

NC Mines, August 2019 - NC Department of Transportation

File Geodatabase Feature Class



Tags

mine sites, mineral deposit areas, geoscientific information, economic geology, mineral resources, Transportation, NRTR, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in January 2019 from data downloaded in May 2018 as part of the Project ATLAS initiative at NCDOT to support the Natural Resources group with project delivery in the development phase. This dataset supports the production of the Natural Resources Technical Report (NRTR).

This layer is composed of a merged database comprised of both USGS and MRDS mine locations throughout the State of North Carolina.

Description

The NC Mines dataset is a point layer in a statewide GIS dataset for present and former mine locations. It was derived from a compilation of both the Mineral Resource Data System (MRDS) and the USGS Quad Geographic Names Information System "pick-axe" mines. This dataset is used primarily in project screening for/determining potential for bat habitats.

Datasets developed under Project ATLAS do not replace any NRTR 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 Natural Resources group within NCDOT was tasked to create this dataset. This dataset supports the production of the Natural Resources Technical Report (NRTR).

Annual maintenance of this dataset is handled by the Natural Resources 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 -84.422111 **East** -75.416034
North 36.617257 **South** 33.730557

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 environment, geoscientificInformation, location, transportation

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

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User
PUBLICATION DATE 2019-08-28 00:00:00
CREATION DATE 2019-01-01 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS mine sites, mineral deposit areas, geoscientific information, economic geology, mineral resources, Transportation, NRTR, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ▶

TITLE User
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Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

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CREATION DATE 2019-01-01 00:00:00
PUBLICATION DATE 2019-08-28 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 - Natural Resources 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

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

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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

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[Hide Resource Details ▲](#)

Extents ►

EXTENT
DESCRIPTION
Data collection is complete.

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
WEST LONGITUDE -84.422111
EAST LONGITUDE -75.416034
NORTH LATITUDE 36.617257
SOUTH LATITUDE 33.730557
* EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT
BEGINNING DATE 2018-05-24 00:00:00
ENDING DATE 2018-05-24 00:00:00

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE 435315.606169
* EAST LONGITUDE 2990842.734278

- * SOUTH LATITUDE 50069.520134
- * NORTH LATITUDE 1036936.838719
- * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Natural Resources Group
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 annually

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

Annual maintenance of this dataset is handled by the Natural Resources 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 - Natural Resources Group
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ►

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[Hide Resource Maintenance ▲](#)

Resource Constraints ►

CONSTRAINTS

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LEGAL CONSTRAINTS

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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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 NCMines
* OBJECT TYPE point
* OBJECT COUNT 5193

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME NCMines
* FEATURE TYPE Simple
* GEOMETRY TYPE Point
* HAS TOPOLOGY FALSE
* FEATURE COUNT 5193
* 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 - 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**

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

CREATION DATE **2019-01-01 00:00:00**

[Hide Product specification ▲](#)

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

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**

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

CREATION DATE **2019-01-01 00:00:00**

[Hide Product specification ▲](#)

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

Geometry checks were conducted using ESRI's Data Reviewer tool. Overlapping points were found and verified.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications

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

CREATION DATE 2019-01-01 00:00:00

[Hide Product specification ▲](#)

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

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

This dataset is a compilation of records from the USGS's MRDS and GNIS databases.

PROCESS STEP ►

DESCRIPTION

Point data was reviewed in ESRI's Data Reviewer tool to verify geometry. Overlapping points were found and verified.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Natural Resources Group

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

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 - Natural Resources Group
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[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

This dataset was compiled in May 2018 using a combination of data acquired from various USGS datasets.

