

Eastern Black Rail Potential Habitat, November 2023 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Eastern black rail, *Laterallus jamaicensis jamaicensis*, Late_jama, bird, threatened, GIS-based model, expert model, Transportation, NRTR, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in July 2023 as part of the Project ATLAS initiative at NCDOT to support the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit with project delivery in the development phase.

This model identifies year-round potential suitable habitat for Eastern Black Rail. Model output is binary, and includes the USFWS species range, excluding historic counties. The species model range is split between "High" and "Low" potential habitat. "High potential habitat" represents GIS based layer areas deemed suitable habitat, and "Low potential habitat" represents areas identified as areas deemed low quality or non-habitat.

The Optimal survey window for Eastern Black Rail is: April 1 – June 30.

This dataset supports the production of the Natural Resources Technical Report (NRTR). This dataset also contains information that may assist biologists in preparing background information for field surveys, in order to address protected species for Threatened & Endangered Species Survey Reports, and/or Biological Assessments.

Description

The Eastern Black Rail Potential Habitat dataset is a polygon layer depicting high and low potential habitat locations for Eastern black rail in NC counties that have a USFWS "current" status listing.

The Eastern Black Rail (*Laterallus jamaicensis jamaicensis*) is one of the four recognized subspecies of black rail and is the only subspecies that occurs along the Atlantic coast of the United States. Habitats used by the Eastern Black Rail along the southern Atlantic coast includes impounded and unimpounded marshes, which can be tidally or non-tidally influenced and range in salinity from salt to fresh. Nests may be built within the marsh or along the edge and hidden within dense vegetation. Black Rails are extremely secretive and seldom seen. While some vocalizations occur at dusk, they are often only heard calling at night, when they vocalize at all. Eastern Black Rails are year-round residents in North Carolina.

Additional Species Information

There were 14 black rail National Heritage Program (NHP) records listed as current in the January 2018 NHP data.

County Information

- NHP listed counties: Carteret, Craven, Currituck, Dare, Hyde, New Hanover, Onslow, Pamlico

- FWS listed counties as 'current': Brunswick, Beaufort, Camden, Carteret, Craven, Currituck, Dare, Duplin, Hyde, Jones, Lenoir, New Hanover, Onslow, Pamlico, Pender, Pitt, Tyrrell

- Additions proposed by reviewers: NA

For more information please click here <https://xfer.services.ncdot.gov/gisdot/Metadata/Atlas/TechDocs/>

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.

Credits

The Environmental Analysis Unit (EAU) Mitigation and Modeling Unit within NCDOT was tasked to create this dataset. This dataset supports the production of the Natural Resources Technical Report (NRTR). Annual maintenance of this dataset is handled by the EAU.

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

Use limitations

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Extent

West -78.651300 **East** -75.417239

North 36.589755 **South** 33.795668

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 biota, geoscientificInformation, 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 2023-07-05 00:00:00

PUBLICATION DATE 2023-11-10 00:00:00

[Hide Thesaurus ▲](#)

THEME KEYWORDS Eastern black rail, Laterallus jamaicensis jamaicensis, Late_jama, bird, threatened, GIS-based model, expert model, Transportation, NRTR, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ▶

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[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ▶

TITLE Eastern Black Rail Potential Habitat, November 2023 - NC Department of Transportation

CREATION DATE 2023-07-05 00:00:00

PUBLICATION DATE 2023-11-10 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 resource provider

CONTACT INFORMATION ▶

PHONE

VOICE 919-707-6136

ADDRESS

TYPE

DELIVERY POINT 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 ▲](#)

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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 Environmental Analysis Unit (EAU) Mitigation and Modeling Unit within NCDOT was tasked to create this dataset. This dataset supports the production of the Natural Resources Technical Report (NRTR). Annual maintenance of this dataset is handled by the EAU.

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 2023-07-05 00:00:00

ENDING DATE 2023-07-05 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -78.651300

* EAST LONGITUDE -75.417239

* NORTH LATITUDE 36.589755

* SOUTH LATITUDE 33.795668

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 2105899.336189

* EAST LONGITUDE 3052480.022092

* SOUTH LATITUDE 34987.949904

* NORTH LATITUDE 1033803.838423

* 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 ►

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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

Maintenance of this dataset is handled by the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit. Currently updating this dataset has not been planned. 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 originator

CONTACT INFORMATION ►

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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

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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 3048.0060960121918

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 EasternBlackRailPotentialHabitat
* OBJECT TYPE composite
* OBJECT COUNT 37150

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME EasternBlackRailPotentialHabitat
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 37150
* 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 2023-07-05 00:00:00

PUBLICATION DATE 2023-11-10 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 2023-07-05 00:00:00

PUBLICATION DATE 2023-11-10 00:00:00

[Hide Product specification ▲](#)

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

MEASURE DESCRIPTION

ArcGIS Online (AGOL) Review

- o A model prediction file was shared with select reviewers on ArcGIS Online. Points were placed within the USFWS potential habitat as well as the model potential habitat in order to solicit feedback. Reviewers could place additional comments for consideration by modeler.
- o AGOL review was completed in November 2022 for the draft version of this model

Independent Data Review

- o Describe data sources –natural heritage element occurrence data, natural heritage natural community data, tidal influence zone data
- o Describe methods – Current aerial imagery was used to determine likelihood of habitat.

