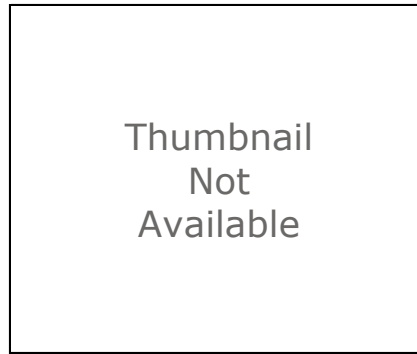


## CentralAsia\_deposits



### Tags

potash, mineral resource assessment, potash deposits, potash mines, potash occurrences, mineral resources, GIS, spatial database, geoscientificInformation

### Summary

CentralAsia\_deposits -- A spatial database of 66 evaporite-related potash deposits and occurrences in the Central Asia Jurassic Salt Basin (in Esri File Geodatabase feature class format). The spatial database was created for use in a geographic information system (GIS) as part of a global potash resource assessment by the U.S. Geological Survey.

### Description

This spatial database of evaporite-related potash deposits and occurrences provides location and descriptive information for 66 deposits and occurrences that are considered useful and (or) significant in assessing potash resources in the Central Asia Jurassic Salt Basin. The database contains location, geologic, and some limited economic data, as well as one or more references for each site. The purpose of this inventory is to document the geologic occurrence of (1) rocks enriched in water-soluble potassium minerals and (2) naturally-occurring brines enriched in potassium. Potash, as used in this report, refers to potassium-bearing minerals, ores, and processed products. Databases that summarize the distribution of known occurrences and their geologic setting are an integral part of a geologically-based evaluation of undiscovered mineral resources. The distribution of known occurrences allows us to understand the factors which control their distributions and to forecast areas with potential. These deposits and occurrences also serve as analogs for the types of resources that may be present; the size and composition of undiscovered deposits is likely to be similar to those that have been found. Three spatial databases describe potash deposits, permissive tracts, and thickness of potash mineralization in the Central Asia Jurassic Salt Basin. These data were used to assess the area for potash resources. Results of the assessment are provided in the spatial database CentralAsia\_tracts. Deposit data are provided in CentralAsia\_deposits, and thickness data are in CentralAsia\_thickness. All databases are stored as feature classes in the Esri file geodatabase (FGDB) CentralAsia\_potash.gdb. Preferred reference: Wynn, Jeff, Orris, G.J., Dunlap, Pamela, Cocker, M.D., and Bliss, J.D., 2016, Geology and undiscovered resource assessment of the potash-bearing Central Asia Salt Basin, Turkmenistan, Uzbekistan, Tajikistan, and Afghanistan: U.S. Geological Survey

Scientific Investigations Report SIR 2010-5090-AA, 106 p., and spatial data,  
<http://dx.doi.org/10.3133/sir20105090AA>.

## Credits

Greta J. Orris compiled the raw data into a spreadsheet format, standardized the data content, and proofed location information to the degree possible given the original data; Pamela Dunlap converted the data from a spreadsheet format to a spatial database (Esrifile geodatabase feature class of points), further standardized the data, wrote metadata, and did the initial preparation of the digital data for publication. John Wallis made final changes to spatial database and metadata.

## Use limitations

None. The U.S. Geological Survey (USGS) provides these geographic data "as is." The USGS makes no guarantee or warranty concerning the accuracy of information contained in the geographic data. The USGS further makes no warranties, either expressed or implied as to any other matter whatsoever, including, without limitation, the condition of the product, or its fitness for any particular purpose. The burden for determining fitness for use lies entirely with the user. Although these data have been processed successfully on computers of the USGS, no warranty, expressed or implied, is made by the USGS regarding the use of these data on any other system, nor does the fact of distribution constitute or imply such warranty. Locations for deposits and occurrences were derived from a variety of source maps, the smallest scale of which was about 1:1,000,000; thus, these data should not be used or portrayed at scales larger than 1:1,000,000 (for example, 1:500,000).

## Extent

There is no extent for this item.

