

NC Pavement Surface Characteristics, Continuous Capture - NC Department of Transportation

File Geodatabase Feature Class



Tags

Line, NC, North Carolina, NCDOT, Transportation, Highway, Pavement Materials, Pavement Surface Characteristics, International Roughness Index, Friction, Cross Slope, Longitudinal Grade, Texture Depth, Skidding Resistance

Summary

This geospatial data contains lines representing pavement surface characteristic data gathered from NCDOT's on-call contractor WDM USA Limited (<https://www.wdm-int.com>). The lines are segmented into short sections since there is a continuous 26.4-foot sample distance where friction, texture depth, cross slope, longitudinal grade, roughness, and skid data are collected. This data is collected along NCDOT's primary network of Interstate, US, and NC routes.

Description

The Data Collection and Investigations Section is a component of the Field Operations Sub-Unit of the NCDOT Materials and Tests Unit. Among its responsibilities is conducting a variety of field inspections and testing. This pavement surface characteristics data is collected by NCDOT contractor WDM USA Limited, a company widely recognized as a world leader in road condition surveying and enhancing road safety. WDM also provides the geospatial data representing the roads surveyed with attributes of the continuous data collection results per 26.4-foot road segments. This data is collected over the course of ~2 months every fall.

Credits

North Carolina Department of Transportation, Division of Highways, Materials and Tests Unit

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-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.

Extent

West -83.475770 **East** -76.270775
North 36.561720 **South** 33.960045

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:500,000

ArcGIS Metadata ►

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE location, transportation

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

CREATION DATE 2023-06-21 00:00:00

PUBLICATION DATE 2023-06-21 00:00:00

[Hide Thesaurus ▲](#)

THEME KEYWORDS Line, NCDOT, Transportation, Highway, Pavement Materials, Pavement Surface Characteristics, International Roughness Index, Friction, Cross Slope, Longitudinal Grade, Texture Depth, Skidding Resistance

THESAURUS ▶

TITLE User

CREATION DATE 2023-06-21 00:00:00

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[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ▶

TITLE NC Pavement Surface Characteristics, Continuous Capture - NC Department of Transportation

ALTERNATE TITLES Pavement Surface Characteristics

CREATION DATE 2023-06-21 00:00:00

PUBLICATION DATE 2023-06-21 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, Materials and Tests Unit

CONTACT'S POSITION Data Collection and Investigations Engineer

CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 919-329-4015

ADDRESS

TYPE physical

DELIVERY POINT 1801 Blue Ridge Road

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27607

COUNTRY US

E-MAIL ADDRESS jdbarbour2@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 data. 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 Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

ADDRESS

TYPE physical
DELIVERY POINT Century Center – Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
E-MAIL ADDRESS gishelp@ncdot.gov

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9:00am - 5:00pm Monday – Friday

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CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

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

STATUS on-going

SPATIAL REPRESENTATION TYPE * vector

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

CREDITS

North Carolina Department of Transportation, Division of Highways, Materials and Tests Unit

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[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -83.475770

* EAST LONGITUDE -76.270775

* NORTH LATITUDE 36.561720

* SOUTH LATITUDE 33.960045

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -83.475770

* EAST LONGITUDE -76.270775

* SOUTH LATITUDE 33.960045

* NORTH LATITUDE 36.561720

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY continual

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

North Carolina Department of Transportation, Division of Highways, Materials and Tests Unit

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MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

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[Hide Resource Maintenance ▲](#)

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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LEGAL CONSTRAINTS

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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 Geographic
- * GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984
- * COORDINATE REFERENCE DETAILS

GEOGRAPHIC COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 4326

X ORIGIN -400

Y ORIGIN -400

XY SCALE 999999999.99999988

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 8.98315284119521e-09

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LEFT LONGITUDE -180

LATEST WELL-KNOWN IDENTIFIER 4326

WELL-KNOWN TEXT

GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4326]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 4326
- * CODESPACE EPSG
- * VERSION 6.14(3.0.1)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME PavementMaterialCharacteristics

- * OBJECT TYPE composite
- * OBJECT COUNT 947109

[Hide Vector ▲](#)

ARCgis FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME PavementMaterialCharacteristics

- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polyline
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 947109
- * 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 COMMISSION ►

MEASURE DESCRIPTION

After processing and based on the availability of the submitter, the dataset is checked for the 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 **2023-06-21 00:00:00**

PUBLICATION DATE **2023-06-21 00:00:00**

[Hide Product specification ▲](#)

[Hide Data quality report - Completeness commission ▲](#)

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ►

MEASURE DESCRIPTION

This dataset is checked for visual verification in the online service sourcing the records from the Highway Construction and Maintenance System database. Data quality is not automated as part of the conversion process and assessed on an irregular basis.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION ►

TITLE **NCDOT Geospatial Data Specifications**

CREATION DATE **2023-06-21 00:00:00**

PUBLICATION DATE **2023-06-21 00:00:00**

[Hide Product specification ▲](#)

[Hide Data quality report - Conceptual consistency ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

The source data may be checked using standard review procedures. Attributes and null values were checked by using visual inspection as well as automated verification routines. Geometry checks were done post processing by the users.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2023-06-21 00:00:00

PUBLICATION DATE 2023-06-21 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

NCDOT contractor WDM USA Limited performs the road characteristics survey every fall. WDM collects the data and provides a GeoPackage (.gpkg) to the Data Collection and Investigations Section at NCDOT's Materials and Tests Unit. This geospatial data contains lines representing pavement surface characteristic data, segmented into 26.4-foot sections. Attributes with friction, texture depth, cross slope, longitudinal grade, roughness, and skid data are provided with the GeoPackage. This data is collected along NCDOT's primary network of Interstate, US, and NC routes.

