2022-02-08 00:00:00

PUBLICATION DATE 2022-03-31 00:00:00

Hide Product specification ▲

Hide Data quality report - Quantitative attribute accuracy ▲

Hide Data Quality ▲

Lineage ►

LINEAGE STATEMENT

Points were generated every 50 feet along secondary roads.
Each point was assigned a road elevation from a LiDAR-based road elevation dataset provided by NC Emergency Management.
If a road point fell within the greatest floodplain extent (100-yr or 500-yr), the water surface elevation was subtracted from the road elevation to determine whether the road flooded and, if so, to what degree.
Bridges, overpasses, and areas of open water are not included in this dataset.
Roads that were analyzed but did not have inundation impacts are not included in this dataset.
Analysis is based on NCDOT's 2021 Q2 road network and 2014-2018 LiDAR.

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

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

HOURS OF SERVICE

9:00am – 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

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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

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PHONE
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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
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 CoastalInundationPointsSecondaries ►
* TYPE Feature Class
* ROW COUNT 15571963
DEFINITION
Secondary Road flooding potential along the North Carolina coast

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 Division ►
* ALIAS Division
* DATA TYPE SmallInteger
* WIDTH 2
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
The NCDOT highway division number.

DESCRIPTION SOURCE
NCDOT

Hide Field Division ▲

FIELD RouteID ►
* ALIAS RouteID
* DATA TYPE String
* WIDTH 20
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
An 11-digit route identifier, derived from NCDOT's NCRoutes feature class.

DESCRIPTION SOURCE
NCDOT

Hide Field RouteID ▲

FIELD RouteClass ►
* ALIAS RouteClass
* DATA TYPE String
* WIDTH 5
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
The route classification, derived from NCDOT's NCRoutes feature class. A value of 1 is an interstate. A value of 2 is a U.S. route. A value of 3 is an NC route. Larger values are secondary routes.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE 1
DESCRIPTION Interstate
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 2
DESCRIPTION US Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 3
DESCRIPTION NC Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 4
DESCRIPTION Secondary Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 5
DESCRIPTION Non-System
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 6
DESCRIPTION Other State Agency Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 7
DESCRIPTION Federal Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 80
DESCRIPTION Ramp
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field RouteClass ▲

FIELD RouteName ►
* ALIAS RouteName
* DATA TYPE String
* WIDTH 20
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
The route name, derived from NCDOT's NCRoutes feature class.

DESCRIPTION SOURCE
NCDOT

Hide Field RouteName ▲

FIELD County ►
* ALIAS County
* DATA TYPE String
* WIDTH 20
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
The name of the North Carolina county the point is located in.

DESCRIPTION SOURCE
NCDOT

Hide Field County ▲

FIELD RoadElev ►
ALIAS RoadElevation

* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

The LiDAR-based elevation of the road at the point location.

DESCRIPTION SOURCE

NCDOT

Hide Field RoadElev ▲

FIELD WSE ►

* ALIAS WSE
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

The water surface elevation (WSE) associated with the inundation profile, relative to 0 ft (NAVD88). Units are in NAVD88 feet.

DESCRIPTION SOURCE

NCDOT

Hide Field WSE ▲

FIELD EvacRt ►

* ALIAS EvacuationRoute
* DATA TYPE String
* WIDTH 5
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Whether the route is an established evacuation route from coastal areas to I-95 inland. Evacuation routes can accommodate heavy traffic volumes and higher speeds.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Y
DESCRIPTION Yes
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N
DESCRIPTION No
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field EvacRt ▲

FIELD Depth ►

* ALIAS Depth
* DATA TYPE Double
* WIDTH 8
* PRECISION 0

* SCALE 0
FIELD DESCRIPTION
The depth of flooding on top of the road, in feet. If the road elevation is 2 ft and the inundation profile is 5 ft, then the depth of water on the road would be 3 ft.

DESCRIPTION SOURCE
NCDOT

Hide Field Depth ▲

FIELD DepthCat ►
* ALIAS DepthCat
* DATA TYPE SmallInteger
* WIDTH 2
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Categorizes depth values based on their severity, ranging from 1 to 4. A value of 1 represents minimal flooding, 0.1 to 0.5 ft, which may permit continued use of the road. A value of 2, for 0.5 to 2 ft of flooding, represents severe flooding that would bar passage for most vehicles. A value of 3, for 2 to 5 ft of flooding, denotes roads impassable to all but military and emergency response vehicles. A value of 4 represents heavy flooding, over 5 ft, which renders the road impassable for all vehicles.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE 1
DESCRIPTION Minimal flooding, 0.1 to 0.5 ft of flooding, may permit continued use of the road.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 2
DESCRIPTION 0.5 to 2 ft of flooding, severe flooding that would bar passage for most vehicles.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 3
DESCRIPTION 2 to 5 ft of flooding, roads impassable to all but military and emergency response vehicles.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 4
DESCRIPTION Heavy flooding, over 5 ft, renders the road impassable for all vehicles.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field DepthCat ▲

Hide Details for object CoastalInundationPointsSecondaries ▲

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 2024-01-26

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

CREATED IN ARCGIS FOR THE ITEM 2024-02-01 14:00:44
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-26 10:47:15

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-01-26 10:47:15

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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MAINTENANCE
UPDATE FREQUENCY as needed

OTHER MAINTENANCE REQUIREMENTS
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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 ▲

Hide Metadata Maintenance ▲

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.

CONSTRAINTS

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