## Scale Range

**Maximum (zoomed in)** 1:5,000

**Minimum (zoomed out)** 1:150,000,000

## ArcGIS Metadata ►

### Citation ►

TITLE CentralAsia\_deposits

*Hide Citation ▲*

### Resource Details ►

#### CREDITS

Greta J. Orris compiled the raw data into a spreadsheet format, standardized the data content, and proofed location information to the degree possible given the

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[Hide Resource Details ▲](#)

## Resource Constraints ►

### CONSTRAINTS

#### LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)

## Fields ►

### DETAILS FOR OBJECT [CentralAsia\\_deposits](#) ►

#### DEFINITION

FGDB Feature Class -- a collection of features with the same geometry type, the same attributes, and the same spatial reference.

#### DEFINITION SOURCE

Esri, accessed October 21, 2011 at <http://support.esri.com/en/knowledgebase/GISDictionary/term/feature%20class>

### FIELD [OBJECTID](#) ►

#### FIELD DESCRIPTION

Internal feature number.

#### DESCRIPTION SOURCE

ESRI

#### DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

*Hide Field OBJECTID ▲*

FIELD Shape ►

FIELD DESCRIPTION

Feature geometry.

DESCRIPTION SOURCE

ESRI

DESCRIPTION OF VALUES

Coordinates defining the features.

*Hide Field Shape ▲*

FIELD ID\_NO ►

FIELD DESCRIPTION

IDENTIFICATION NUMBER -- Unique numeric identifier.

RANGE OF VALUES

MINIMUM VALUE 1

MAXIMUM VALUE 995

*Hide Field ID\_NO ▲*

FIELD SITE\_NAME ►

FIELD DESCRIPTION

SITE NAME -- Name of site.

*Hide Field SITE\_NAME ▲*

FIELD ALT\_NAMES ►

FIELD DESCRIPTION

ALTERNATE NAMES -- Other name(s) for site.

*Hide Field ALT\_NAMES ▲*

FIELD TYPE\_REC ►

FIELD DESCRIPTION

TYPE of RECORD -- Site type.

#### LIST OF VALUES

VALUE area

DESCRIPTION Areas of mineralization, including geologic deposits, without data on size and grade.

VALUE deposit

DESCRIPTION Restricted to entities with known reserves and (or) resources, including production if the site has produced potash.

VALUE lease/concession/permit area

VALUE mine

DESCRIPTION Mine.

VALUE mineral occurrence

VALUE structure

DESCRIPTION Salt structure that has reported potash.

*Hide Field TYPE\_REC ▲*

#### FIELD COUNTRY ►

FIELD DESCRIPTION

COUNTRY -- Country.

DESCRIPTION SOURCE

United Nations, 2011, Composition of macro geographical (continental) regions, geographical sub-regions, and selected economic and other groupings: U.N. Statistics Division, accessed March 8, 2012, at <http://unstats.un.org/unsd/methods/m49/m49regin.htm>.

*Hide Field COUNTRY ▲*

#### FIELD LATITUDE ►

FIELD DESCRIPTION

LATITUDE -- Positive number represents latitude north of the equator.

RANGE OF VALUES

UNITS OF MEASURE decimal degrees

*Hide Field LATITUDE ▲*

#### FIELD LONGITUDE ►

FIELD DESCRIPTION

LONGITUDE -- Positive number represents longitude east of the Greenwich meridian.

RANGE OF VALUES

UNITS OF MEASURE    decimal degrees

*Hide Field LONGITUDE ▲*

FIELD BASIN ►

FIELD DESCRIPTION

BASIN -- Evaporite basin which contains potash mineralization.

LIST OF VALUES

VALUE    Central Asia Salt Basin

*Hide Field BASIN ▲*

FIELD BASIN\_TYPE ►

FIELD DESCRIPTION

BASIN TYPE -- Type of sedimentary basin.

LIST OF VALUES

VALUE    intracratonic basin

DESCRIPTION    A basin formed within the interior region of a continent, as a regional downwarp away from plate boundaries.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE    Middleton (1980), and Miall (1984).

*Hide Field BASIN\_TYPE ▲*

FIELD TRACT\_NAME ►

FIELD DESCRIPTION

TRACT NAME -- Informal name of permissive tract.

