

# NC ATLAS Hydrography 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 July 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 dataset is a statewide polyline layer depicting location and various regulatory considerations of water resources with respect to transportation planning.

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.

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 pre-decisional.

### 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

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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### Extent

**West** -84.421600    **East** -75.416491  
**North** 36.620015    **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    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

#### THESAURUS ▶

TITLE    User  
 CREATION DATE    2019-07-22 00:00:00  
 PUBLICATION DATE    2021-12-01 00:00:00

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

## Citation ►

TITLE NC ATLAS Hydrography 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](mailto:ATLAS@ncdot.gov)

### HOURS OF SERVICE

9:00am – 5:00pm Monday - Friday

### CONTACT INSTRUCTIONS

Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

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CONTACT'S POSITION Environmental Program Consultant  
CONTACT'S ROLE point of contact

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CONTACT'S ROLE originator

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ADDRESS

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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 (NCDQM) 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

[CONTACT INFORMATION ►](#)

PHONE

VOICE 919-707-6136

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[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

ADDRESS

TYPE physical

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CITY Raleigh

ADMINISTRATIVE AREA NC

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[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

#### LEGAL CONSTRAINTS

##### LIMITATIONS OF USE

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#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

##### LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)

## Spatial Reference ►

#### ARCGIS COORDINATE SYSTEM

\* TYPE Projected

\* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983

\* PROJECTION NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet

\* COORDINATE REFERENCE DETAILS

##### PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719

X ORIGIN -121841900  
Y ORIGIN -93659000  
XY SCALE 3048.0060960121928  
Z ORIGIN -100000  
Z SCALE 10000  
M ORIGIN -100000  
M SCALE 10000  
XY TOLERANCE 0.0032808333333333331  
Z TOLERANCE 0.001  
M TOLERANCE 0.001  
HIGH PRECISION true  
LATEST WELL-KNOWN IDENTIFIER 2264  
WELL-KNOWN TEXT  
PROJCS["NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert\_Conformal\_Conic"],PARAMETER["False\_Easting",2000000.002616666],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-79.0],PARAMETER["Standard\_Parallel\_1",34.33333333333334],PARAMETER["Standard\_Parallel\_2",36.16666666666666],PARAMETER["Latitude\_Of\_Origin",33.75],UNIT["Foot\_US",0.3048006096012192],AUTHORITY["EPSG",2264]]

REFERENCE SYSTEM IDENTIFIER  
VALUE 2264  
\* CODESPACE EPSG  
\* VERSION 6.12(9.0.0)

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

### VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

### GEOMETRIC OBJECTS

FEATURE CLASS NAME NCAtlasHydrography  
\* OBJECT TYPE composite  
\* OBJECT COUNT 1593176

[Hide Vector ▲](#)

### ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME NCAtlasHydrography  
\* 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 ▲](#)

## 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 **2019-07-22 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 ▲*

*Hide Data quality report - Conceptual consistency ▲*

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

#### 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 ▲](#)

[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,
- Individual ID numbers for Unnamed Tributaries.
- Updated names for UTs

For streams that have a single assessment unit, this reads as UT 2 to Eric Creek.

For Streams with multiple assessment units, the AU number is added (e.g. UT 34 to Wilson Creek (27-45-(2))

- Addition of 'NCDEQ Anadromous Fish Spawning Areas' – waters listed in NC Administrative Code as AFSA.

Update for December 2021:

Hydro fields were deleted, added and renamed as per NCDEQ data updates.

-Deleted Fields:

CycleYr: Field retired by DEQ  
Collection: Field retired by DEQ  
AsmntStat: Field retired by DEQ  
USRLong: Field retired by DEQ  
USCLongVe: Field retired by DEQ  
RFRLong: Field retired by DEQ  
POILong: Field retired by DEQ  
Dyear: Field retired by DEQ  
WQAsmtOneMatch: Field retired by DEQ  
WQAsmtCmt: Field retired by DEQ  
BIMSName: Duplicate Field, retired by DEQ  
BIMSDescr: Duplicate Field, retired by DEQ  
BIMSDate: Duplicate Field, retired by DEQ  
ShapeSTLe: Duplicate Field, retired by DEQ  
OIRCat: Field retired by DEQ  
OUSR: Field retired by DEQ  
AULengthA1: Duplicate Field, retired by DEQ  
F2018: Replaced with new fields

-New fields:

R2020  
A2020  
X03RANK20  
R2018  
A2018  
R2016  
A2016  
R2014  
A2014  
R2012  
A2012  
R2010  
A2010  
R2008  
A2008

-Renamed fields:

IRpt2018Mat  
IRpt2018Cmt

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 - 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

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#### PROCESS STEP ►

##### DESCRIPTION

Attributes from several NCDEQ 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 (NCDQM) 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. HSSD attributes were generated within individual USGS HUC10 boundaries and within a small buffer of the approximate bounds of North Carolina; therefore, calculated drainage areas were post-processed to include upstream and out-of-state drainage where necessary. HSSD-generated attributes were joined directly to the ATLAS Hydrography dataset for all stream centerlines. Shorelines of double-line streams (rivers) were split across from all stream confluences to generate approximately equal shoreline lengths. These shoreline segments were then attributed with the upstream values of the HSSD reach encompassed by the double line stream segment and the downstream values of the HSSD reach encompassed by the double line stream segment. HSSD values of specific stream reach information (Length, Slope, StrmDrop, WSNO, DOUTSTART, DOUTEND) are not included in double-line stream attributes. Shorelines of impoundments (lakes and ponds) were attributed with the upstream and downstream values of the stream reach draining from the waterbody. HSSD attributes that are inappropriate for describing impounded areas were not included (StrmDrop, Slope, StraightL, WSNO- definitions are provided in the attached spreadsheet). Additional site-specific HSSD values within waterbodies may be obtained from the 'Artificial Paths' layer. Unnamed tributaries were given a unique ID and is recorded the UTID field. Anadromous fish spawning location data was added. Stream network names were added for all unnamed tributary waters based on what named features into which they drain.

PROCESS CONTACT

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

CONTACT INFORMATION ►

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PROCESS STEP ►

DESCRIPTION

Geodatabase was forwarded on to the GIS Unit for publishing as part of data for project ATLAS.

PROCESS CONTACT

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

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

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**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

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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 Distributor ▲*

DISTRIBUTION FORMAT

\* NAME File Geodatabase Feature Class

VERSION 10.5

*Hide Distribution ▲*

## Fields ►

DETAILS FOR OBJECT NCAtlasHydrography ►

\* 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

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 AUID ►

ALIAS NCDEQAutoNumber

\* DATA TYPE Integer

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

DESCRIPTION SOURCE

NCDEQ

FIELD DESCRIPTION

Autonumber. Will be used in place of AUNumber for data management in the future. Unique assessment unit number for each segment of stream or waterbody in NC.

*Hide Field AUID ▲*

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

NCDEQ

*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 **HydroType** ▶

ALIAS WaterbodyType

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Hydrologic Type

DESCRIPTION SOURCE

NCDEQ

LIST OF VALUES

VALUE Lake/Pond

DESCRIPTION Lake/Pond

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE Stream/River – Double

DESCRIPTION Stream/River – Double

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE Stream/River – Single

DESCRIPTION Stream/River – Single

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

*Hide Field HydroType ▲*

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  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

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 ACS ►

ALIAS IRCAssessmentCriteriaStatus

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Assessment Criteria Status  
(NRTR required value)

DESCRIPTION SOURCE

NCDEQ

LIST OF VALUES

VALUE DI

DESCRIPTION Data Inconclusive - Data are inconclusive for parameter of interest  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

VALUE MC

DESCRIPTION Meeting Criteria - Criteria are being met for parameter of interest  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

VALUE EC

DESCRIPTION Exceeding Criteria - Criteria are exceeded for parameter of interest  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

*Hide Field ACS ▲*

FIELD RFR ►

ALIAS IRCReasonForRating

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Reason for Rating  
(NRTR required value)

DESCRIPTION SOURCE

NCDEQ

LIST OF VALUES

VALUE Not Rated

DESCRIPTION Not Rated bioclassification  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

VALUE Legacy Metals Assessment

DESCRIPTION Data inconclusive legacy metals standards  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

VALUE Not assessed

DESCRIPTION NC criteria not assessed or no criteria developed to assess  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

VALUE Potentially due to natural conditions

DESCRIPTION The exceedance may be due to natural conditions for DO or pH  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

VALUE Ent AP GM>35

DESCRIPTION Geometric Mean > 35, samples not collected 5 times in 30 days  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - Integrated Report 2018

