Survey & Photogrammetry Limits of Survey, July 2021 Continuous Capture - NC Department of Transportation

File Geodatabase Feature Class

Tags
North Carolina, Survey, Photogrammetry, Project Limit, Study Area, Survey Limit, Boundaries, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS, North Carolina

Summary
This dataset was originally created in May 2019 and updated in July 2021 as part of the Project ATLAS initiative at NCDOT to support project delivery in the development phase. This dataset is a continuously updated compilation of Survey & Photogrammetry Limits of Survey polygons identified during field surveys for transportation projects.

Description
The Survey & Photogrammetry Limits of Survey dataset is a polygon layer in a statewide GIS dataset that defines survey limits identified during field survey work in project development for NCDOT. This data is gathered per transportation project and compiled into one statewide GIS dataset to be used for future transportation planning and project development. This dataset is continuously updated with new records as field surveys are completed per transportation project during environmental analysis and project development.

Datasets developed under Project ATLAS do not replace any field survey 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
Various consulting firms, contracted by NCDOT to conduct field survey work for transportation projects, contribute to this dataset. Additional contributors to this dataset are members of the NCDOT Environmental Analysis Unit. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

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

Extent
There is no extent for this item.

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:625,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE   boundaries, location, transportation, environment

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

PLACE KEYWORDS   North Carolina

  THESAURUS   ▶
  TITLE   User
  PUBLICATION DATE   2019-05-29   00:00:00

    Hide Thesaurus ▲

THEME KEYWORDS   North Carolina, Survey, Photogrammetry, Project Limit, Study Area, Survey Limit, Boundaries, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

  THESAURUS   ▶
  TITLE   User
  PUBLICATION DATE   2021-07-15   00:00:00
  CREATION DATE   2021-07-15   00:00:00

    Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE   Survey & Photogrammetry Limits of Survey, July 2021 Continuous Capture - NC Department of Transportation
CREATION DATE   2021-07-15   00:00:00
PUBLICATION DATE   2021-07-15   00:00:00

PRESENTATION FORMATS   digital map
FGDC GEOSPATIAL PRESENTATION FORMAT   vector digital data

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY
  ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
  CONTACT'S POSITION   Environmental Program Consultant
  CONTACT'S ROLE   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
   Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

   Hide Contact information ▲

RESPONSIBLE PARTY
   ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
   CONTACT'S POSITION   Environmental Program Consultant
   CONTACT'S ROLE   point of contact

   CONTACT INFORMATION   ▶
   PHONE
      VOICE   919-707-6136

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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

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Hide Citation Contacts ▲

Resource Details ►

DATASET LANGUAGES   English (UNITED STATES)
DATASET CHARACTER SET   utf8 - 8 bit UCS Transfer Format

STATUS   on-going
SPATIAL REPRESENTATION TYPE   vector

* PROCESSING ENVIRONMENT   Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

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Hide Resource Details ▲

Extents ►

EXTENT
  DESCRIPTION
    Temporal extent is ongoing. Data collection will continue indefinitely.

  GEOGRAPHIC EXTENT
    BOUNDING RECTANGLE
      WEST LONGITUDE   -84.422111
      EAST LONGITUDE   -75.416034
      SOUTH LATITUDE   33.730557
      NORTH LATITUDE   36.617257
      EXTENT CONTAINS THE RESOURCE   No

  TEMPORAL EXTENT
    BEGINNING DATE   2021-07-15   00:00:00
    ENDING DATE   2021-07-15   00:00:00

Hide Extents ▲

Resource Points of Contact ►

POINT OF CONTACT
  ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
  CONTACT'S POSITION   Environmental Program Consultant

CONTACT'S ROLE   originator

CONTACT INFORMATION   ▶
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Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance   ▶

RESOURCE MAINTENANCE
UPDATE FREQUENCY   continual

SCOPE OF THE UPDATES   dataset

MAINTENANCE CONTACT
ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION   Environmental Program Consultant
CONTACT'S ROLE   originator