LIST OF VALUES

VALUE    Afghan-Tajik

VALUE    Amu Darya

VALUE    Gissar

*Hide Field TRACT\_NAME ▲*

FIELD DEP\_TYPE ►

FIELD DESCRIPTION

DEPOSIT TYPE -- Potash deposit type most likely to be present.

LIST OF VALUES

VALUE    evaporite-halokinetic

DESCRIPTION    Significantly disturbed by halokinesis; stratabound potash deposits

that have been subjected to halokinesis.

VALUE evaporite-mixed

DESCRIPTION mixed stratabound potash-bearing salt and potash-bearing halokinetic salt structure, queried where uncertain.

VALUE evaporite-stratabound

DESCRIPTION Evaporite mineralization in stratabound form; stratabound potash deposits are accumulations of relatively flat-lying and undeformed potassium chloride and potassium sulfate evaporite minerals intimately associated with halite and related basin wide evaporites.

*Hide Field DEP\_TYPE ▲*

#### FIELD COMMODS ►

##### FIELD DESCRIPTION

COMMODITIES -- Significant commodities present, queried if presence is uncertain; multiple commodities are listed in approximate order of significance (and are delimited by double spaces). Abbreviations are defined in the report.

##### LIST OF VALUES

VALUE BR

DESCRIPTION Bromine.

VALUE HAL

DESCRIPTION Halite.

VALUE K

DESCRIPTION Potash.

VALUE S

DESCRIPTION Sulfur.

*Hide Field COMMODS ▲*

#### FIELD K\_MINERALS ►

##### FIELD DESCRIPTION

POTASH MINERALS -- Potash minerals and materials known to be present, queried where uncertain; listed in approximate order of abundance or importance.

##### LIST OF VALUES

VALUE apththitalite

VALUE carnallite

VALUE sylvite

VALUE [no entry]

DESCRIPTION No entry indicates minerals and materials not determined and (or) not known.

*Hide Field K\_MINERALS ▲*

FIELD OTHER\_MINS ►

FIELD DESCRIPTION

OTHER MINERALS -- Other mineral(s) of significance or interest, queried where uncertain; listed in approximate order of abundance or importance.

LIST OF VALUES

VALUE anhydrite

VALUE halite

*Hide Field OTHER\_MINS ▲*

FIELD AGE\_ERA ►

FIELD DESCRIPTION

AGE as GEOLOGIC ERA -- Geologic era of potash mineralization.

DESCRIPTION SOURCE

International Commission on Stratigraphy, 2010, International stratigraphic chart: accessed February 27, 2011, at [http://www.stratigraphy.org/ics%20chart/09\\_2010/StratChart2010.pdf](http://www.stratigraphy.org/ics%20chart/09_2010/StratChart2010.pdf).

LIST OF VALUES

VALUE Mesozoic

*Hide Field AGE\_ERA ▲*

FIELD AGE\_PERIOD ►

FIELD DESCRIPTION

AGE as GEOLOGIC PERIOD -- Geologic period(s) of potash mineralization, queried where uncertain; multiple terms are delimited by hyphens.

DESCRIPTION SOURCE

International Commission on Stratigraphy, 2010, International stratigraphic chart: accessed February 27, 2011, at [http://www.stratigraphy.org/ics%20chart/09\\_2010/StratChart2010.pdf](http://www.stratigraphy.org/ics%20chart/09_2010/StratChart2010.pdf).

LIST OF VALUES

VALUE Jurassic

VALUE Jurassic-Cretaceous



*Hide Field AGE\_PERIOD ▲*

FIELD AGE\_EPOCH ►

FIELD DESCRIPTION

AGE as GEOLOGIC EPOCH -- Geologic epoch(s) of potash mineralization, queried where uncertain; multiple terms are delimited by hyphens.

DESCRIPTION SOURCE

International Commission on Stratigraphy, 2010, International stratigraphic chart: accessed February 27, 2011, at [http://www.stratigraphy.org/ics%20chart/09\\_2010/StratChart2010.pdf](http://www.stratigraphy.org/ics%20chart/09_2010/StratChart2010.pdf).

