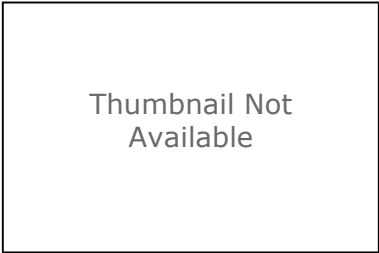


Potentiometric Surface Map of The Bedrock Aquifers of Miami County, Indiana

Shapefile



Tags

Potentiometric surface, static water level, groundwater, water wells, water tables, Miami County, Indiana, USA

Summary

Display and/or analyses requiring spatial distribution of potentiometric surface elevations in Miami County.

Description

This file is a digital geospatial polyline coverage of the bedrock potentiometric surface elevations mapped for Miami County Indiana.

Credits

There are no credits for this item.

Use limitations

See access and use constraints information.

Extent

West -86.171102 **East** -85.857363
North 40.949743 **South** 40.560974

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE geoscientificInformation

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS Miami, Indiana, USA

THEME KEYWORDS Potentiometric surface, static water level, groundwater, water wells, water tables

Hide Topics and Keywords ▲

Citation ►

TITLE Potentiometric Surface Map of The Bedrock Aquifers of Miami County, Indiana

CREATION DATE 2013-06-28 00:00:00

EDITION 1

PRESENTATION FORMATS *digital map

SERIES

NAME Bedrock Potentiometric Surface Map

ISSUE PSM 28-B

OTHER CITATION DETAILS This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Amboy, Bunker Hill, Deedsville, Galveston, Macy, Miami, Onward, Peoria, Peru, Richvalley, Roann, Somerset, Sweetser,

and Twelve Mile.

[Hide Citation](#) ▲

Citation Contacts ▶

RESPONSIBLE PARTY

INDIVIDUAL'S NAME Glenn E. Grove
ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water
CONTACT'S POSITION Resource Assessment Section
CONTACT'S ROLE originator

CONTACT INFORMATION ▶

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FAX 317-233-4579

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POSTAL CODE 46204
COUNTRY UNITED STATES
E-MAIL ADDRESS ggrove@dnr.IN.gov

HOURS OF SERVICE 8:15am - 4:15pm M-F except Government Holidays

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RESPONSIBLE PARTY

ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water
CONTACT'S ROLE publisher

CONTACT INFORMATION ▶

ADDRESS

DELIVERY POINT Indianapolis, Indiana, USA

[Hide Contact information](#) ▲

[Hide Citation Contacts](#) ▲

Resource Details ▶

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

SPATIAL REPRESENTATION TYPE *vector

*PROCESSING ENVIRONMENT Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; Esri ArcGIS 10.1.1.3143

ARCGIS ITEM PROPERTIES

*NAME BED_PSM_Miami_CO_IN
*SIZE 0.471
*LOCATION file://
\\iotfilp19pw\dnr\dow\common\RA_FILES_ONLINE\28_Miami\28_Miami_County_PSM_shapefiles\BED_PSM_Miami_CO_IN.shp
*ACCESS PROTOCOL Local Area Network

[Hide Resource Details](#) ▲

Extents ▶

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -86.171102

* EAST LONGITUDE -85.857363

* NORTH LATITUDE 40.949743

* SOUTH LATITUDE 40.560974

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 570169.770300

* EAST LONGITUDE 596175.214200

* SOUTH LATITUDE 4490642.873300

* NORTH LATITUDE 4533512.741500

* EXTENT CONTAINS THE RESOURCE Yes

Hide Extents ▲

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Glenn E. Grove

ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water

CONTACT'S POSITION Resource Assessment Section

CONTACT INFORMATION ►

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Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

Hide Resource Maintenance ▲

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

See access and use constraints information.

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS other restrictions

OTHER CONSTRAINTS

The Indiana Department of Natural Resources, Division of Water has compiled this data set using data believed to be reasonably accurate. However, the Division makes no representation as to the accuracy, completeness, or usefulness of the data or data set. A degree of error is inherent in all maps. This map is intended for use only at the published scale. Reference to any specific commercial product, process, or service does not constitute an endorsement, recommendation, or favoring by the Division. Copyright 2013, Indiana Department of Natural Resources, Division of Water All Rights Reserved Any copying, adaptation, or distribution of these data without the express written consent of the Indiana Department of Natural Resources, Division of Water is discouraged.