VALUE FCB AP GM>200 or >20%

**DESCRIPTION** Geometric Mean > 200 or greater than 20% exceed 400. Samples not collected 5 times in 30 days

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDEQ - Integrated Report 2018

**VALUE** TMDL parameter. Reduction level unknown.

**DESCRIPTION** TMDL parameter. TMDL reduction goals have not been measured to determine if reduction goals are being met.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDEQ - Integrated Report 2018

**VALUE** No Asmnt of Thermal Variance

**DESCRIPTION** Water temperature exceeding numeric criteria for Tr waters but no assessment made for thermal variance.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDEQ - Integrated Report 2018

**VALUE** Inconclusive Numeric Criteria

**DESCRIPTION** > 10 % excursion rate, > 90 % confidence in 10 percent excursion rate, sample size less than 10, currently not Exceeding Criteria <3 recent excursions. Data not augmented Priority 2 for resample by next assessment.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDEQ - Integrated Report 2018

*Hide Field RFR ▲*

#### 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 F303dyr ►

**ALIAS** IRCFirstYearParameterIsCategory5

\* **DATA TYPE** String

\* **WIDTH** 254

\* **PRECISION** 0

\* **SCALE** 0

**FIELD DESCRIPTION**

First year parameter is in category 5 ie 303(d) list. Denotes if this AU has been rated as a Category 5 [303(d) Impaired water], this field identifies the year in which it was first rated.

**DESCRIPTION SOURCE**

NCDEQ

*Hide Field F303dyr ▲*

#### FIELD NCBasin ►

**ALIAS** NCRiverBasin

\* **DATA TYPE** String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

NC River basin abbreviation

DESCRIPTION SOURCE

NCDEQ

[Hide Field NCBasin ▲](#)

FIELD [AULengthA ▶](#)

ALIAS AULength

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

The number included is the Length (streams) or Area (lakes, ponds-usually reservoirs) estimate based on GIS calculations from the 1:24,000 National Hydrography Dataset (NHD) or measured over imagery. Units are identified in the 'AUUnits' field (units are Miles or Acres).

DESCRIPTION SOURCE

NCDEQ

[Hide Field AULengthA ▲](#)

FIELD [BIMSIndex ▶](#)

ALIAS NCDEQBasinwideInformationManagementSystemNumber

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Similar to AU number, may be the same as the AU, or may be split into several AUs. This is a previous indexing number used by the NCDEQ before moving to AU\_Numbers. BIMS is the Basinwide Information Management System, (NRTR required value)

DESCRIPTION SOURCE

NCDEQ

[Hide Field BIMSIndex ▲](#)

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 NCDEQ

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 AUNumber ▶

ALIAS DescriptionOfAUNumber

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Description of from and to for the assessment unit or areal extent description ie. describes the location of the beginning and the end of an AU.

DESCRIPTION SOURCE

NCDEQ

*Hide Field AUNumber ▲*

#### FIELD Subbasin ▶

ALIAS NCHUC8Watershed

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

NC HUC 8 name which is same as Watershed Boundary Dataset HUC 8 Name

DESCRIPTION SOURCE

NCDEQ

*Hide Field Subbasin ▲*

#### FIELD HUC8 ▶

ALIAS NCHUC8Watershed(2)

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0



FIELD DESCRIPTION

Watershed Boundary Dataset HUC 8 name

DESCRIPTION SOURCE

NCDEQ

[Hide Field HUC8 ▲](#)

FIELD AUUnits ►

ALIAS CodedUnitsOfLengthsOrAreas

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

There are four unit types used in the assessment. This field identifies the Units for the Length/Area fields. 1=Miles of Atlantic Coastline (saltwater), 2=Freshwater Miles, 3=Saltwater Acres, 4=Freshwater Acres.