LIST OF VALUES

VALUE Upper Jurassic

VALUE Upper Jurassic-Lower Cretaceous

*Hide Field AGE\_EPOCH ▲*

FIELD AGE\_STAGE ►

FIELD DESCRIPTION

AGE as GEOLOGIC STAGE -- Geologic stage(s) of potash mineralization, queried where uncertain; multiple terms are delimited by hyphens.

DESCRIPTION SOURCE

International Commission on Stratigraphy, 2010, International stratigraphic chart: accessed February 27, 2011, at [http://www.stratigraphy.org/ics%20chart/09\\_2010/StratChart2010.pdf](http://www.stratigraphy.org/ics%20chart/09_2010/StratChart2010.pdf).

LIST OF VALUES

VALUE Kimmeridgian-Tithonian

VALUE Kimmeridgian-Tithonian-Berriasian-Valanginian(?)

*Hide Field AGE\_STAGE ▲*

FIELD MAX\_AGE ►

FIELD DESCRIPTION

MAXIMUM GEOLOGIC AGE -- Oldest age of potash mineralization; presented as a hyphen-delimited concatenation of geologic era, followed by geologic period, epoch, and stage.

DESCRIPTION SOURCE

International Commission on Stratigraphy, 2010, International stratigraphic chart: accessed February 27, 2011, at [http://www.stratigraphy.org/ics%20chart/09\\_2010/StratChart2010.pdf](http://www.stratigraphy.org/ics%20chart/09_2010/StratChart2010.pdf).

LIST OF VALUES

VALUE Mesozoic-Jurassic-Upper Jurassic-Kimmeridgian

*Hide Field MAX\_AGE ▲*

FIELD MIN\_AGE ►

FIELD DESCRIPTION

MINIMUM GEOLOGIC AGE -- Youngest age of potash mineralization, queried where uncertain; presented as a hyphen-delimited concatenation of geologic era, followed by geologic period, epoch, and stage.

DESCRIPTION SOURCE

International Commission on Stratigraphy, 2010, International stratigraphic chart: accessed February 27, 2011, at [http://www.stratigraphy.org/ics%20chart/09\\_2010/StratChart2010.pdf](http://www.stratigraphy.org/ics%20chart/09_2010/StratChart2010.pdf).

LIST OF VALUES

VALUE Mesozoic-Cretaceous-Lower Cretaceous-Valanginian(?)

VALUE Mesozoic-Jurassic-Upper Jurassic-Tithonian

*Hide Field MIN\_AGE ▲*

FIELD UNIT ►

FIELD DESCRIPTION

UNIT -- Host rock unit in which potash mineralization occurs.

LIST OF VALUES

VALUE Gaurdak Fm

VALUE Gaurdak Fm or equivalent

*Hide Field UNIT ▲*

FIELD LITH ►

FIELD DESCRIPTION

LITHOLOGY -- Lithology and (or) composition of the host rock and (or) unconsolidated sediment; multiple terms are delimited by commas.

LIST OF VALUES

VALUE anhydrite, limestone, rock salt

VALUE [no entry]

DESCRIPTION No entry indicates lithology(s) not determined and (or) not known.

*Hide Field LITH ▲*

FIELD **SALT\_STR** ►

FIELD DESCRIPTION

SALT STRUCTURE -- Name of salt structure associated with the potash site (attributed only where DEP\_TYPE = evaporite-halokinetic).

LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates salt structure(s) not determined and (or) not known.

*Hide Field SALT\_STR ▲*

FIELD **K\_THK\_M** ►

FIELD DESCRIPTION

POTASH THICKNESS in METERS -- Reported thickness of the potash or potash-bearing sequence(s).

LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates thickness not reported and (or) not known.

RANGE OF VALUES

UNITS OF MEASURE meter

*Hide Field K\_THK\_M ▲*

FIELD **K\_DEPTH\_M** ►

FIELD DESCRIPTION

POTASH DEPTH in METERS -- Reported depth to the top of the potash mineralization.

LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates depth not reported and (or) not known.

