

Neuse River Waterdog - Identified Stream Reaches for Programmatic Agreement, October 2021 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Neuse River Waterdog, *Necturus lewisi*, Carolina Mudpuppy, Neuse River, Tar River, Endangered Species Act, threatened, amphibian, aquatic, programmatic, bridge / culverts replacement, repair and rehabilitation, Divisions 2/4/5/7, mitigation payment, USFWS identified stream reach, USFWS, Neuse River Basin, Tar River Basin, Biota, Boundaries, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was made available 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. Data is current as of September 2019.

This dataset contains USFWS identified stream reaches for the Neuse River Waterdog. This dataset was created by USFWS to highlight areas of known or potential species occurrence that could trigger consultation under the ESA, as part of a programmatic bridge/culvert consultation agreement between USFWS and NCDOT/FHWA/USACE.

Please read the programmatic conference opinion for applicability of bridge replacement, repair and rehabilitation projects and reference Appendix B1 for Section 7 Programmatic Process .

https://connect.ncdot.gov/resources/Environmental/EAU/BSG/Documents/Neuse%20River%20Waterdog%20&%20Carolina%20Madtom%20Programmatic/20200506_Final_PCO_CMT_NRWD.pdf

Description

The Neuse River Waterdog Identified Stream Reaches dataset is a polyline layer depicting streams with historical / known / potential in the Neuse and Tar River basins for Neuse River Waterdog.

The Neuse River Waterdog (*Necturus lewisi*) is a permanently aquatic salamander. It can grow up to 11 inches long. It has a reddish brown body with an irregular pattern of large blue or black spots. The waterdog has a laterally compressed tail the same coloration as the body; however, the belly is typically a dull brown or gray color with spots similar to those seen elsewhere on the body. Adult Neuse River Waterdogs have elongated heads with squared-off noses, cylindrical trunks, and tails that are laterally compressed and ridged. Three dark-red, bushy gills project from either side of the head and a dark line runs through the eye. The skin is smooth, slimy and a light rusty brown color, with the belly being a paler brown or grayish. There are dark brown or blackish spots throughout the surface that are smaller on the underside. The limbs are rather small, and the front and hind feet have four toes each (unlike most salamanders, which have five toes on each back foot).

The dataset is linear stream features depicting historical/known/potential habitat for listed/proposed species, as of 2019. Use of these datasets is solely for the use as part of the decision process for the Programmatic bridge/culvert consultation agreement between USFWS and NCDOT/FHWA/USACE. These datasets are intended to be updated annually and provided to NCDOT personnel for use in the decision process for the Programmatic bridge/culvert consultation agreement between USFWS and NCDOT/FHWA/USACE.

These datasets were created for the sole purpose of informing the decision process for the Programmatic bridge/culvert consultation agreement between USFWS and NCDOT/FHWA/USACE. These data sets do not

replace Heritage element occurrence data, NCWRC PAWS data, nor other USFWS publicly available species occurrence or habitat data.

Credits

The USFWS Raleigh Ecological Service's Aquatic Biologist was tasked to create this dataset as part of the Programmatic bridge/culvert consultation agreement between USFWS and NCDOT/FHWA/USACE.

Annual maintenance of this dataset is handled by the USFWS Raleigh Ecological Service who sends datasets to the Biological Surveys Group within NCDOT.

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 -79.193085 **East** -77.040983
North 36.403049 **South** 34.975547

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, boundaries, 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 2019-09-27 00:00:00
PUBLICATION DATE 2021-10-15 00:00:00

[Hide Thesaurus ▲](#)

THEME KEYWORDS Neuse River Waterdog, Necturus lewisi, Carolina Mudpuppy, Neuse River, Tar River, Endangered Species Act, threatened, amphibian, aquatic, programmatic, bridge / culverts replacement, repair and rehabilitation, Divisions 2/4/5/7, mitigation payment, USFWS identified stream reach, USFWS, Neuse River Basin, Tar River Basin, Biota, Boundaries, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ▶

TITLE User

CREATION DATE 2019-09-27 00:00:00
PUBLICATION DATE 2021-10-15 00:00:00

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Neuse River Waterdog - Identified Stream Reaches for Programmatic Agreement, October 2021 - NC Department of Transportation

CREATION DATE 2019-09-27 00:00:00
PUBLICATION DATE 2021-10-15 00:00:00

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME USFWS Raleigh Ecological Service
CONTACT'S POSITION Aquatic Biologist
CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE
VOICE 919-856-4520

ADDRESS

TYPE physical
DELIVERY POINT 551-F Pylon Dr
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27606
COUNTRY US
E-MAIL ADDRESS sarah_mcrae@fws.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 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

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RESPONSIBLE PARTY

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CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

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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 USFWS Raleigh Ecological Service's Aquatic Biologist was tasked to create this dataset as part of the Programmatic bridge/culvert consultation agreement between USFWS and NCDOT/FHWA/USACE.