DESCRIPTION SOURCE

NCDEQ

LIST OF VALUES

VALUE 4 - Atlantic Coast

DESCRIPTION Length of AUs on the Atlantic Coastline all are Class SB

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - WRAPS\_AU\_Classifications

VALUE 1 - FW Acres

DESCRIPTION Freshwater AUs that are described by a surface area generated by 1:24k hydrography- usually reservoirs

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - WRAPS\_AU\_Classifications

VALUE 2-FW Miles

DESCRIPTION Freshwater AUs that are described by a length generated by 1:24k hydrography- usually streams and rivers

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - WRAPS\_AU\_Classifications

VALUE 3-S Acres

DESCRIPTION Saltwater or Estuarine AUs that are described by a surface area generated by 1:24k hydrography- all Class SC SB and SA waters

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ - WRAPS\_AU\_Classifications

[Hide Field AUUnits ▲](#)

FIELD HydroOrder ►

ALIAS HydrologicallyOrderedList

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Uses BIMS index number to develop hydrologically ordered list (subject to imperfections)

DESCRIPTION SOURCE

NCDEQ

[Hide Field HydroOrder ▲](#)

FIELD CreatedCy ▶

ALIAS YearOfAUCreation

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Even numbered year when the AU was created or became active. Tracks back to 2008

DESCRIPTION SOURCE

NCDEQ

*Hide Field CreatedCy ▲*

FIELD Status ▶

ALIAS ActiveOrRetiredAUStatus

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Active or Retired

DESCRIPTION SOURCE

NCDEQ

LIST OF VALUES

VALUE Active

DESCRIPTION Active Status

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE Retired

DESCRIPTION Retired Status

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

*Hide Field Status ▲*

FIELD PreviousAU ▶

ALIAS previousAUNumber

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Retired AU number that was this AU previously

DESCRIPTION SOURCE

NCDEQ

*Hide Field PreviousAU ▲*

FIELD AUType ▶

ALIAS WaterbodyTypeByDrainage

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Types of AU

DESCRIPTION SOURCE

NCDEQ

LIST OF VALUES

VALUE AO

DESCRIPTION Atlantic Ocean - Atlantic Ocean Coastline

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE C

DESCRIPTION Creek - FW miles draining <2 subwatersheds (HUC 12)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE CI

DESCRIPTION Creek Impoundment - FW miles draining <2 subwatersheds (HUC 12)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE ES

DESCRIPTION Estuary - S acres

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE R

DESCRIPTION Large River - FW miles draining >1 watershed (HUC 10)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE RE

DESCRIPTION Riverine Estuary - S acres at mouths of large rivers

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE RI

DESCRIPTION Large River Impoundment - FW acres draining >1 watershed (HUC 10)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE S

DESCRIPTION Stream - FW miles draining >2 subwatershed (HUC 12)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE SI

DESCRIPTION Stream Impoundment - FW acres draining >2 subwatershed (HUC 12)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

[Hide Field AUType ▲](#)

FIELD [GISFeatur ►](#)

\* ALIAS NCDEQ 24k GIS Feature Present

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Indicated if there is a GIS feature in the 1:24,00 NHD (4 do not have a feature)

DESCRIPTION SOURCE

NCDEQ

LIST OF VALUES

VALUE Yes

DESCRIPTION Yes has a GIS feature

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

[Hide Field GISFeatur ▲](#)

FIELD [ClassOneMatch ▶](#)

ALIAS ClassificationsSingleRelationship

\* DATA TYPE String

\* WIDTH 5

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Relationship Table Field. Indicates if the listed AUNumber has a many:one relationship with the source water classifications report from DEQ.

DESCRIPTION SOURCE

NCDEQ

[Hide Field ClassOneMatch ▲](#)

FIELD [ClassComments ▶](#)

ALIAS ClassificationsMultipleRelationships

\* DATA TYPE String

\* WIDTH 250

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Relationship Table Field. Comment field advising a user to review the water classifications report from DEQ for this AUNumber.

DESCRIPTION SOURCE

NCDEQ

[Hide Field ClassComments ▲](#)

FIELD [WrapsRatingOneMatch ▶](#)

ALIAS WRAPSClassificationsSingleRelationship

\* DATA TYPE String

\* WIDTH 5

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Relationship Table Field

Indicates if the listed AUNumber has a many:one relationship with the source WRAPS rating report from DEQ.

DESCRIPTION SOURCE

NCDEQ

[Hide Field WrapsRatingOneMatch ▲](#)

FIELD [WrapsRatingCmts](#) ▶

ALIAS WRAPSClassificationsMultipleRelationships

\* DATA TYPE String

\* WIDTH 250

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Relationship Table Field

Comment field advising a user to review the WRAPS rating report from DEQ for this AUNumber.

DESCRIPTION SOURCE

NCDEQ

[Hide Field WrapsRatingCmts](#) ▲

FIELD [LinkNo](#) ▶

ALIAS HSSDLinkNumber

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

An arbitrary, unique number associated with each link (segment of channel between junctions).