RANGE OF VALUES

UNITS OF MEASURE meters

*Hide Field K\_DEPTH\_M ▲*

FIELD **GEOL\_NOTES** ►

FIELD DESCRIPTION

Additional geologic information, if any, for site.

*Hide Field GEOL\_NOTES ▲*

#### FIELD AV\_K2O\_PCT ►

##### FIELD DESCRIPTION

AVERAGE GRADE in PERCENT K2O -- Reported average grade, in percent K2O, not associated with stated production or reserve information.

##### LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates grade not reported and (or) not known.

*Hide Field AV\_K2O\_PCT ▲*

#### FIELD FIGURES ►

##### FIELD DESCRIPTION

FIGURES -- Image(s) portraying one or more geologic aspects of the geology of the site, in PDF format; includes path name.

##### LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates graphic images for figure(s) not included.

*Hide Field FIGURES ▲*

#### FIELD P\_STATUS ►

##### FIELD DESCRIPTION

PRODUCTION STATUS -- Production and (or) development status, queried where uncertain; year in parentheses indicates date information was current.

##### LIST OF VALUES

VALUE Active Production

DESCRIPTION Site is producing potash.

VALUE None

DESCRIPTION Site did not produce potash.

VALUE Small Past Production

DESCRIPTION Site produced relatively minor amounts of potash.

*Hide Field P\_STATUS ▲*

#### FIELD P\_FIRST\_YR ►

##### FIELD DESCRIPTION

PRODUCTION FIRST YEAR -- Reported year of first potash production.

##### LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates year(s) not determined and (or) not known.

RANGE OF VALUES

UNITS OF MEASURE   year

*Hide Field P\_FIRST\_YR ▲*

FIELD P\_LAST\_YR ►

FIELD DESCRIPTION

PRODUCTION LAST YEAR -- Reported year of last potash production.

LIST OF VALUES

VALUE   [no entry]

DESCRIPTION   No entry indicates year(s) not determined and (or) not known.

RANGE OF VALUES

UNITS OF MEASURE   year

*Hide Field P\_LAST\_YR ▲*

FIELD COMPANY ►

FIELD DESCRIPTION

COMPANY -- Name of company.

LIST OF VALUES

VALUE   [no entry]

DESCRIPTION   No entry indicates company(s) not determined and (or) not known.

*Hide Field COMPANY ▲*

FIELD P\_ORE\_MT ►

FIELD DESCRIPTION

PRODUCTION of ORE in MILLION METRIC TONS -- Reported production of ore.

LIST OF VALUES

VALUE   [no entry]

DESCRIPTION   No entry indicates production not reported and (or) not known.

RANGE OF VALUES

UNITS OF MEASURE   million metric tons

*Hide Field P\_ORE\_MT ▲*

FIELD P\_K2O\_MT ►

FIELD DESCRIPTION

PRODUCTION of K2O in MILLION METRIC TONS -- Reported production of contained potash.

LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates production not reported and (or) not known.

RANGE OF VALUES

UNITS OF MEASURE million metric tons

*Hide Field P\_K2O\_MT ▲*

FIELD P\_K2O\_PCT ►

FIELD DESCRIPTION

PRODUCTION GRADE in PERCENT K2O -- Grade of reported production of potash, as percent K2O.

LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates production not reported and (or) not known.

*Hide Field P\_K2O\_PCT ▲*

FIELD P\_REFS ►

FIELD DESCRIPTION

PRODUCTION REFERENCES -- Abbreviated citation(s) for source reference(s) of production data provided in P\_ORE\_MT, P\_K2O\_MT, and P\_K2O\_PCT. Full references are listed in the report.

LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates production not reported and (or) not known.

*Hide Field P\_REFS ▲*

FIELD P\_YEARS ►

FIELD DESCRIPTION

PRODUCTION YEARS -- Year(s) or range of years of production data provided in P\_ORE\_MT, P\_K2O\_MT, and P\_K2O\_PCT.

LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates year of production not reported and (or) not known.

RANGE OF VALUES

UNITS OF MEASURE year

*Hide Field P\_YEARS ▲*

FIELD MEAS\_INVEN ►

FIELD DESCRIPTION

MEASURED INVENTORY -- Categorical field for known reserves or resources.

