

Combined Areas of Environmental Concern (AEC), February 2024 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Coastal Area Management Act, CAMA, NC Division of Coastal Management, NCDOT, estuarine waters, public trust areas, coastal shorelines, ocean erodible area, unvegetated beach area, small surface supply watersheds, public water supply well fields, unique coastal geologic formations, significant coastal archaeological resources, low tide, high tide, navigable-in-fact waters, hydrography, Descriptive Boundaries of Coastal, Joint, and Inland Waters, DBCJIW, QL2, LiDAR, Kill Devil Hills, Permuda Island, static vegetation lines, erosion rates, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

The function of this combined layer is to act as a "presence" layer, to represent the locations of all the individual elements within 11 separate Areas of Environmental Concern (AEC) layers. The specific AEC layer each element is associated with is included in the attribute table. For other attributes, see the respective origin layers associated with individual elements.

Description

Combined Areas of Environmental Concern (AEC) dataset is a statewide polygon layer identifying presence of AEC and the type of AEC in the state of North Carolina.

This layer is made up of all the individual AEC layers available on the ATLAS platform. These are areas of concern in coastal zones. The function of this combined layer is to act as a "presence" layer, to represent the locations of all the individual elements within the separate AEC layers. The field "Layer" in this dataset provides the specific layer each element is associated with.

The individual layers combined to create this layer include:

- ATLAS Coastal Estuarine Water Shorelines AEC
- ATLAS Coastal Public Trust Shorelines AEC
- ATLAS Estuarine Waters AEC
- ATLAS Ocean Hazard Eroding AEC
- ATLAS Public Trust AEC
- ATLAS Public Trust Unvegetated AEC
- ATLAS Public Water Supply Wellfields AEC
- ATLAS Significant Coastal Archaeological Resources AEC
- ATLAS Small Surface Supply Watershed AEC
- ATLAS Unique Coastal Geologic Formations AEC
- NC DEQ Inlet Hazard Area of Environmental Concern (IHAEC)

Datasets developed under Project ATLAS do not replace any Sweeping Environmental 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.

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.

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 -78.651592 **East** -75.381104
North 36.606776 **South** 33.758487

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 oceans, boundaries, inlandWaters, location, transportation, environment

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

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User
CREATION DATE 2019-01-01 00:00:00
PUBLICATION DATE 2024-02-23 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Coastal Area Management Act, CAMA, NC Division of Coastal Management, NCDCM, estuarine waters, public trust areas, coastal shorelines, ocean erodible area, unvegetated beach area, small surface supply watersheds, public water supply well fields, unique coastal geologic formations, significant coastal archaeological resources, low tide, high tide, navigable-in-fact waters, hydrography, Descriptive Boundaries of Coastal, Joint, and Inland Waters, DBCJIW, QL2, LiDAR, Kill Devil Hills, Permuda Island, static vegetation lines, erosion rates, Transportation, NCDOT, Environment, Location, ATLAS

THESAURUS ▶

TITLE User
CREATION DATE 2019-01-01 00:00:00
PUBLICATION DATE 2024-02-23 00:00:00

Hide Thesaurus ▲

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Combined Areas of Environmental Concern (AEC), February 2024 - NC Department of Transportation
CREATION DATE 2019-01-01 00:00:00
PUBLICATION DATE 2024-02-23 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 - Sweeping Environmental Group
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

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.

[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 919-707-6146

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

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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 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.

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.

Extents ►

EXTENT

DESCRIPTION

Data collection is complete.

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -84.422111
EAST LONGITUDE -75.416034
SOUTH LATITUDE 33.730557
NORTH LATITUDE 36.617257
EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT

BEGINNING DATE 2019-01-01 00:00:00
ENDING DATE 2024-02-23 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
* WEST LONGITUDE -78.651592
* EAST LONGITUDE -75.381104
* NORTH LATITUDE 36.606776
* SOUTH LATITUDE 33.758487
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 2105857.015408
* EAST LONGITUDE 3062878.427476
* SOUTH LATITUDE 21811.268580
* NORTH LATITUDE 1040001.436920
* 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 919-707-6146

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY **annually**

SCOPE OF THE UPDATES **dataset**

OTHER MAINTENANCE REQUIREMENTS

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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 **919-707-6146**

