NC ATLAS Hydrography (Abridged) Version 1.4, December 2021 -NC Department of Transportation

File Geodatabase Feature Class



Tags

North Carolina, Hydrography, streams, rivers, waters, shorelines, lakes, ponds, Headwater Streams Spatial Dataset, HSSD, Quality Level 1/2 (QL1/2), Light Distance and Ranging (LiDAR), water quality, water classifications, Coastal Waters, Joint Waters, Inland Waters, Eastern Brook Trout Joint Venture, EBTJV, Hydrologic Units

Summary

This dataset was originally created in June 2019 and updated in December 2021 as part of the Project ATLAS initiative at NCDOT to support the Sweeping Environmental group with project delivery in the development phase. This dataset provides an understanding of the location and various regulatory considerations of water resources which is a critical part of transportation planning, and must be considered for all phases of planning, permitting, and construction activities.

Description

The ATLAS Hydrography Version 1.4 (Abridged) dataset is a statewide polyline layer depicting location and various regulatory considerations of water resources with respect to transportation planning. This is the abridged version of the ATLAS Hydrography layer containing lesser attribute data.

This data is current as of December 2021 and is not the officially adopted layer for the state of NC but supports NCDOT in the generation of following reports:

- General Planning,
- NRTR generation (location of water resources, name/index numbers of waters, water quality classifications, impaired waters, NCWRC trout waters, USACE stream habitat temperature, bald eagle habitat),
- Permitting (Section 10 permitting, Section 404 permitting, Section 401 permitting, Individual permitting, stream location, USACE jurisdiction, NC Division of Coastal Management (NCDCM) jurisdiction, water quality classifications).

Streams data are used in various other reports that the Sweeping Environmental group is not involved with, i.e., Protected Species modeling, NCDOT hydraulics studies etc.

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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. The dataset supports the production of the following:

• General Planning,

• NRTR generation (location of water resources, name/index numbers of waters, water quality classifications, impaired waters, NCWRC trout waters, USACE stream habitat temperature, bald eagle habitat),

• Permitting (Section 10 permitting, Section 404 permitting, Section 401 permitting, Individual permitting, stream location, USACE jurisdiction, NC Division of Coastal Management (NCDCM) jurisdiction, water quality classifications).

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
 -84.421600
 East
 -75.416491

 North
 36.620015
 South
 33.700957

 Scale
 Bange
 South
 33.700957

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, oceans, environment, transportation, location, inlandWaters

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

PLACE KEYWORDS North Carolina

 THESAURUS
 TITLE

 TITLE
 User

 CREATION DATE
 2019-07-22
 00:00:00

 PUBLICATION DATE
 2021-12-01
 00:00:00

Hide Thesaurus

THEME KEYWORDS North Carolina, Hydrography, streams, rivers, waters, shorelines, lakes, ponds, Headwater Streams Spatial Dataset, HSSD, Quality Level 1/2 (QL1/2), Light Distance and Ranging (LiDAR), water quality, water classifications, Coastal Waters, Joint Waters, Inland Waters, Eastern Brook Trout Joint Venture, EBTJV, Hydrologic Units, Biota, Environment, Location, Oceans, Transportation

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Hide Thesaurus

Citation **>**

TITLE NC ATLAS Hydrography (Abridged) Version 1.4, December 2021 - NC Department of Transportation CREATION DATE 2019-07-22 00:00:00 PUBLICATION DATE 2021-12-01 00:00:00

EDITION Version 1.3 EDITION DATE 2020-04-30

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 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

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 **A**

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

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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. The dataset supports the production of the following:

• General Planning,

• NRTR generation (location of water resources, name/index numbers of waters, water quality classifications, impaired waters, NCWRC trout waters, USACE stream habitat temperature, bald eagle habitat),

• Permitting (Section 10 permitting, Section 404 permitting, Section 401 permitting, Individual permitting, stream location, USACE jurisdiction, NC Division of Coastal Management (NCDCM) jurisdiction, water quality classifications).

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 -84.4216 EAST LONGITUDE -75.416491 SOUTH LATITUDE 33.700957 NORTH LATITUDE 36.620015 EXTENT CONTAINS THE RESOURCE Yes TEMPORAL EXTENT BEGINNING DATE 2021-12-01 00:00:00 ENDING DATE 2021-12-01 00:00:00 EXTENT **GEOGRAPHIC EXTENT** BOUNDING RECTANGLE EXTENT TYPE Extent used for searching * WEST LONGITUDE -84.421600 * EAST LONGITUDE -75.416491 * NORTH LATITUDE 36.620015 * SOUTH LATITUDE 33.700957 * EXTENT CONTAINS THE RESOURCE Yes EXTENT IN THE ITEM'S COORDINATE SYSTEM * WEST LONGITUDE 407037.415678 * EAST LONGITUDE 3052308.812461 * SOUTH LATITUDE 24189.308443 * NORTH LATITUDE 1044630.001810

* 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 PHONE

VOICE 919-707-6136

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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

Annual maintenance of this dataset is handled by the State Wide Expansive Environmental Program (SWEEP) group. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit. Updates to LiDAR-derived waters and shorelines are expected to be captured yearly through the regular 5-phase collection cycle. Improvements to models should be incorporated regularly as they are developed.

