README for Indiana Geological and Water Survey Bedrock Geologic Map of the Indiana Portions of the Princeton, Evansville, Mount Vernon, and West Frankfort 30- x 60-Minute Quadrangles

TITLE:
Bedrock Geologic Database of the Indiana Portions of the Princeton, Evansville, Mount Vernon, and West Frankfort 30- x 60-Minute Quadrangles

ABSTRACT:
IN_PrincetonArea_100k_BG.gdb is an Esri File Geodatabase that contains one feature data set with five feature classes, and six geodatabase tables detailing the bedrock geology of the Indiana portion of Princeton and western adjoining 30- x 60-minute quadrangles. This data set conforms to "GeMS (Geologic Map Schema)--a standard format for the digital publication of geologic maps." For more information on GeMS please refer to the supplemental information within this metadata.

PURPOSE:
The Princeton Area geodatabase was created to present basic bedrock geologic information that contributes to the characterization of potential energy, mineral, and water resources. This map is based on data obtained from several thousand records including petroleum well drillers' logs, geophysical logs, water well drillers' logs, descriptions of cores recovered by the Indiana Geological and Water Survey, and seismic refraction records collected by the Indiana Geological and Water Survey. In addition, new geologic picks were completed for the IGWS NCRDS (National Coal Record Database System), the IGWS PDMS (Petroleum Database Management System), and available industry data. This database is, in large part, the result of a cooperative mapping agreement between the U.S. Geological Survey (USGS) and the Indiana Geological and Water Survey through the STATEMAP program of the USGS.

PROJECTION AND DATUM:
Projection: Universal Transverse Mercator (UTM), Zone 16N. Horizontal Datum: North American Datum of 1983 (NAD83).

SUPPLEMENTARY INFORMATION:
Bedrock Geologic Database of the Indiana Portions of the Princeton, Evansville, Mount Vernon, and West Frankfort 30- x 60-Minute Quadrangles is a composite geodata set that conforms to "GeMS (Geologic Map Schema)--a standard format for the digital publication of geologic maps," available at http://ngmdb.usgs.gov/Info/standards/GeMS/, and consists of the below files and folders

ARCGIS PRO MAP DOCUMENT:
IN_PrincetonArea_100k_BG.mapx (ArcGIS Pro 3.2.1)

ESRI GEODATABASES:
IN_PrincetonArea_100k_BG.gdb

GEMS SUPPLEMENTAL AND RESOURCE FILES:
IN_PrincetonArea_100k_BG.gdb-Validation.html (File)
IN_PrincetonArea_100k_BG.gdb-ValidationErrors.html (File)
IN_PrincetonArea_100k_BG_namescheck.xlsx (File)
IN_PrincetonArea_100k_BG.stylx (ArcPRO Style File)

GEMS GEODATABASES:
The GeMS compliant database contents are described below.
IN_PrincetonArea_100k_BG.gdb.....(Geodatabase)
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GeologicMap.....(Feature data set)
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InterpretativePoints.....(Point feature class)
GenericPoints.....(Point feature class)
ContactsAndFaults.....(Polyline feature class)
MapUnitOverlayPolys.....(Polygon feature class)
MapUnitPolys.....(Polygon feature class)
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DataSources.....(Non-spatial table)
DescriptionOfMapUnits.....(Non-spatial table)
GeoMaterialDict.....(Non-spatial table)
Glossary.....(Non-spatial table)
MapInformation.....(Non-spatial table)
GenericStratPicks.....(Non-spatial table)
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METADATA:

Metadata files are valid for both the geodatabase feature classes and open-access shapefiles.
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IN_PrincetonArea_100k_BG-metadata.xml.....(Geodatabase feature level FGDC-compliant metadata)

OPEN-ACCESS VERSIONS:
To improve access to this product, open-access and simple version folders of these data are included with this release.
Some field names may have been truncated when converting from geodatabase feature classes to shapefiles.

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GM_InterpretativePoints.....(Shapefile)
GM_GenericPoints.....(Shapefile)
GM_MapUnitOverlayPolys.....(Shapefile)
GM_OverlayPolys.....(Shapefile)
GM_ContactsAndFaults.shp.....(Shapefile)
GM_MapUnitPolys.shp.....(Shapefile)

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DataSources.txt.....(Non-spatial table)
DescriptionOfMapUnits.txt.....(Non-spatial table)
Glossary.txt.....(Non-spatial table)
GeoMaterialDict.txt.....(Non-spatial table)
GenericStratPicks.....(Non-spatial table)
logfile.txt.....(Non-spatial table)
MapInformation.txt.....(Non-spatial table)

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DataSources.csv.....(Non-spatial table)
DescriptionOfMapUnits.csv.....(Non-spatial table)
Glossary.csv.....(Non-spatial table)
GeoMaterialDict.csv.....(Non-spatial table)
GenericStratPicks.csv.....(Non-spatial table)
MapInformation.csv.....(Non-spatial table)