

PM Project Study Area, April 2025 Continuous Capture - NC Department of Transportation

Geodatabase Feature Class



Tags Project Study Area, Study Area, Project Phase, Project Management, Transportation, NCDOT, Environment, Location, Boundaries, North Carolina, ATLAS

Summary

This dataset was originally created in March 2020 and updated in October 2022 and April 2025 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 project study areas identified during project development for transportation projects.

Description

The Project Management Project Study Area dataset is a polygon layer in a statewide GIS dataset for project study areas identified during project development for transportation projects for NCDOT. This data is gathered by project phase per transportation project and compiled into one statewide GIS dataset to be used for future transportation planning and project development. The project phases that are gathered in this dataset are express design, project scoping and modified post scoping. This dataset is continuously updated with new records as new development projects are completed per transportation project during environmental analysis.

Datasets developed under Project ATLAS do not replace any project development 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 working 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 NCDOT'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

There is no extent for this item.

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

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

Theme keywords Project Study Area, Study Area, Project Phase, Project Management, Transportation, NCDOT, Environment, Location, Boundaries, North Carolina, ATLAS

Thesaurus

Title User

Publication date 2025-04-01 00:00:00

Creation date 2025-04-01 00:00:00

Place keywords North Carolina

Thesaurus

Title User

Publication date 2025-04-01 00:00:00

Creation date 2025-04-01 00:00:00

Citation

Title PM Project Study Area, April 2025 Continuous Capture - NC Department of Transportation

Creation date 2025-04-01 00:00:00

Publication date 2025-04-01 00:00:00

Presentation formats digital map

FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - resource provider

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

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.

Responsible party - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

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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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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

Temporal extent

Beginning date 2025-04-01 00:00:00

Ending date 2025-04-01 00:00:00

Resource Points of Contact

Point of contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

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Resource Maintenance

Resource maintenance

Update frequency continual

Scope of the updates dataset

Maintenance contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@ncdot.gov

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Resource Constraints

Legal constraints

Limitations of use

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Security constraints

Classification unclassified

Classification system None

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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

ProjectedCoordinateSystem

WKID 102719

XOrigin -121841900

YOrigin -93659000

XYScale 3048.0060960121928
ZOrigin -100000
ZScale 10000
MOrigin -100000
MScale 10000
XYTolerance 0.0032808333333333331
ZTolerance 0.001
MTolerance 0.001
HighPrecision true
LatestWKID 2264
WKT
PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["79.0"],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666667],

Reference system identifier

Value 2264
Codespace EPSG
Version 6.12(9.0.0)

Spatial Data Properties

Vector

Level of topology for this dataset geometry only
Geometric objects
Feature class name ProjectStudyArea
Object type composite
Object count 0

ArcGIS Feature Class Properties

Feature class name ProjectStudyArea
Feature type Simple
Geometry type Polygon
Has topology FALSE
Feature count 0
Spatial index TRUE
Linear referencing FALSE

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Formal consistency

Data quality measure reference

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.

Quality evaluation procedure

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 2025-04-01 00:00:00

Creation date 2025-04-01 00:00:00

Responsible party - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address ATLAS@ncdot.gov

Hours of service

9:00am – 5:00pm Monday - Friday

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Lineage

Lineage statement

Records for this dataset are collected and added as the Final Environmental Document and their associated geospatial data are delivered via the NCDOT ATLAS Workbench web application. When a project team, hired to complete a final Environmental Document 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 Project Study Area dataset in the ATLAS SDE. That data is then published as a REST service to be used by web mapping applications.

Process step

Description

Project Study Areas are collected by various contractors conducting field work as part of preparation for transportation projects. 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 - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh

Administrative area NC

Postal code 27610

Country US

e-mail address ATLAS@ncdot.gov

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Process step

Description

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

Process contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

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Process step

Description

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

Process contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

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Process step

Description

Contractors refer to Standards Document and copy out the Project Study Area template shapefile. The data collected offsite is compiled into this template and zipped up on the contractor's local machine.

Process contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

Address

Type physical

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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 Project Management. The data is then uploaded via the Workbench tool by the contractor for validation of the data.

Process contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

Address

Type physical

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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 PM_ProjectStudyArea 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 - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

Address

Type physical

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Distribution

Distributor

Contact information - distributor

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

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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Distribution format

Name File Geodatabase Feature Class

Version 10.5

Fields

Details for object ProjectStudyArea

Type Feature Class

Row count 0

Definition

Project Study Area

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.

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.

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

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

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

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

Field DocURL

Alias DocumentURL

Data type String

Width 254

Precision 0

Scale 0

Field description

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

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

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

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

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

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.

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.

Field ProjURL

Alias ProjectURL

Data type String

Width 254

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

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 2025-03-27

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 2026-08-26 14:47:45

Last modified in ArcGIS for the item 2025-03-27 21:12:28

Automatic updates

Have been performed Yes

Last update 2025-03-27 21:12:28

Metadata Contacts

Metadata contact - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

Address

Type physical

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Metadata Maintenance

Maintenance

Update frequency as needed

Maintenance contact - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

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Metadata Constraints

Security constraints

Classification unclassified

Classification system None

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file