MAINTENANCE 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

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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

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Hide Contact information **A**

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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CONSTRAINTS

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Hide Resource Constraints **A**

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 0.0032808333333333333 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_19 83",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],P ARAMETER["False_Easting", 2000000.002616666], PARAMETER["False_Northing", 0.0], PARAMETER["Cen tral Meridian",-79.0], PARAMETER["Standard_Parallel_1", 34.33333333333333334], PARAMETER["Standard_Parallel_2", 36. 16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],A UTHORITY["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 NCAtlasHydrographyAbridged
- * OBJECT TYPE composite
- * OBJECT COUNT 1593176

Hide Vector

ARCGIS FEATURE CLASS PROPERTIES FEATURE CLASS NAME NCAtlasHydrographyAbridged

- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polyline
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 1593176
- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING FALSE

Hide ArcGIS Feature Class Properties

Hide Spatial Data Properties



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 2019-07-22 00:00:00 PUBLICATION DATE 2021-12-01 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 2019-07-22 00:00:00 PUBLICATION DATE 2021-12-01 00:00:00

Hide Product specification **A**

Hide Data quality report - Conceptual consistency

MEASURE DESCRIPTION

A visual quality control (QC) check was performed to ensure that no HSSD stream line segments flow in and out of open water areas multiple times. The HU10 data was then combined into HU8 level datasets and checked for connectivity at HU8 boundaries (edge-matching). Topology checks were run to ensure there were no overlaps or discontinuities within the streams dataset or in the separate Artificial Paths dataset. 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 2019-07-22 00:00:00 PUBLICATION DATE 2021-12-01 00:00:00

Hide Product specification A

Hide Data quality report - Quantitative attribute accuracy

Hide Data Quality 🔺

Lineage 🕨

LINEAGE STATEMENT

ATLAS Hydrography utilizes three sets of source data: *Hydrographic break lines generated derived from the Quality Level (QL) 1/QL2 Light Distance and Ranging (LiDAR) data collected by the NC Department of Emergency Management (NC EM), *NC Floodplain Mapping Program (NCFMP) data,

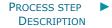
*and Headwater Streams Spatial Dataset (HSSD) linework.

For the purposes of ATLAS, FMP terrain data was incorporated into the HSSD model process to produce a seamless approximation of NCFMP hydrography combined with the HSSD. HSSD/NCFMP-sourced stream reaches were intersected with the hydrographic break lines dataset (double line streams greater than 200 feet in width and waterbodies greater than 2 acres) derived from the QL1/QL2 LiDAR to remove the HSSD stream line segments inside open waters. These HSSD stream segments were clipped and exported to a separate dataset representing artificial paths for future use. The hydrographic break lines were then inserted to create a seamless stream and open water dataset more representative of real-world hydrological features.

Update for April 2020: -Updated alias fields that provide an understandable description of the fields,

Update for December 2021: Abridged Hydro field was renamed as per NCDEQ data updates.

-Renamed fields: IRpt2018Cmt



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 - 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

Hours of service 9:00am – 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

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Hide Contact information

Hide Process step ▲

PROCESS STEP

DESCRIPTION

Attributes from several NCDEO water quality datasets were compiled into a single table using their common and unique attribute, the assessment unit number (AU_Number). The attributes were then transferred to the geometry of the corresponding main stem's stream lines using a spatial join process. This process was again automated using ArcGIS Model Builder. A visual QC followed to check for streams that were: 1) incorrectly attributed, 2) were not attributed but should have been, and 3) streams that were attributed and should not have been. To satisfy the requirement that a tributary carries the attributes of the stream it drains into, a series of processes using buffers and spatial joins were applied to all tributaries flowing into the main stem line segments described above. The remaining tributaries (those flowing outside the state) were attributed with the receiving waterbody name and state abbreviation. Their classification fields AU_Class and BIMS_Class were coded as "C" in accordance with NCDEQ guidelines. Additional attributes not related to NCDEQ AU numbers were joined to the appropriate hydrography lines, including US Army Corps of Engineers Stream Habitat Temperature (cold, cool, and warm), NC Division of Coastal Management (NCDCM) and NC Wildlife Resource Commission (NCWRC) Coastal, Joint, and Inland fishing waters designations, and NCWRC Eastern Brook Trout Joint Venture (EBTJV) data. These data are intended to satisfy the needs of the NCDOT for additional water resource planning, including identification of jurisdiction and moratoria considerations.