DESCRIPTION SOURCE

HSSD

[Hide Field LinkNo](#) ▲

FIELD [DLinkNo](#) ▶

ALIAS HSSDNumberOfDownstreamLink

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Link Number of the downstream link. -1 indicates that this does not exist. Unique within HUC10 boundaries only.

DESCRIPTION SOURCE

HSSD

[Hide Field DLinkNo](#) ▲

FIELD [USLinkNo1](#) ▶

ALIAS HSSDNumberOfUpstreamLink1

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Link Number of first upstream link. (-1 indicates no second link upstream, i.e. for a source link or an internal monitoring point where the reach is logically split but the network does not bifurcate.)

DESCRIPTION SOURCE

HSSD

[Hide Field USLinkNo1 ▲](#)

FIELD [USLinkNo2 ▶](#)

ALIAS HSSDNumberOfUpstreamLink2

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Link Number of second upstream link. (-1 indicates no second link upstream, i.e. for a source link or an internal monitoring point where the reach is logically split but the network does not bifurcate.)

DESCRIPTION SOURCE

HSSD

[Hide Field USLinkNo2 ▲](#)

FIELD [DSNodeID ▶](#)

ALIAS HSSDDownstreamNodeIdentifier

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Node identifier for node at downstream end of stream reach. This identifier corresponds to the "id" attribute from the Outlets shapefile used to designate nodes. Valid for stream centerlines derived from HSSD data only.

DESCRIPTION SOURCE

HSSD

[Hide Field DSNodeID ▲](#)

FIELD [StrmOrder ▶](#)

ALIAS HSSDStrahlerStreamOrder

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Strahler Stream Order

This is a numerical value representing stream size and it is standard. Headwater streams are assigned the value '1'. When two '1s' combine, they form a '2.' When a 1-stream flows into a 2-stream, nothing changes, but when two 2-streams flow together, they form a '3.' Only same-order streams flowing together increase the order (3+1 or 3+2 = no change, but 3+3=4, 4+4=5, ad infinitum.

DESCRIPTION SOURCE

HSSD

[Hide Field StrmOrder ▲](#)

FIELD [Length ▶](#)

ALIAS HSSDLengthOfLink

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

FIELD DESCRIPTION

Length of the link. The units are the horizontal map units of the underlying DEM grid. Valid for stream centerlines derived from HSSD data only.

DESCRIPTION SOURCE  
HSSD

*Hide Field Length ▲*

FIELD Magnitude ►

ALIAS HSSDShreveMagnitude

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

FIELD DESCRIPTION

Shreve Magnitude of the link. This is the total number of sources upstream

DESCRIPTION SOURCE  
HSSD

*Hide Field Magnitude ▲*

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  
HSSD

*Hide Field DSContArea ▲*

FIELD StrmDrop ►

ALIAS HSSDElevationDropOfLink

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

FIELD DESCRIPTION

Drop in elevation from the start to the end of the link in feet. Valid for stream centerlines derived from HSSD data only.

DESCRIPTION SOURCE  
HSSD

*Hide Field StrmDrop ▲*

FIELD **Slope** ▶

ALIAS HSSDAverageSlopeOfLink

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Average slope of the link (computed as drop/length). Valid for stream centerlines derived from HSSD data only. Dimensionless ratio.

DESCRIPTION SOURCE

HSSD

*Hide Field Slope ▲*

FIELD **StraightL** ▶

ALIAS HSSDStraightDistanceOfLink

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Straight line distance from the start to the end of the link in feet. Valid for stream centerlines derived from HSSD data only.

DESCRIPTION SOURCE

HSSD

*Hide Field StraightL ▲*

FIELD **USContArea** ▶

ALIAS HSSDDrainageAreaAtUpstreamEndOfLink

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

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

DESCRIPTION SOURCE

HSSD

*Hide Field USContArea ▲*

FIELD **WSNo** ▶

ALIAS HSSDElevationDropOfLink

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Corresponds to the watershed grid that is produced during the HSS process. Valid for stream centerlines derived from HSSD data only.



DESCRIPTION SOURCE

HSSD

[Hide Field WSN0 ▲](#)

FIELD **DOutEnd** ►

ALIAS HSSDDistanceToOutletFromDownstreamEndOfLink

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Distance to the eventual outlet (i.e. the most downstream point in the stream network) from the downstream end of the link in feet. Valid for stream centerlines derived from HSSD data only.