LIST OF VALUES

VALUE Yes

DESCRIPTION Reserves or resources are reported.

VALUE [no entry]

DESCRIPTION No entry indicates reserves or resources not reported and (or) not known.

*Hide Field MEAS\_INVEN ▲*

FIELD RR\_ORE\_MT ►

FIELD DESCRIPTION

RESERVES and (or) RESOURCES of ORE in MILLION METRIC TONS -- Reported reserves and (or) resources of ore; multiple values are delimited by semi-colons; values listed by number correspond to the respectively numbered values in RR\_REFS. Abbreviations are defined in the report.

LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates tonnage not reported and (or) not known.

RANGE OF VALUES

UNITS OF MEASURE million metric tons

*Hide Field RR\_ORE\_MT ▲*

FIELD RR\_K2O\_MT ►

FIELD DESCRIPTION

RESERVES and (or) RESOURCES of K2O in MILLION METRIC TONS -- Reported reserves and (or) resources of contained K2O; multiple values are delimited by semi-colons; values listed by number correspond to the respectively numbered values in RR\_REFS. Abbreviations are defined in the report.

LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates tonnage not reported and (or) not known.

RANGE OF VALUES

UNITS OF MEASURE million metric tons

*Hide Field RR\_K2O\_MT ▲*

#### FIELD RR\_K2O\_PCT ►

##### FIELD DESCRIPTION

RESERVES and (or) RESOURCES of K2O in PERCENT -- Reported reserves and (or) resources of contained K2O, in percent; multiple values are delimited by semi-colons; values listed by number correspond to the respectively numbered values in RR\_REFS. Abbreviations are defined in the report.

##### LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates grade not reported and (or) not known.

*Hide Field RR\_K2O\_PCT ▲*

#### FIELD RR\_REFS ►

##### FIELD DESCRIPTION

RESERVES and (or) RESOURCES REFERENCES -- Abbreviated citation(s) for source reference(s) of reserve and (or) resource data provided in RR\_ORE\_MT, RR\_K2O\_MT, and RR\_K2O\_PCT; multiple references are delimited by semi-colons; values listed by number correspond to the respectively numbered values in RR\_ORE\_MT, RR\_K2O\_MT, RR\_K2O\_PCT, and RR\_YEARS. Full references are listed in the report.

##### LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates reserves or resources not reported and (or) not known.

*Hide Field RR\_REFS ▲*

#### FIELD RR\_YEARS ►

##### FIELD DESCRIPTION

RESERVES and (or) RESOURCES YEARS -- Year(s) of reserve and (or) resource data provided in RR\_ORE\_MT, RR\_K2O\_MT, and RR\_K2O\_PCT; multiple years are delimited by semi-colons; values listed by number correspond to the respectively numbered values in RR\_ORE\_MT, RR\_K2O\_MT, RR\_K2O\_PCT, and RR\_REFS.

##### LIST OF VALUES

VALUE [no entry]

DESCRIPTION No entry indicates year(s) not determined and (or) not known.

*Hide Field RR\_YEARS ▲*

#### FIELD MISC\_NOTES ►

##### FIELD DESCRIPTION

MISCELLANEOUS NOTES -- Additional information, if any, for site. See report for definitions of abbreviations.



[Hide Field MISC\\_NOTES ▲](#)

FIELD SHORT\_REFS ►

FIELD DESCRIPTION

SHORT REFERENCES -- Abbreviated citation(s) for source reference(s) used in compiling the data; multiple citations are delimited by commas. Full references are listed in the report.

[Hide Field SHORT\\_REFS ▲](#)

[Hide Details for object CentralAsia\\_deposits ▲](#)

[Hide Fields ▲](#)

## Metadata Details ►

SCOPE OF THE DATA DESCRIBED BY THE METADATA    dataset

ARCGIS METADATA PROPERTIES

METADATA FORMAT    ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA    FGDC

LAST MODIFIED IN ARCGIS FOR THE ITEM    2016-02-10    14:36:36

[Hide Metadata Details ▲](#)

## FGDC Metadata (read-only) ▼