CONTACT INFORMATION   ▶
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Hide Resource Maintenance ▲

Resource Constraints ►

LEGAL CONSTRAINTS
  LIMITATIONS OF USE
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SECURITY CONSTRAINTS
  CLASSIFICATION   unclassified
  CLASSIFICATION SYSTEM   None

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  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_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",34.33333333333334],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 LimitsofSurvey
    * Object type composite
    * Object count 0

  Hide Vector ▲

ArcGIS Feature Class Properties ▶
  Feature class name LimitsofSurvey
    * Feature type Simple
    * Geometry type Polygon
    * Has topology FALSE
    * Feature count 0
    * 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 - FORMAL CONSISTENCY ►

MEASURE NAME Data Standards

MEASURE DESCRIPTION

Completeness, consistency, positional and attribute accuracy are solely dependent upon entities contributing to this dataset. The NCDOT ATLAS Workbench application performs quality control checks on data coming into the enterprise database ensuring that schema is consistent. Checks are made for file name, attribute names, attribute types, attribute length/scale/precision, project number of the feature class vs the values in the ProjNumber field, and date.

EVALUATION METHOD

Data submitted to the ATLAS gateway through the Workbench tool must follow standards outlined in the ATLAS Standards Document.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

The ATLAS Workbench has a validation tool that checks every dataset being uploaded to the SDE Database and rejects any that do not follow the ATLAS Standards Document.

PRODUCT SPECIFICATION ►

TITLE ATLAS Standards Document

PUBLICATION DATE 2021-07-15 00:00:00

CREATION DATE 2021-07-15 00:00:00

RESPONSIBLE PARTY

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

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

ADDRESS

TYPE 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 Product specification ▲

Hide Data quality report - Formal consistency ▲

Lineage ►

LINEAGE STATEMENT

Records for this dataset are collected and added as Survey and Photogrammetry geospatial data and are delivered via the NCDOT ATLAS Workbench web application. When a project team, hired to complete a Field Survey for a particular project, uploads their geospatial data into the ATLAS Workbench application, that data is QA/QC'd to ensure schema consistency and if schema is correct that data is appended to the Survey Photogrammetry Limits of Survey dataset in the ATLAS SDE. That data is then published as a REST service to be used by web mapping applications.

PROCESS STEP ►
DESCRIPTION

Survey Photogrammetry Limits of Survey are drawn by various contractors as part of Survey Photogrammetry preparation for transportation projects. These are defined as the limits of the NEPA Study. Field staff use mapping-grade GPS units to record observations. GPS units should be loaded with the appropriate data dictionary files (.ddf) from NCDOT if they are available for the type of data being collected.

PROCESS CONTACT
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CONTACT'S ROLE   originator

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PROCESS STEP ►
DESCRIPTION

Contractors refer to Standards Document and copy out the Limits of Survey template shapefile. The data is compiled into this template and zipped up on the contractor's local machine.

PROCESS CONTACT
  ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
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  CONTACT'S ROLE   originator

    CONTACT INFORMATION ▶
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    Hide Contact information ▲

  Hide Process step ▲

PROCESS STEP ▶
  DESCRIPTION
    The contractor then signs on to the Sharepoint Connect site and navigates to the appropriate project and then over to the ATLAS Workbench and the appropriate discipline. In this case it is Survey & Photogrammetry. The data is then uploaded via the Workbench tool by the contractor for validation of the data.

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

    CONTACT INFORMATION ▶
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Hide Contact information ▲

Hide Process step ▲

PROCESS STEP   ▶
DESCRIPTION
QA/QC is conducted on the uploaded data by the ATLAS validation tool, which checks for filename, schema and geometry. If the data passes validation then it is appended to Limits of Survey into Edit SDE. The tool writes the URL for the layer to the Edit SDE in the DOC_URL field. Edit SDE is replicated to Pub SDE. Data is now visible as a web service layer.