DESCRIPTION SOURCE

HSSD

[Hide Field DOutEnd ▲](#)

FIELD **DOutStart** ►

ALIAS HSSDDistanceToOutletFromUpstreamEndOfLink

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Distance to the eventual outlet from the upstream end of the link in feet. Valid for stream centerlines derived from HSSD data only.

DESCRIPTION SOURCE

HSSD

[Hide Field DOutStart ▲](#)

FIELD **DOutMid** ►

ALIAS HSSDDistanceToOutletFromMidpointOfLink

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Distance to the eventual outlet from the midpoint of the link in feet.

DESCRIPTION SOURCE

HSSD

[Hide Field DOutMid ▲](#)

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 DBCJIW ►

ALIAS CoastalJointAndInlandWaters

\* DATA TYPE String

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Designates boundary types of Coastal, Joint, and Inland Waters

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Coastal

DESCRIPTION Coastal

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Inland

DESCRIPTION Inland

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Joint

DESCRIPTION Joint

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

*Hide Field DBCJIW ▲*

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 MStart ►

- ALIAS HSSDMValueAtLinkStart
- \* DATA TYPE Single
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0
- FIELD DESCRIPTION  
Measured value at start of link (always 0) in feet.
  
- DESCRIPTION SOURCE  
HSSD

*Hide Field MStart ▲*

FIELD MEnd ►

- ALIAS HSSDMValueAtLinkEnd
- \* DATA TYPE Single
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0
- FIELD DESCRIPTION

Measured value at end of link (same as Length) in feet.

DESCRIPTION SOURCE

HSSD

[Hide Field MEnd ▲](#)

FIELD [UTID ▶](#)

ALIAS UnnamedTributaryID

\* DATA TYPE Integer

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Incrementing, unique ID number for each unnamed tributary line segment

DESCRIPTION SOURCE

NCDOT

[Hide Field UTID ▲](#)

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

NCDOT

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 [AFSA ▶](#)

ALIAS NCCodifiedAnadromousFishSpawningAreas

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Defines spawning location status for anadromous fish species as null, inland, joint, or coastal

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE inland  
DESCRIPTION inland  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE joint  
DESCRIPTION joint  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE coastal  
DESCRIPTION coastal  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE null  
DESCRIPTION no value  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field AFSA ▲](#)

FIELD IRpt2020Mat ►

- \* ALIAS IntegratedReport2020Match
- \* DATA TYPE String
- \* WIDTH 5
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Indicates if the listed AUNumber has a many:one relationship with the source Integrated Report 2020 from DEQ

DESCRIPTION SOURCE

NCDEQ

LIST OF VALUES

VALUE YES  
DESCRIPTION YES  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE NO  
DESCRIPTION NO  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

VALUE <Null>  
DESCRIPTION No Value  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

[Hide Field IRpt2020Mat ▲](#)

FIELD IRpt2020Cmt ►

- \* ALIAS IntegratedReport2020Comment
- \* DATA TYPE String
- \* WIDTH 250
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Comment field advising a user to review the Integrated Report 2018 from DEQ for this AUNumber

DESCRIPTION SOURCE

NCDEQ

[Hide Field IRpt2020Cmt ▲](#)

FIELD X03Rank2020 ►

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

FIELD DESCRIPTION

Impairment Ranking in 2020.

Ratings are only applied to the Red WRAPS Ratings, though not all red ratings have been given a ranking.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE High

DESCRIPTION High

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Medium

DESCRIPTION Medium

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Low

DESCRIPTION Low

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field X03Rank2020 ▲](#)

FIELD Rating2020 ►

- \* ALIAS Rating2020
- \* DATA TYPE String
- \* WIDTH 10
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

WRAPS Rating in 2020

WRAPS stands for Watershed Restoration, Assessment and Protection Superstructure.

The WRAPS Ratings will have a single color each: green, blue, gray, pink, red which determine water quality.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Green

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue) and have met criteria in all previous assessments.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Blue

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Gray

**DESCRIPTION** There are only data inconclusive assessments or at least one pathogen assessment is data inconclusive (except for Mercury in Fish Tissue).

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

**VALUE** Pink

**DESCRIPTION** There is at least one category 4 assessment and no category 5 assessments (except for Mercury in Fish Tissue).