- Reviewers provided a complete and balanced review. Flags of non-habitat areas were primarily focused on areas where the landcover data or the marsh layers did not match what was viewable on the aerial photography. Most comments were about non-marsh habitats and upland areas showing up as habitat and needed the value to be reversed to non-habitat.
- Reviewers for the most part agreed with the potential habitat. Modelers commented that areas of non-habitat occasionally were included in the model and should be removed. Examples of non-habitat observed by reviewers: maritime forest, forested uplands, non-sandy shorelines or beaches, and developed land.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2023-07-05 00:00:00

PUBLICATION DATE 2023-11-10 00:00:00

Hide Product specification ▲

Hide Data quality report - Quantitative attribute accuracy ▲

Hide Data Quality ▲

Lineage ►

LINEAGE STATEMENT

ArcGIS Model Builder version 10.4.1 was used to build a model .

Layer 1

- Layer name: CountyBoundaryShoreline
- Layer description:
 - o Selected listed counties for black rail.
- Layer selection justification:
 - o Layer is used for county boundaries and shoreline area.
- "Habitat" versus "Nonhabitat" designations:
 - o Layer is used to delineate counties with black rail presence and is not used for habitat determinations. The layer was also used to create an area of low potential habitat within the county boundary but outside of the high potential habitat area.

Layer 2

- Layer name: NLCD Landcover Data 2019

- Layer description:
 - o NLCD 2019 landcover data.
- Layer selection justification:
 - o The NLCD 2019 data was used to select areas of habitat and exclude other non-habitat types.
- “Habitat” versus “Nonhabitat” designations:
 - o Habitat designations for black rail – emergent wetland. All other landcover types excluded for including the model.

Layer 3

- Layer name: nheo_tier2/Data_NHP_Counties
- Layer description:
 - o Tier 2 data acquired from NC Natural Heritage Program (EO records from 2022 data). Data_NHP_Counties is a NHP-created layer with appropriate natural community records [Brackish Marsh (Needlerush Subtype), Brackish Marsh (Salt Meadow Cordgrass Subtype), Brackish Marsh (Smooth Cordgrass Subtype), Salt Marsh (Carolinian Subtype), Tidal Freshwater Marsh (Cattail Subtype), Tidal Freshwater Marsh (Giant Cordgrass Subtype), Tidal Freshwater Marsh (Mixed Freshwater Subtype), Tidal Freshwater Marsh (Needlerush Subtype), and Tidal Freshwater Marsh (Sawgrass Subtype)] from the Tier 2 nheo data (2022) were used to add appropriate natural communities for black rail to the model (used for areas of high potential habitat). The layer was generated by NHP to maintain NHPs control over the data and was provided to ATLAS specifically for modeling.
- Layer selection justification:
 - o 2018 EO records from the nheo layer was incorporated into model with any current black rail records selected and included in final merged output file.
 - o In addition, (2022) nheo natural community layers with appropriate natural communities (Data_NHP_Counties) for black rail were added to the model.

Layer 4

- Layer name: TIZ_2023_complete
- Layer description:
 - o Tidal influence zone area data acquired from NCDOT ATLAS Sweeping Team. A previous version was used in variations of the model during development. An updated version was produced in 2022 that provides a more accurate and higher level of detail than the previous version. The data consisted of approximately 10 sets of localized data that were merged into one overall layer and utilized in the model.
- Layer selection justification:
 - o The layer was used to clip all areas of NLCD emergent marsh and appropriate potential habitat NHP natural community data to an area that is influenced by tides, providing a more accurate range of potential habitat for the black rail model. No areas of “high” potential habitat are included in areas outside of this tidal influence zone.

PROCESS STEP DESCRIPTION

Summary of model steps:

Select tidal and brackish marsh natural communities from NHP data.

Add current NHP records for black rail occurrences.

Select counties from the NC counties layer that align with the current USFWS range for black rail.

Include 2019 NLCD landcover class that could be potential black rail habitats (emergent marsh) along with NHP records to create an area of “high” potential habitat.

Merge and clip to black rail counties that align with USFWS range for black rail. Erase the combined model “high” potential habitat area from the rest of the black rail county boundaries to create an area of “high” and “low” potential habitat.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 919-707-6136

ADDRESS

TYPE

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

DELIVERY POINT 1020 Birch Ridge Drive

E-MAIL ADDRESS ATLAS@ncdot.gov

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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.

PROCESS CONTACT

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[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 originator

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[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

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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 [EasternBlackRailPotentialHabitat ►](#)

* TYPE Feature Class

* ROW COUNT 37150

DEFINITION SOURCE

North Carolina Natural Heritage Program

DEFINITION

Potential Habitat areas for Eastern Black Rail in NC

FIELD [OBJECTID_1 ►](#)

* 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_1 ▲

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 PotHabitat ►

- ALIAS PotHab
- * DATA TYPE String
- * WIDTH 25
- * PRECISION 0
- * SCALE 0
- DESCRIPTION SOURCE
NCDOT

FIELD DESCRIPTION
Model Output - Low or High potential habitat

LIST OF VALUES
VALUE High
DESCRIPTION High Potential
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Low
DESCRIPTION Low Potential
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field PotHabitat ▲

FIELD SciName ►

- ALIAS SName
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0
- DESCRIPTION SOURCE
NCDOT

FIELD DESCRIPTION

Scientific Name of Species

Hide Field SciName ▲

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 ▲

FIELD CommonName ►

ALIAS CName

* DATA TYPE String

* WIDTH 100

* PRECISION 0

* SCALE 0

DESCRIPTION SOURCE

NCDOT

FIELD DESCRIPTION

Common Name of Species

Hide Field CommonName ▲

[Hide Details for object EasternBlackRailPotentialHabitat ▲](#)

[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 2024-01-25

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 14:10:34
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-25 14:32:34

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-01-25 14:32:34

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2020-04-17 11:00:31
FROM C:\Data_Distribution\nheo\nheo_tier_2
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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

TYPE
DELIVERY POINT 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 ▲](#)

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Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

OTHER MAINTENANCE REQUIREMENTS

Maintenance of this dataset is handled by the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit. 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
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Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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CONSTRAINTS

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