MRDS data (<https://mrdata.usgs.gov/mrds/>) was reconciled with GNIS data (<https://geonames.usgs.gov/>) to create a dataset of mine locations within North Carolina. Each of the 129 GNIS records were cross-examined with the MRDS data (5183 total records) using the Relate tool to check mine site names for matches; any matches were notated in the GNIS data. All GNIS records were also examined spatially to check for like (but not matching) names in the vicinity of each mine site. A determination was made for each mine site whether the GNIS data or MRDS data would take precedence. All MRDS data and attributes were imported into this NC_Mines feature class, maintaining the source database schema. GNIS records determined to be included (62 total) were then appended to the feature class, while attributes were transferred where able. A new field, [GNIS_ID], was created to link the appended features back to their source GNIS database. 52 records in the original MRDS data were then removed from this dataset: 2 were lacking spatial reference (coordinates were set to [0,0]; this was also documented on the MRDS download page); 50 records were superceded by GNIS data as a result of the analysis. The resulting NC_Mines dataset contains 5193 total records.

PROCESS CONTACT

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

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

SOURCE DATA ►

DESCRIPTION

(MRDS): U.S. Geological Survey, 2005, Mineral Resources Data System: U.S. Geological Survey, Reston, Virginia.

Online Links:

<https://mrdata.usgs.gov/mrds/>

SOURCE MEDIUM NAME online link

SOURCE CITATION ▶

TITLE Mineral Resource Data System (MRDS)
PUBLICATION DATE 2016-03-15 00:00:00

RESOURCE LOCATION ONLINE

LOCATION <https://mrdata.usgs.gov/mrds/>
FUNCTION PERFORMED download

Hide Source citation ▲

Hide Source data ▲

SOURCE DATA ▶

DESCRIPTION

(GNIS): U.S. Geological Survey, 2018, Geographic Names Information System: U.S. Geological Survey, Reston, Virginia.

Online Links:

<https://geonames.usgs.gov/>

SOURCE MEDIUM NAME online link

SOURCE CITATION ▶

TITLE Geographic Names Information System (GNIS)
PUBLICATION DATE 2018-04-01 00:00:00

RESOURCE LOCATION ONLINE

LOCATION <https://geonames.usgs.gov/>
FUNCTION PERFORMED download

Hide Source citation ▲

Hide Source data ▲

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 ▶

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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 [NCMines ►](#)

* TYPE Feature Class
* ROW COUNT 5193

DEFINITION

NC Mine point locations throughout the state.

DEFINITION SOURCE

USGS

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 URL ►

- * ALIAS url
- * DATA TYPE String
- * WIDTH 60
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
URL of Mine Record

- DESCRIPTION SOURCE
MRDS

Hide Field URL ▲

FIELD Latitude ►

- * ALIAS latitude
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Geographic latitude of the site
Real numbers stored in double precision.

- DESCRIPTION SOURCE
USGS MRDS

Hide Field Latitude ▲

FIELD Longitude ►

- * ALIAS longitude
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Geographic longitude of the site
Real numbers stored in double precision.

- DESCRIPTION SOURCE
USGS MRDS

[Hide Field Longitude ▲](#)

FIELD County ►

- * ALIAS county
- * DATA TYPE String
- * WIDTH 40
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

County name. Name of the county in which the site is located.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field County ▲](#)

FIELD Commod1 ►

- ALIAS PriCommod
- * DATA TYPE String
- * WIDTH 125
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Primary commodities (materials) found in the mine based on commodity type in ComType

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Commod1 ▲](#)

FIELD Commod2 ►

- ALIAS SecCommod
- * DATA TYPE String
- * WIDTH 129
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Secondary commodities (materials) found in the mine based on commodity type in ComType

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Commod2 ▲](#)

FIELD Commod3 ►

- ALIAS TerCommod
- * DATA TYPE String
- * WIDTH 161
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Tertiary commodities (materials) found in the mine, based on commodity type in ComType

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Commod3 ▲](#)

FIELD Ore ►

- * ALIAS ore
- * DATA TYPE String
- * WIDTH 128
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Ore minerals or materials. Name of the ore mineral or material found in this deposit.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Ore ▲](#)

FIELD Gangue ►

- * ALIAS gangue
- * DATA TYPE String
- * WIDTH 128
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Gangue minerals or materials. Name of the gangue mineral or material found in this deposit.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Gangue ▲](#)

FIELD Model ►

- * ALIAS model
- * DATA TYPE String
- * WIDTH 75
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Mineral deposit model.