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

**VALUE** Red

**DESCRIPTION** There is at least one category 5 assessment -303(d) list (except for Mercury in Fish Tissue).

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

*Hide Field Rating2020 ▲*

**FIELD Active2020 ►**

\* **ALIAS** Active2020

\* **DATA TYPE** SmallInteger

\* **WIDTH** 2

\* **PRECISION** 0

\* **SCALE** 0

**FIELD DESCRIPTION**

Determines whether an assessment unit was active in the given year (Field used internally by DEQ for queries and QC)

**DESCRIPTION SOURCE**

NCDOT

**LIST OF VALUES**

**VALUE** 1

**DESCRIPTION** Active

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

**VALUE** 0

**DESCRIPTION** Not Active

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

*Hide Field Active2020 ▲*

**FIELD Rating2018 ►**

\* **ALIAS** Rating2018

\* **DATA TYPE** String

\* **WIDTH** 10

\* **PRECISION** 0

\* **SCALE** 0

**FIELD DESCRIPTION**

WRAPS Rating in 2018

WRAPS stands for Watershed Restoration, Assessment and Protection Superstructure.

The WRAPS Ratings will have a single color each: green, blue, gray, pink, red which determine water quality.

**DESCRIPTION SOURCE**

NCDOT

**LIST OF VALUES**

**VALUE** Green

**DESCRIPTION** All assessments are meeting criteria (except for Mercury in Fish Tissue) and have met criteria in all previous assessments.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

**VALUE** Blue

**DESCRIPTION** All assessments are meeting criteria (except for Mercury in Fish Tissue).

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

**VALUE** Gray

**DESCRIPTION** There are only data inconclusive assessments or at least one pathogen assessment is data inconclusive (except for Mercury in Fish Tissue).

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

**VALUE** Pink

**DESCRIPTION** There is at least one category 4 assessment and no category 5 assessments (except for Mercury in Fish Tissue).

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

**VALUE** Red

**DESCRIPTION** There is at least one category 5 assessment -303(d) list (except for Mercury in Fish Tissue).

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

*Hide Field Rating2018 ▲*

**FIELD** Active2018 ►

\* **ALIAS** Active2018

\* **DATA TYPE** SmallInteger

\* **WIDTH** 2

\* **PRECISION** 0

\* **SCALE** 0

**FIELD DESCRIPTION**

Determines whether an assessment unit was active in the given year (Field used internally by DEQ for queries and QC)

**DESCRIPTION SOURCE**

NCDOT

**LIST OF VALUES**

**VALUE** 1

**DESCRIPTION** Active

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

**VALUE** 0

**DESCRIPTION** Not Active

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** NCDOT

*Hide Field Active2018 ▲*

**FIELD** Rating2016 ►

\* **ALIAS** Rating2016

\* **DATA TYPE** String

\* **WIDTH** 10

\* **PRECISION** 0

\* **SCALE** 0

**FIELD DESCRIPTION**

WRAPS Rating in 2016



WRAPS stands for Watershed Restoration, Assessment and Protection Superstructure.  
The WRAPS Ratings will have a single color each: green, blue, gray, pink, red which determine water quality.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Green

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue) and have met criteria in all previous assessments.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Blue

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Gray

DESCRIPTION There are only data inconclusive assessments or at least one pathogen assessment is data inconclusive (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Pink

DESCRIPTION There is at least one category 4 assessment and no category 5 assessments (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Red

DESCRIPTION There is at least one category 5 assessment -303(d) list (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

*Hide Field Rating2016 ▲*

FIELD Active2016 ►

\* ALIAS Active2016

\* DATA TYPE SmallInteger

\* WIDTH 2

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Determines whether an assessment unit was active in the given year (Field used internally by DEQ for queries and QC)

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 1

DESCRIPTION Active

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 0

DESCRIPTION Not Active

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

*Hide Field Active2016 ▲*

FIELD Rating2014 ►

- \* ALIAS Rating2014
- \* DATA TYPE String
- \* WIDTH 10
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

WRAPS Rating in 2014

WRAPS stands for Watershed Restoration, Assessment and Protection Superstructure. The WRAPS Ratings will have a single color each: green, blue, gray, pink, red which determine water quality.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Green

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue) and have met criteria in all previous assessments.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Blue

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Gray

DESCRIPTION There are only data inconclusive assessments or at least one pathogen assessment is data inconclusive (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Pink

DESCRIPTION There is at least one category 4 assessment and no category 5 assessments (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Red