ADDRESS

TYPE **physical**

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

CITY **Raleigh**

ADMINISTRATIVE AREA **NC**

POSTAL CODE **27610**

COUNTRY **US**

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[Hide Contact information ▲](#)

[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 3048.0060960121918
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",36.166666666666666],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 CombinedAEC
* OBJECT TYPE composite
* OBJECT COUNT 11030

[Hide Vector ▲](#)

ARCgis FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME CombinedAEC
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 11030
* 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 2019-01-01 00:00:00

PUBLICATION DATE 2019-08-28 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 2019-01-01 00:00:00

PUBLICATION DATE 2019-08-28 00:00:00

[Hide Product specification ▲](#)

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

MEASURE DESCRIPTION

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 2019-01-01 00:00:00

PUBLICATION DATE 2019-08-28 00:00:00

[Hide Product specification ▲](#)

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

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

These 11 original AEC layers were merged to make this layer.

- ATLAS Coastal Estuarine Water Shorelines AEC
- ATLAS Coastal Public Trust Shorelines AEC
- ATLAS Estuarine Waters AEC
- ATLAS Ocean Hazard Erodible AEC
- ATLAS Public Trust AEC
- ATLAS Public Trust Unvegetated AEC
- ATLAS Public Water Supply Wellfields AEC
- ATLAS Significant Coastal Archaeological Resources AEC
- ATLAS Small Surface Supply Watershed AEC
- ATLAS Unique Coastal Geologic Formations AEC
- NC DEQ Inlet Hazard Area of Environmental Concern (IHAEC)

PROCESS STEP ►

DESCRIPTION

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

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Sweeping Environmental Group
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6146

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

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►
DESCRIPTION

Data was reviewed in ESRI's Data Reviewer tool to verify geometry.

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

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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 919-707-6146

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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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT
* NAME File Geodatabase Feature Class
VERSION 10.5

TRANSFER OPTIONS
* TRANSFER SIZE 707.843

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [CombinedAEC ►](#)

* TYPE Feature Class
* ROW COUNT 11030

DEFINITION
Presence layer for all AEC areas

DEFINITION SOURCE
NCDOT

FIELD [OBJECTID ►](#)

* ALIAS FID
* 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 Layer ▶

- * ALIAS Layer
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Name of the original AEC layer that falls at that location.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES

VALUE Coastal Estuarine Water Shorelines AEC
DESCRIPTION Coastal Estuarine Water Shorelines AEC
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Coastal Public Trust Shorelines AEC
DESCRIPTION Coastal Public Trust Shorelines AEC
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Estuarine Waters AEC
DESCRIPTION Estuarine Waters AEC
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Ocean Hazard Erodible AEC
DESCRIPTION Ocean Hazard Erodible AEC
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Public Trust AEC
DESCRIPTION Public Trust AEC
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Public Trust Unvegetated Beach AEC
DESCRIPTION Public Trust Unvegetated Beach AEC
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Public Water Supply Wellfields AEC

DESCRIPTION Public Water Supply Wellfields AEC
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Significant Coastal Archaeological Resources AEC
DESCRIPTION Significant Coastal Archaeological Resources AEC
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Small Surface Supply Watershed AEC
DESCRIPTION Small Surface Supply Watershed AEC
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Unique Coastal Geologic Formations AEC
DESCRIPTION Unique Coastal Geologic Formations AEC
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Various Inlet values
DESCRIPTION Inlet Hazard Area of Environmental Concern
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDEQ

Hide Field Layer ▲

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 ▲

[Hide Details for object CombinedAEC ▲](#)

[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 2024-04-18

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 2024-04-15 16:02:52
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-04-18 19:15:17

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-04-18 19:15:17

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2018-08-01 14:53:45
FROM C:\Users\ARadecki\Desktop\Axiom Environmental Inc\PhaseIV
TO \\ae-file\share\Business\Projects\15\15-020 McCormick Taylor LSA\15-020.08 NCDOT GIS Modeling\0_SWEEPing_Projects\06 Open Water ID\0_Round2\PhaseIV

[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 ►

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[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

OTHER MAINTENANCE REQUIREMENTS

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[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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