Mineral deposit models that characterize the site. Multiple models are delimited by braces, with a model number for each.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Model ▲](#)

FIELD Alteration ►

- * ALIAS alteration
- * DATA TYPE String
- * WIDTH 200
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Alteration processes. Geochemical alteration, if any, believed to have been important in forming or modifying the ore materials of a deposit.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Alteration ▲](#)

FIELD Names ▶

- * ALIAS names
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Name of Mine

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Names ▲](#)

FIELD Reporter ▶

- * ALIAS reporter
- * DATA TYPE String
- * WIDTH 128
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Names of the persons primarily responsible for entering information about the site.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Reporter ▲](#)

FIELD Structure ▶

- * ALIAS structure
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Structural characteristics. Description of geological structures at or near the deposit.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Structure ▲](#)

FIELD ProdSize ▶

- * ALIAS ProdSize
- * DATA TYPE String
- * WIDTH 12

- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Production size. A broad characterization of the magnitude of production at the site. The precise meanings of this field have changed over time and are lost to history; it is clear in retrospect that two different categorizations were used, a three-fold set based on magnitude (Small, Medium, Large) and a simple indicator (Yes or No), with some records showing U for unknown. Modern specialists would prefer that such a categorization take into account the type of deposit and commodity at the site, but there is no evidence that approach was taken in assigning values to this field.

DESCRIPTION SOURCE

USGS MRDS

LIST OF VALUES

VALUE Y

DESCRIPTION Yes, production has occurred

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE N

DESCRIPTION No, production has not occurred

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE S

DESCRIPTION Small amount of material produced (we do not know what criteria are used to make this determination)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE M

DESCRIPTION Medium amount of material produced (we do not know what criteria are used to make this determination)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE L

DESCRIPTION Large amount of material produced (we do not know what criteria are used to make this determination)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE U

DESCRIPTION Production statistics were not known to the reporters

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE no value

DESCRIPTION Information not available for this record.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

Hide Field ProdSize ▲

FIELD DevStat ►

- * ALIAS DevStat
- * DATA TYPE String
- * WIDTH 13
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Development status. Status of development of the resource or operation.

DESCRIPTION SOURCE

USGS MRDS

LIST OF VALUES

VALUE Occurrence

DESCRIPTION Ore mineralization in outcrop, shallow pit or pits, or isolated drill hole. Grade, tonnage, and extent of mineralization essentially unknown. No production has taken place and there has been no or little activity since discovery with the possible exception of routine claim maintenance.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Prospect

DESCRIPTION A deposit that has gone beyond the occurrence stage. That is subsequent work such as surface trenching, adits, or shafts, drill holes, extensive geophysics, geochemistry, and/or geologic mapping has been carried out. Enough work has been done to at least estimate grade and tonnage. The deposits may or may not have undergone feasibility studies that would lead to a decision on going into production.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Producer

DESCRIPTION A mine in production at the time the data was entered. An intermittent producer that produces on demand or seasonally with variable lengths of inactivity is considered a producer.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Past Producer

DESCRIPTION A mine formerly operating that has closed, where the equipment or structures may have been removed or abandoned.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Plant

DESCRIPTION A processing plant (smelter, refiner, beneficiation, etc.) that may or may not be currently producing at the time of data entry. A plant will have no geological information associated with it.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Unknown

DESCRIPTION At the time of data entry, either the development status was unknown or the data source this record came from did not specify this value.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

[Hide Field DevStat ▲](#)

FIELD Tectonic ►

- * ALIAS tectonic
- * DATA TYPE String
- * WIDTH 96
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Tectonic setting. Description of tectonic setting within which the deposit is found, includes regional geologic structure.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field Tectonic ▲](#)

FIELD REF ►

- * ALIAS ref
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Bibliographic references providing information supporting the database record. Braces delimit multiple references.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field REF ▲](#)

FIELD [OtherMatl ▶](#)

- * ALIAS OtherMatl
- * DATA TYPE String
- * WIDTH 210
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Other minerals or materials. Name of other minerals or materials found in this deposit.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field OtherMatl ▲](#)

FIELD [OrebodyFm ▶](#)

- * ALIAS OrebodyFm
- * DATA TYPE String
- * WIDTH 60
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Ore body form. Form and shape of the ore body.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field OrebodyFm ▲](#)

FIELD [WorkType ▶](#)

- * ALIAS WorkType
- * DATA TYPE String
- * WIDTH 27
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Workings type. General type of workings at the site.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field WorkType ▲](#)

FIELD [depID ▶](#)

- * ALIAS DepID
- * DATA TYPE String
- * WIDTH 12

- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Deposit identification number.