Annual maintenance of this dataset is handled by the USFWS Raleigh Ecological Service who sends datasets to the Biological Surveys Group within NCDOT. 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 2019-06-26 00:00:00

ENDING DATE 2019-06-26 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -79.193085

* EAST LONGITUDE -77.040983

* NORTH LATITUDE 36.403049

* SOUTH LATITUDE 34.975547

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 1943170.740715

* EAST LONGITUDE 2576655.569543

* SOUTH LATITUDE 451621.471950

* NORTH LATITUDE 965630.347802

* 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 annually

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

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MAINTENANCE CONTACT

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CONTACT'S ROLE point of 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

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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",2000000.0026166666],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 NeuseRiverWaterDog

* OBJECT TYPE composite

* OBJECT COUNT 2069

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME NeuseRiverWaterDog

* FEATURE TYPE Simple

* GEOMETRY TYPE Polyline

* HAS TOPOLOGY FALSE

* FEATURE COUNT 2069

* 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 **2019-09-27 00:00:00**
PUBLICATION DATE **2021-10-15 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 **2019-09-27 00:00:00**
PUBLICATION DATE **2021-10-15 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 2019-09-27 00:00:00

PUBLICATION DATE 2021-10-15 00:00:00

Hide Product specification ▲

Hide Data quality report - Quantitative attribute accuracy ▲

Hide Data Quality ▲

Lineage ▶

LINEAGE STATEMENT

Base data layers:

-major_hydro-1m (GCS_North American_1983)

-hydro24k_arc (GCS_North American_1983)

-HUC10 watersheds

major_hydro-1m (GCS_North American_1983) -- http://data-ncdenr.opendata.arcgis.com/datasets/2a5324f732bb44d9a1ca29f1c17370ee_0

hydro24k_arc (GCS_North American_1983) -- https://gis11.services.ncdot.gov/arcgis/rest/services/NCDOTApp_ESM/NCDOT_24kHydro/MapServer

HUC10 watersheds -- <http://data-ncdenr.opendata.arcgis.com/datasets/dwr-10-digit-huc-watersheds>

Species data layer was created by initially selecting stream segments (hydrology) that overlapped NC Natural Heritage Element Occurrence (EO) polygons for each species, then connecting stream segments between EOs, and extending stream segments to headwaters. HUC10 watersheds were then selected based on whether they contained species stream segments.

PROCESS STEP ▶

DESCRIPTION

Data was downloaded as a shapefile. Features for NC were exported out and converted to a geodatabase.

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

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DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

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POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS ATLAS@ncdot.gov

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

Linear data was reviewed in ESRI's Data Reviewer tool to verify geometry.

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 ►

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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

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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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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 [NeuseRiverWaterDog ►](#)

* TYPE Feature Class

* ROW COUNT 2069

DEFINITION

Areas of known occurrence for the Neuse River Waterdog

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 DWQNAME ►

- * ALIAS DWQName
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION
DEQ Stream Name

DESCRIPTION SOURCE
USFWS

[Hide Field DWQNAME ▲](#)

FIELD StreamName ►

- * ALIAS StreamName
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION
Name of Stream where Neuse River Water Dog is found

DESCRIPTION SOURCE
NCDOT

[Hide Field StreamName ▲](#)

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 ▲](#)

[Hide Details for object NeuseRiverWaterDog ▲](#)

[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
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139
METADATA STYLE ISO 19139 Metadata Implementation Specification

CREATED IN ARCGIS FOR THE ITEM 2024-02-01 14:13:08
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-26 19:02:00

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-01-26 19:02:00

[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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[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY annually

OTHER MAINTENANCE REQUIREMENTS

Annual maintenance of this dataset is handled by the USFWS Raleigh Ecological Service who sends datasets to the Biological Surveys Group within NCDOT.

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

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[Hide Contact information ▲](#)

[Hide Metadata Maintenance ▲](#)

Metadata Constraints ▶

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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CONSTRAINTS

LIMITATIONS OF USE

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