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

CONTACT INFORMATION PHONE VOICE 919-707-6136

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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 - 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

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Hide Process step ▲

PROCESS STEP DESCRIPTION

This process was completed at the Hydrologic Unit 10 (HU10) level and was automated using ArcGIS Model Builder. A visual quality control (QC) check was performed to ensure that no HSSD stream line segments flow in and out of open water areas multiple times. The HU10 data was then combined into HU8 level datasets and checked for connectivity at HU8 boundaries (edge-matching). Topology checks were run to ensure there were no overlaps or discontinuities within the streams dataset or in the separate Artificial Paths dataset.

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Hide Contact information **A**

Hide Process step ▲

Hide Lineage



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 NCAtlasHydrographyAbridged
```

- * TYPE Feature Class
- * ROW COUNT 1593176

DEFINITION

Water lines depicting location and various regulatory considerations of water resources in the state of NC with respect to transportation planning.

DEFINITION SOURCE

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 AUNumber ALIAS NCDEQAssessmentUnitNumber * DATA TYPE String * WIDTH 50

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Unique assessment unit number based on the BIMS Index number. It is a unique identifier of a waterbody in NC. All named and some unnamed streams have an AU Number.

DESCRIPTION SOURCE

Hide Field AUNumber

FIELD AUDrainTo ►

ALIAS AUNumberOfReceivingWaters

* DATA TYPE String

* WIDTH 50

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

AU number of receiving waters (for all tributaries with no AU designation)

DESCRIPTION SOURCE NCDOT

Hide Field AUDrainTo ▲

FIELD AUName ALIAS NCDEQAssessmentUnitName * DATA TYPE String * WIDTH 254 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION

NC name (not always an exact match with GNIS) usually from the US Geological Survey Topo maps.

DESCRIPTION SOURCE NCDEQ

Hide Field AUName

FIELD IRC ALIAS IntegratedReportingCategory(IRC) * DATA TYPE String * WIDTH 254 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Integrated Reporting Category assigned by parameter of interest (see field) and assessment criteria status (see field) (NRTR required value) **DESCRIPTION SOURCE** NCDEQ LIST OF VALUES VALUE 1 **DESCRIPTION** Meeting Criteria ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 1b DESCRIPTION Meeting Criteria-a management strategy in place for parameter ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 1f DESCRIPTION Meeting Criteria-Fish tissue collected in Assessment Unit with no advisories other than statewide Mercury advice ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 1i DESCRIPTION Meeting Criteria-Parameter assessed is addressed by a TMDL for a different parameter ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 1nc DESCRIPTION Meeting Criteria-Parameter assessed was exceeding some criteria but it was determined that the exceedances were due to natural conditions (documentation required) ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 1r DESCRIPTION Meeting Criteria-Parameter assessed was meeting criteria and there are ongoing restoration activities ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 1t DESCRIPTION Meeting Criteria-Parameter assessed was meeting criteria and there is an approved TMDL in place for the parameter ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 3a **DESCRIPTION** Data Inconclusive ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 3b DESCRIPTION Data Inconclusive- management strategy in place for parameter ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 3C DESCRIPTION Data Inconclusive- non-pollutant ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 3i DESCRIPTION Data Inconclusive-Parameter assessed is addressed by a TMDL for a different parameter ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

VALUE 3r DESCRIPTION Data Inconclusive- ongoing restoration activities in place to address parameter ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 3t DESCRIPTION Data Inconclusive- approved TMDL in place for parameter ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 3V DESCRIPTION Data Inconclusive- exceedance due to permitted facility with a variance ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 3z1 DESCRIPTION Data Inconclusive-Data not assessed against a NC water quality standard ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 3z2 DESCRIPTION Data Inconclusive-No data or information to make assessment ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 4b DESCRIPTION Exceeding Criteria- management strategy in place for parameter ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 4C **DESCRIPTION** Exceeding Criteria- non-pollutant ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 4CS DESCRIPTION Exceeding Criteria- Shellfish growing area- not approved. Approved fecal coliform bacteria TMDL assessed in category 4t ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 4i DESCRIPTION Exceeding Criteria- Parameter assessed is addressed by a TMDL for a different parameter ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 4r DESCRIPTION Exceeding Criteria- ongoing restoration activities in place to address parameter. Also for restoration parameters without water quality standards ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 4s DESCRIPTION Exceeding Criteria- another aquatic life parameter is assessed in category 4 or 5. For biological assessments only ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 4t DESCRIPTION Exceeding Criteria- approved TMDL ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 4v DESCRIPTION Exceeding Criteria- exceedance due to permitted facility with a variance ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 5 DESCRIPTION Exceeding Criteria- no approved TMDL in place for assessed parameter ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018 VALUE 5e DESCRIPTION EPA listed the assessment based on EPA guidance not NC methodology