PROCESS CONTACT
ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION   Environmental Program Consultant
CONTACT'S ROLE   originator

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Hide Contact information ▲

Hide Process step ▲

PROCESS STEP   ▶

DESCRIPTION
If the data does not pass validation then user receives feedback to upload corrected dataset.

PROCESS CONTACT
ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION   Environmental Program Consultant
CONTACT'S ROLE   originator

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Hide Process step ▲

PROCESS STEP   ▶
DESCRIPTION
The zip shapefile is placed on SharePoint in the ATLAS folder under the appropriate project number and discipline folder.

PROCESS CONTACT
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Hide Contact information ▲

Hide Process step ▲

Hide Lineage ▲

Distribution ►

DISTRIBUTOR   ►
  CONTACT INFORMATION
    ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
    CONTACT'S POSITION   Environmental Program Consultant
    CONTACT'S ROLE   distributor

      CONTACT INFORMATION   ►
      PHONE
        VOICE   919-707-6136

      ADDRESS
        TYPE   physical
        DELIVERY POINT   Century Center Building B, 1020 Birch Ridge Drive
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      Hide Contact information ▲

  Hide Distributor ▲

DISTRIBUTION FORMAT
  *NAME   File Geodatabase Feature Class
  VERSION   10.5

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT LimitsofSurvey ▶
 * TYPE   Feature Class
 * ROW COUNT   0
 DEFINITION
     Survey Photogrammetry Limits of Survey

 DEFINITION SOURCE
     NCDOT

FIELD OBJECTID ▶
 * ALIAS   OBJECTID
 * DATA TYPE   OID
 * WIDTH   4
 * PRECISION   0
 * SCALE   0
 * FIELD DESCRIPTION
     Internal feature number.

 * DESCRIPTION SOURCE
     Esri

 * DESCRIPTION OF VALUES
     Sequential unique whole numbers that are automatically generated.

    Hide Field OBJECTID ▲

FIELD SHAPE ▶
 * ALIAS   SHAPE
 * DATA TYPE   Geometry
 * WIDTH   0
 * PRECISION   0
 * SCALE   0
 * FIELD DESCRIPTION
     Feature geometry.

 * DESCRIPTION SOURCE
     Esri

 * DESCRIPTION OF VALUES
     Coordinates defining the features.

    Hide Field SHAPE ▲

FIELD ProjNumber ▶
 ALIAS   ProjectNumber
 * DATA TYPE   String
 * WIDTH   254
 * PRECISION   0
 * SCALE   0
 FIELD DESCRIPTION

DOT Project Number (TIP etc.)

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE   Free Text
DESCRIPTION   DOT Project Number
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT

BEGINNING DATE OF VALUES   2019-02-01

Hide Field ProjNumber ▲

FIELD DateCreate ►
ALIAS   DateCreated
* DATA TYPE   Date
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Date shapefile was compiled

DESCRIPTION SOURCE
NCDOT

RANGE OF VALUES
MINIMUM VALUE   2019
MAXIMUM VALUE   3000

BEGINNING DATE OF VALUES   2019-02-01

Hide Field DateCreate ▲

FIELD ContName ►
ALIAS   ContractorName
* DATA TYPE   String
* WIDTH   254
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Internal Field for name of Contractor that collected and produced the data. This field is automatically
populated by an ATLAS script and is for internal use only. Any data entered into this field will be
overwritten.