A unique 12-digit system generated sequence number which references records of information pertaining to a mineral property.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field depID ▲](#)

FIELD ConcProc ►

- * ALIAS ConcProc
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Concentration processes. Geological processes that are believed to have occurred to concentrate ore materials in the deposit.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field ConcProc ▲](#)

FIELD mrdsID ►

- * ALIAS mrdsID
- * DATA TYPE String
- * WIDTH 7
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

MRDS identification number. Identification number used to refer to this entry in the Mineral Resources Data System, if the record appeared in that database.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field mrdsID ▲](#)

FIELD OreCtrl ►

- * ALIAS OreCtrl
- * DATA TYPE String
- * WIDTH 200
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Ore controls. Geologic features, typically structural, that exert control over the form, extent, or character of the deposit.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field OreCtrl ▲](#)

FIELD **masID** ▶

- * ALIAS masID
- * DATA TYPE String
- * WIDTH 10
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

MAS/MILS identification number. Identification number for this site as it appeared in the Mineral Availability System/Mineral Industry Locator System database.

DESCRIPTION SOURCE

USGS MRDS

Hide Field masID ▲

FIELD **HrockUnit** ▶

- * ALIAS HrockUnit
- * DATA TYPE String
- * WIDTH 128
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Host rock unit name. Lithologic and stratigraphic information regarding the host rocks for the ore deposit.

DESCRIPTION SOURCE

USGS MRDS

Hide Field HrockUnit ▲

FIELD **HrockType** ▶

- * ALIAS HrockType
- * DATA TYPE String
- * WIDTH 128
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Host rock type.

DESCRIPTION SOURCE

USGS MRDS

Hide Field HrockType ▲

FIELD **ArockUnit** ▶

- * ALIAS ArockUnit
- * DATA TYPE String
- * WIDTH 128
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Associated rock unit name. Lithologic and stratigraphic information regarding the rocks for the ore deposit that are not specifically identified as host rock.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field ArockUnit ▲](#)

FIELD **ArockType** ▶

- * ALIAS ArockType
- * DATA TYPE String
- * WIDTH 160
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Associated rock type.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field ArockType ▲](#)

FIELD **SiteName** ▶

- * ALIAS SiteName
- * DATA TYPE String
- * WIDTH 70
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Name of the site, deposit, or operation. Current (preferred) form of the name of the site, deposit, or operation to which the record refers.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field SiteName ▲](#)

FIELD **ComType** ▶

- * ALIAS ComType
- * DATA TYPE String
- * WIDTH 1
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Commodity type. Type of commodities present: metallic (M), non-metallic (N), or both (B).

DESCRIPTION SOURCE
USGS MRDS

LIST OF VALUES

VALUE M

DESCRIPTION Metallic commodity

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE N

DESCRIPTION Non-metallic commodity

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE B

DESCRIPTION Commodity used in metallic and non-metallic forms
ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE no value

DESCRIPTION Information not available for this record.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

[Hide Field ComType ▲](#)

FIELD OperType ►

ALIAS OperationType

* DATA TYPE String

* WIDTH 19

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Operation type. Type of operation existing or proposed at the site.