DESCRIPTION There is at least one category 5 assessment -303(d) list (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

*Hide Field Rating2014 ▲*

FIELD Active2014 ►

- \* ALIAS Active2014
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Determines whether an assessment unit was active in the given year (Field used internally by DEQ for queries and QC)

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 1

DESCRIPTION Active

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 0  
DESCRIPTION Not Active  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field Active2014 ▲](#)

FIELD [Rating2012 ▶](#)

\* ALIAS Rating2012  
\* DATA TYPE String  
\* WIDTH 10  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

WRAPS Rating in 2012

WRAPS stands for Watershed Restoration, Assessment and Protection Superstructure. The WRAPS Ratings will have a single color each: green, blue, gray, pink, red which determine water quality.

DESCRIPTION SOURCE  
NCDOT

LIST OF VALUES

VALUE Green

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue) and have met criteria in all previous assessments.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Blue

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Gray

DESCRIPTION There are only data inconclusive assessments or at least one pathogen assessment is data inconclusive (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Pink

DESCRIPTION There is at least one category 4 assessment and no category 5 assessments (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Red

DESCRIPTION There is at least one category 5 assessment -303(d) list (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field Rating2012 ▲](#)

FIELD [Active2012 ▶](#)

\* ALIAS Active2012  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Determines whether an assessment unit was active in the given year (Field used internally by DEQ for queries and QC)

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 1

DESCRIPTION Active

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 0

DESCRIPTION Not Active

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

*Hide Field Active2012 ▲*

FIELD Rating2010 ►

\* ALIAS Rating2010

\* DATA TYPE String

\* WIDTH 10

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

WRAPS Rating in 2010

WRAPS stands for Watershed Restoration, Assessment and Protection Superstructure.

The WRAPS Ratings will have a single color each: green, blue, gray, pink, red which determine water quality.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Green

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue) and have met criteria in all previous assessments.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Blue

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Gray

DESCRIPTION There are only data inconclusive assessments or at least one pathogen assessment is data inconclusive (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Pink

DESCRIPTION There is at least one category 4 assessment and no category 5 assessments (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Red

DESCRIPTION There is at least one category 5 assessment -303(d) list (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

*Hide Field Rating2010 ▲*

FIELD **Active2010** ▶

- \* ALIAS Active2010
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Determines whether an assessment unit was active in the given year (Field used internally by DEQ for queries and QC)

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 1

DESCRIPTION Active

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 0

DESCRIPTION Not Active

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

*Hide Field Active2010* ▲

FIELD **Rating2008** ▶

- \* ALIAS Rating2008
- \* DATA TYPE String
- \* WIDTH 10
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

WRAPS Rating in 2008

WRAPS stands for Watershed Restoration, Assessment and Protection Superstructure. The WRAPS Ratings will have a single color each: green, blue, gray, pink, red which determine water quality.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Green

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue) and have met criteria in all previous assessments.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Blue

DESCRIPTION All assessments are meeting criteria (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Gray

DESCRIPTION There are only data inconclusive assessments or at least one pathogen assessment is data inconclusive (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Pink

DESCRIPTION There is at least one category 4 assessment and no category 5 assessments (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Red

DESCRIPTION There is at least one category 5 assessment -303(d) list (except for Mercury in Fish Tissue).

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field Rating2008 ▲](#)

#### FIELD Active2008 ►

\* ALIAS Active2008

\* DATA TYPE SmallInteger

\* WIDTH 2

\* PRECISION 0

\* SCALE 0

#### FIELD DESCRIPTION

Determines whether an assessment unit was active in the given year (Field used internally by DEQ for queries and QC)

#### DESCRIPTION SOURCE

NCDOT

#### LIST OF VALUES

VALUE 1

DESCRIPTION Active

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 0

DESCRIPTION Not Active

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field Active2008 ▲](#)

[Hide Details for object NCAtlasHydrography ▲](#)

[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 16:05:42

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-29 16:16:59

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
LAST UPDATE 2024-01-29 16:16:59

[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](mailto:ATLAS@ncdot.gov)

### HOURS OF SERVICE

9:00am – 5:00pm Monday - Friday

### CONTACT INSTRUCTIONS

Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

[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](mailto:ATLAS@ncdot.gov)

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[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 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 pre-decisional.

#### CONSTRAINTS

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[Hide Metadata Constraints ▲](#)