Hide Resource Constraints ▲

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- *TYPE Projected
- *GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- *PROJECTION NAD_1983_UTM_Zone_16N
- *COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 26916

X ORIGIN -5120900

Y ORIGIN -9998100

XY SCALE 450445547.3910538

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.001

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 26916

WELL-KNOWN TEXT PROJCS["NAD_1983_UTM_Zone_16N",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["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-87.0],PARAMETER["Scale_Factor",0.9996],PARAMETER["Latitude_Of_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26916]]

REFERENCE SYSTEM IDENTIFIER

- *VALUE 26916
- *CODESPACE EPSG
- *VERSION 7.11.2

Hide Spatial Reference ▲

Spatial Data Properties ►

VECTOR ►

- *LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME BED_PSM_Miami_CO_IN

- *OBJECT TYPE composite
- *OBJECT COUNT 69

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BED_PSM_Miami_CO_IN

- *FEATURE TYPE Simple
- *GEOMETRY TYPE Polyline

- *HAS TOPOLOGY FALSE
- *FEATURE COUNT 69
- *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 In conducting the mapping, the author(s) evaluated hundreds of water well records, especially those having relatively complete information on well location, static water level, well depth, ground elevation, and lithology. There were areas in the county with sparse information because of lack of well records or incomplete records.

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION The mapping was conducted after a thorough documentation of well locations and water well record details.

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

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►

MEASURE DESCRIPTION The locations of many wells were field checked and the locations posted on 7.5 minute topographic maps. Visual confirmation of wells was not always possible. Many locations were based only on the street address, driving directions, or other location information provided on the well record.

[Hide Data quality report - Absolute external positional accuracy ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

PROCESS STEP ►

DESCRIPTION After selection of water well records was complete, specific well data and other maps and reports were considered in the mapping process. For example, ground elevation, static water level, well depth, aquifer top and bottom elevation and lithology were obtained from well records. Other maps and reports included regional potentiometric surface elevations, hydrogeologic settings, groundwater availability, bedrock topography, and surface topography.

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION Data were selected by careful evaluation of water well records to determine if the wells were field located and if they contained complete and reasonable information.

[Hide Process step ▲](#)

PROCESS STEP ►

RATIONALE A polyline coverage was created using the heads-up method and attributed by Glenn E. Grove. Attribute definitions are described below.

[Hide Process step ▲](#)

SOURCE DATA ▶

DESCRIPTION Water well records from the IDNR-DOW well record database; USGS topography maps; various consultant geotechnical reports

SOURCE CITATION ▶

TITLE Potentiometric Surface Map of the Bedrock Aquifers of Miami County, Indiana

EDITION 1

SERIES

NAME Bedrock Potentiometric Surface Map

ISSUE PSM 28-B

RESPONSIBLE PARTY

INDIVIDUAL'S NAME Glenn E. Grove

ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE originator

RESPONSIBLE PARTY

ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water

CONTACT'S ROLE publisher

[Hide Source citation ▲](#)

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

Geoprocessing history ▶

PROCESS

PROCESS NAME

DATE 2013-06-05 14:15:09

TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField bed_miami_co_in_psm County "Miami" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-06-25 13:52:55

TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Analysis Tools.tbx\Clip

COMMAND ISSUED

Clip bed_miami_co_in_psm Miami_boundary C:\!potenimetric\Default.gdb\bed_miami_co_in_psm_Clip #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-06-25 13:54:12

TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Analysis Tools.tbx\Erase

COMMAND ISSUED

Erase bed_miami_co_in_psm_Clip bed_no_data_miami J:\!
Potenimetric\Miami\review\bed_miami_co_in_psm_review.shp #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-08-06 11:31:35

TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CopyFeatures

COMMAND ISSUED

CopyFeatures J:\!Potentiometric\Miami\review\bed_miami_co_in_psm_review.shp C:\!poteniometric\Default.gdb\Miami\bed_miami_co_in_psm_review # 0 0 0

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

INDIVIDUAL'S NAME Glenn E. Grove

ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE distributor

CONTACT INFORMATION ►

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[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

*NAME Shapefile

TRANSFER OPTIONS

*TRANSFER SIZE 0.471

ONLINE SOURCE

LOCATION <http://www.in.gov/dnr/water/7256.htm>

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT BED_PSM_Miami_CO_IN ►

*TYPE Feature Class

*ROW COUNT 69

FIELD FID ►

*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 FID ▲](#)

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 STATIC_E ▶

*ALIAS static_e

*DATA TYPE SmallInteger

*WIDTH 4

*PRECISION 4

*SCALE 0

FIELD DESCRIPTION
Potentiometric surface in feet

DESCRIPTION SOURCE
IDNR

[Hide Field STATIC_E ▲](#)

[Hide Details for object BED_PSM_Miami_CO_IN ▲](#)

[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 2013-08-30

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2013-08-21 14:08:20

LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-08-30 11:47:47

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2013-08-30 11:47:47

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2013-08-21 14:08:20

FROM J:\!Potentiometric\Miami\Shapefiles\BED_PSM_Miami_CO_IN

To \\iotfilp19pw\dnr\dow\common\RA_FILES_ONLINE\28_Miami\BED_PSM_Miami_CO_IN

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

INDIVIDUAL'S NAME Glenn E. Grove

ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS other restrictions

OTHER CONSTRAINTS

Access constraints: This metadata file is intended to accompany the subject geospatial set. This file may be updated, and the most recent version is available by contacting the IDNR Division of Water.

[Hide Metadata Constraints ▲](#)

FGDC Metadata (read-only) ▼