DESCRIPTION SOURCE

USGS MRDS

LIST OF VALUES

VALUE Surface

DESCRIPTION Open-pit or open-cast mine in which the overburden is completely removed and the sides of the mine are typically terraced away from the center. The overburden and ore are usually transported out of the pit in trucks. Includes quarry operations which are often open at the front as well, and strip mines which are open at both ends.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Underground

DESCRIPTION The opening to the mine is small relative to the size of the workings. The opening is usually called a shaft or adit. The ore is transported out of the mine in cars, buckets, on conveyor belts, etc.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Surface-Underground

DESCRIPTION Both surface and underground operations are present

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Placer

DESCRIPTION A stream-sediment or beach-sand mine.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Offshore

DESCRIPTION Underwater mining operation such as for Mn nodules.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Well

DESCRIPTION The product is extracted through a borehole. Water, oil, and gas are the most common products, but includes solution-mining or in-situ leaching in which liquid solvent is circulated underground to extract the material.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Processing Plant

DESCRIPTION No ore extraction at the site, only a mill, smelter, etc.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Brine Operation

DESCRIPTION The product, usually a type of salt, produced from a well or open pan.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Leach

DESCRIPTION Ore or concentrate is placed on an impervious pad, and a solvent is percolated or forced through the heap. The desired mineral or solute is dissolved into the leachate, from which it is more easily refined.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Geothermal

DESCRIPTION Energy extracted from heat stored in the earth.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

VALUE Unknown

DESCRIPTION Unknown or undetermined by evaluator

ENUMERATED DOMAIN VALUE DEFINITION SOURCE USGS MRDS

Hide Field OperType ▲

FIELD DiscYr ►

* ALIAS DiscYr

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Discovery year.

DESCRIPTION SOURCE

USGS MRDS

Hide Field DiscYr ▲

FIELD YrPrdbegan ►

* ALIAS YrPrdbegan

* DATA TYPE String

* WIDTH 1

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Value < indicates production first began before the year specified in YR_FST_PRD; > indicates production began after that year.

DESCRIPTION SOURCE

USGS MRDS

Hide Field YrPrdbegan ▲

FIELD YrFirstProd ►

* ALIAS YrFirstProd

* DATA TYPE SmallInteger

* WIDTH 2

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Year of first production.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field YrFirstProd ▲](#)

FIELD YrPrdEnded ►

- * ALIAS YrPrdEnded
- * DATA TYPE String
- * WIDTH 1
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Value < indicates production ended before the year specified in YR_LST_PRD; > indicates production ended after that year.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field YrPrdEnded ▲](#)

FIELD YrLastProd ►

- * ALIAS YrLastProd
- * DATA TYPE SmallInteger
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Year of last production.

DESCRIPTION SOURCE

USGS MRDS

[Hide Field YrLastProd ▲](#)

FIELD DiscPriTo ►

- * ALIAS DiscPriTo
- * DATA TYPE String
- * WIDTH 1
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

If present, < in this field indicates that discovery occurred prior to the value in DISC_YR;

DESCRIPTION SOURCE

USGS MRDS

[Hide Field DiscPriTo ▲](#)

FIELD ProdYrs ►

- * ALIAS ProdYrs
- * DATA TYPE String
- * WIDTH 64
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Production years.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field ProdYrs ▲](#)

FIELD DepType ►

* ALIAS DepType
* DATA TYPE String
* WIDTH 40
* PRECISION 0
* SCALE 0

DESCRIPTION SOURCE
USGS MRDS

FIELD DESCRIPTION
General type of deposit or resource present at the site.

[Hide Field DepType ▲](#)

FIELD DiscResource ►

ALIAS DiscoveryResource
* DATA TYPE String
* WIDTH 64
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Name and address (if known) of the company, organization, or person most closely associated with the discovery of the resource.

DESCRIPTION SOURCE
USGS MRDS

[Hide Field DiscResource ▲](#)

FIELD GNISID ►

* ALIAS GNISID
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
GNIS identification number. Identification number used to refer to this entry in the Geographic Names Information System, if the record appeared in that database.

DESCRIPTION SOURCE
USGS GNIS

[Hide Field GNISID ▲](#)

[Hide Details for object NCMines ▲](#)

[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 14:12:45
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AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-01-29 16:08:49

[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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COUNTRY US
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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 Natural Resources 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 - Natural Resources Group
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ►

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Metadata Constraints ►

CONSTRAINTS

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 Natural Resources 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.

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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