VALUE 5r

DESCRIPTION Exceeding Criteria- no approved TMDL restoration plans and activities ongoing ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

Hide Field IRC ▲

FIELD POI

ALIAS IRCParameterOfInterest * DATA TYPE String * WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Parameter of Interest - Included are: Parameter, Standard for that parameter, Standard type and Area where this standard is applicable

(NRTR required value)

DESCRIPTION SOURCE

NCDEQ

Hide Field POI ▲

FIELD BIMSClass

ALIAS BIMSWaterQualityClassification(s) * DATA TYPE String * WIDTH 254 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Water quality classification(s) Basinwide Information Management System (NRTR required value) **DESCRIPTION SOURCE** NCDEQ LIST OF VALUES VALUE B DESCRIPTION Primary Recreation, Fresh Water ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE C DESCRIPTION Aquatic Life, Secondary Recreation, Fresh Water ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE CA **DESCRIPTION** Critical Area ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE HQW **DESCRIPTION** High Quality Waters ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE N/A DESCRIPTION Not Applicable/Out of State ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE NSW **DESCRIPTION** Nutrient Sensitive Waters ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE ORW **DESCRIPTION** Outstanding Resource Waters ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEO VALUE SA DESCRIPTION Market Shellfishing, Salt Water ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE SB **DESCRIPTION** Primary Recreation, Salt Water ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE SC DESCRIPTION Aquatic Life, Secondary Recreation, Salt Water ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE SW **DESCRIPTION** Swamp Waters ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE Tr **DESCRIPTION** Trout Waters ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE UWL **DESCRIPTION** Unique Wetland ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE FWS **DESCRIPTION** Future Water Supply Waters ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE WS-I **DESCRIPTION** Water Supply I - Natural ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE WS-II **DESCRIPTION** Water Supply II - Undeveloped ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE WS-III DESCRIPTION Water Supply III - Moderately Developed ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE WS-IV DESCRIPTION Water Supply IV- Highly Developed ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE WS-V **DESCRIPTION** Water Supply V - Upstream ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ VALUE +, @, #, * **DESCRIPTION** Special Designations ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

Hide Field BIMSClass

FIELD DSContArea

ALIAS HSSDDrainageAreaAtDownstreamEndOfLink

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

FIELD DESCRIPTION

Drainage area at the downstream end of the link in sq ft.

DESCRIPTION SOURCE

Hide Field DSContArea

FIELD EBTJVTR

ALIAS EasternBrookTroutJointVentureData

- * DATA TYPE String
- * WIDTH 20
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Eastern Brook Trout Joint Venture (reproducing trout populations and species) Brown, brook, and rainbow trout species.

DESCRIPTION SOURCE

NCDOT

Hide Field EBTJVTR ▲

FIELD CCWHab ► ALIAS ColdCoolWarmHabitat * DATA TYPE String * WIDTH 6 * PRECISION 0 * SCALE 0 FIELD DESCRIPTION Designates boundaries for habitat types: Cold, Cool, Warm Habitat

DESCRIPTION SOURCE NCDOT

Hide Field CCWHab ▲

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 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 Impact

- * ALIAS Impact
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION

Designates if the line segment should be used for impact assessments

DESCRIPTION SOURCE

LIST OF VALUES VALUE Yes DESCRIPTION Used for impact assessment ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NO DESCRIPTION Not used for impact assessment ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field Impact

FIELD IRpt2020Cmt

- * ALIAS IRCMultipleRelationships
- * DATA TYPE String
- * WIDTH 250

* PRECISION 0

- * SCALE 0
- FIELD DESCRIPTION

Comment field advising a user to review the Integrated Report 2020 from DEQ for this AUNumber.

DESCRIPTION SOURCE NCDEQ

Hide Field IRpt2020Cmt ▲

Hide Details for object NCAtlasHydrographyAbridged

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 2024-01-29

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 16:02:10 LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-29 16:17:41

AUTOMATIC UPDATES HAVE BEEN PERFORMED Yes LAST UPDATE 2024-01-29 16:17:41

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

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
```

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

Hide Metadata Contacts 🔺

Metadata Maintenance 🕨

MAINTENANCE

UPDATE FREQUENCY as needed

OTHER MAINTENANCE REQUIREMENTS

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.

MAINTENANCE 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

Hours of service 9:00am – 5:00pm Monday - Friday

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Hide Contact information

Hide Metadata Maintenance

Metadata Constraints 🕨

SECURITY CONSTRAINTS CLASSIFICATION UNCLASSIFIE 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 Sweeping Environmental group 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 predecisional.

CONSTRAINTS

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Hide Metadata Constraints