DESCRIPTION SOURCE
NCDOT

BEGINNING DATE OF VALUES   2019-02-01

Hide Field ContName ▲

FIELD RptName ►
ALIAS   ReportName
* DATA TYPE   String
* WIDTH   254

* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Report name associated with the shapefile

DESCRIPTION SOURCE
    NCDOT

LIST OF VALUES
  VALUE   Free Text
  DESCRIPTION   Report name associated with the shapefile
  ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT

BEGINNING DATE OF VALUES   2019-02-01

  Hide Field RptName ▲

FIELD DocURL ▶
ALIAS   DocumentURL
* DATA TYPE   String
* WIDTH   254
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Document URL for SharePoint.
    Internal Field for Document URL for location on Sharepoint. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE
    NCDOT

BEGINNING DATE OF VALUES   2019-02-01

  Hide Field DocURL ▲

FIELD Notes ▶
ALIAS   Notes
* DATA TYPE   String
* WIDTH   254
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    User notes

DESCRIPTION SOURCE
    NCDOT

LIST OF VALUES
  VALUE   Free Text
  DESCRIPTION   User notes
  ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT

BEGINNING DATE OF VALUES   2019-02-01

  Hide Field Notes ▲

FIELD FromDate ▶
* ALIAS   FromDate
* DATA TYPE   Date
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Internal Field for start of validity of data. This field is automatically populated by an ATLAS script and
   is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE
   NCDOT

BEGINNING DATE OF VALUES   2019-02-01

   Hide Field FromDate ▲

FIELD ToDate ▶
* ALIAS   ToDate
* DATA TYPE   Date
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Internal Field for end of validity of data. This field is automatically populated by an ATLAS script and is
   for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE
   NCDOT

BEGINNING DATE OF VALUES   2019-02-01

   Hide Field ToDate ▲

FIELD SPProjID ▶
ALIAS   SharepointProjectID
* DATA TYPE   String
* WIDTH   254
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Internal Field for Sharepoint Project ID. This field is automatically populated by an ATLAS script and is
   for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE
   NCDOT

BEGINNING DATE OF VALUES   2019-02-01

   Hide Field SPProjID ▲

FIELD SHAPE_Length ▶
* ALIAS   SHAPE_Length
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0

* SCALE   0
* FIELD DESCRIPTION
   Length of feature in internal units.

* DESCRIPTION SOURCE
   Esri

* DESCRIPTION OF VALUES
   Positive real numbers that are automatically generated.

   Hide Field SHAPE_Length ▲

FIELD SHAPE_Area ▶
  * ALIAS   SHAPE_Area
  * DATA TYPE   Double
  * WIDTH   8
  * PRECISION   0
  * SCALE   0
  * FIELD DESCRIPTION
      Area of feature in internal units squared.

  * DESCRIPTION SOURCE
      Esri

  * DESCRIPTION OF VALUES
      Positive real numbers that are automatically generated.

   Hide Field SHAPE_Area ▲

FIELD ProjURL ▶
  * ALIAS   ProjectURL
  * DATA TYPE   String
  * WIDTH   300
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
      Internal Field for Sharepoint folder location URL. This field is automatically populated by an ATLAS
      script and is for internal use only. Any data entered into this field will be overwritten.

  DESCRIPTION SOURCE
      NCDOT

   Hide Field ProjURL ▲

   Hide Details for object LimitsofSurvey ▲

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   2024-01-23

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

  CREATED IN ARCGIS FOR THE ITEM   2021-09-08   15:30:46
  LAST MODIFIED IN ARCGIS FOR THE ITEM   2024-01-23   17:11:54

  AUTOMATIC UPDATES
    HAVE BEEN PERFORMED   Yes
    LAST UPDATE   2024-01-23   17:11:54

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

  MAINTENANCE CONTACT

ORGANIZATION'S NAME   North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION   Environmental Program Consultant
CONTACT'S ROLE   originator

CONTACT INFORMATION   ▶
PHONE
VOICE   919-707-6136

ADDRESS
TYPE   physical
DELIVERY POINT   Century Center Building B, 1020 Birch Ridge Drive
CITY   Raleigh
ADMINISTRATIVE AREA   NC
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line in an email.

Hide Contact information ▲

Hide Metadata Maintenance ▲

Metadata Constraints ▶

SECURITY CONSTRAINTS
CLASSIFICATION   unclassified
CLASSIFICATION SYSTEM   None

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