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2023-05-30 00:00:00

DESCRIPTION

Roads surveyed and data collected by WDM USA Limited. A GeoPackage (.gpkg) is provided to NCDOT's Materials and Tests Uni.

PROCESS CONTACT

ORGANIZATION'S NAME WDM USA Limited

CONTACT'S POSITION Road Condition Surveyor

CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 804-277-951

ADDRESS

TYPE physical

DELIVERY POINT 200 South 10th Street

CITY Richmond

ADMINISTRATIVE AREA VA

POSTAL CODE 23219

COUNTRY US

E-MAIL ADDRESS info@wdm-int.com

HOURS OF SERVICE

9:00am - 5:00pm Monday – Friday

CONTACT INSTRUCTIONS

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, please indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2023-06-07 00:00:00

DESCRIPTION

The data is received for use from WDM USA Limited by the Data Collection and Investigations Section, a component of the Field Operations Sub-Unit of the NCDOT Materials and Tests Unit.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation, Materials and Tests Unit
CONTACT'S POSITION Data Collection and Investigations Engineer
CONTACT'S ROLE resource provider

CONTACT INFORMATION ▶

PHONE

VOICE 919-329-4015

ADDRESS

TYPE physical

DELIVERY POINT 1801 Blue Ridge Road

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27607

COUNTRY US

E-MAIL ADDRESS jdbarbour2@ncdot.gov

HOURS OF SERVICE

9:00am - 5:00pm Monday – Friday

CONTACT INSTRUCTIONS

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2023-06-21 00:00:00

DESCRIPTION

Feature Class created and maintained.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE point of contact

CONTACT INFORMATION ▶

ADDRESS

TYPE physical

DELIVERY POINT Century Center – Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE

9:00am - 5:00pm Monday – Friday

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ▶

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE distributor

CONTACT INFORMATION ►

ADDRESS

TYPE physical
DELIVERY POINT Century Center – Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
E-MAIL ADDRESS gishelp@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 data. If it is an immediate need, please indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class
VERSION ArcGIS Pro 2.9.9

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [PavementMaterialCharacteristics](#) ►

* TYPE Feature Class
* ROW COUNT 947109

DEFINITION

Pavement Surface Characteristics

DEFINITION SOURCE

North Carolina Department of Transportation, Materials and Tests Unit

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 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 MPH ►

* ALIAS MPH

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Speed of vehicle (miles per hour) surveying the pavement and collecting data.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field MPH ▲

FIELD MEAN_SCRIM_COEFFICIENT ►

* ALIAS MEAN_SCRIM_COEFFICIENT

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The mean results of the wet skidding resistance of the road surface as measured by a Sideways-force Coefficient Routine Investigation Machine (SCRIM).

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field MEAN_SCRIM_COEFFICIENT ▲](#)

FIELD **GRADE** ▶

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

FIELD DESCRIPTION

The gradient (slope) of the road along a given line. The tangent of the angle of that surface to the horizontal. A ratio of "rise" to "run", in which run is the horizontal distance (not the distance along the slope) and rise is the vertical distance.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field GRADE ▲](#)

FIELD **CROSS_SLOPE** ▶

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

FIELD DESCRIPTION

The slope of the pavement perpendicular to the road's centerline. On straight sections of normal two-lane roads, the pavement cross section is usually highest in the center and drains to both sides. In horizontal curves, the cross slope is banked into superelevation to reduce steering effort and lateral force required to go around the curve.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field CROSS_SLOPE ▲](#)

FIELD **CURVE_RADIUS** ▶

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

FIELD DESCRIPTION

Measured in feet. For a curve in a road, it equals the radius of the circular arc which best approximates the curve at that point.

It is necessary to establish the proper relation between design speed and curvature when designing roadway alignment. Curve radius is one of the basic elements of horizontal curves.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field CURVE_RADIUS ▲](#)

FIELD [DEGREE_OF_CURVE](#) ▶

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

FIELD DESCRIPTION

A road's curvature measured in degrees. The forward bearing changes by n degrees over a length.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field DEGREE_OF_CURVE](#) ▲

FIELD [IRI_IMPERIAL](#) ▶

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

FIELD DESCRIPTION

International Roughness Index in metric units.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field IRI_IMPERIAL](#) ▲

FIELD [FORWARD_IMAGE_URL](#) ▶

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

FIELD DESCRIPTION

Web site link to view pavement-facing images. The users is first brought to a WDM login site where an email and password is required.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field FORWARD_IMAGE_URL](#) ▲

FIELD [SURVEY_DATE](#) ▶

- * ALIAS SURVEY_DATE
- * DATA TYPE String
- * WIDTH 20
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Date of pavement characteristic survey.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Dates vary.

[Hide Field SURVEY_DATE ▲](#)

FIELD **MPD_2019_MM** ▶

* ALIAS MPD_2019_MM

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The road's surface Mean Profile Depth (MPD) in millimeters.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field MPD_2019_MM ▲](#)

[Hide Details for object PavementMaterialCharacteristics ▲](#)

[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 2024-04-03

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2024-02-19 16:12:54

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-04-03 14:07:18

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-04-03 14:07:18

[Hide Metadata Details ▲](#)

Metadata Contacts ▶

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ▶

ADDRESS

TYPE physical

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[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE
UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

CONSTRAINTS
LIMITATIONS OF USE

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SECURITY CONSTRAINTS
CLASSIFICATION unclassified
CLASSIFICATION SYSTEM None

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[Hide Metadata Constraints ▲](#)

Thumbnail and Enclosures ►

THUMBNAIL
THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)