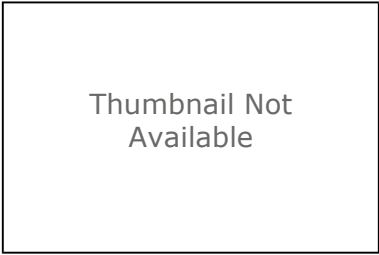


# Potentiometric Surface Map Of The Unconsolidated Aquifers of Miami County, Indiana

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 unconsolidated 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 -86.173835 East -85.856395  
North 41.000854 South 40.560725

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

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

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 Unconsolidated Aquifers of Miami County, Indiana

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

EDITION 1

EDITION DATE 2013-06-28

PRESENTATION FORMATS \*digital map

SERIES

NAME Unconsolidated Potentiometric Surface Map

**OTHER CITATION DETAILS** This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Amboy, Bunker Hill, Deedsville, Galveston, Macy, Miami, Onward, Peoria, Peru, Richvalley, Roann,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

#### PHONE

**VOICE** 317-232-4160

**FAX** 317-233-4579

#### ADDRESS

**TYPE** both

**DELIVERY POINT** 402 W. Washington Street W264

**CITY** Indianapolis

**ADMINISTRATIVE AREA** Indiana

**POSTAL CODE** 46204

**COUNTRY** UNITED STATES

**E-MAIL ADDRESS** [ggrove@dnr.IN.gov](mailto:ggrove@dnr.IN.gov)

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

[Hide Contact information ▲](#)

### 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** UNC\_PSM\_Miami\_CO\_IN

**\*SIZE** 0.454

**\*LOCATION** file://

\\iotfilp19pw\dnr\dow\common\RA\_FILES\_ONLINE\28\_Miami\28\_Miami\_County\_PSM\_shapefiles\UNC\_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    -86.173835

\* EAST LONGITUDE    -85.856395

\* NORTH LATITUDE    41.000854

\* SOUTH LATITUDE    40.560725

\* EXTENT CONTAINS THE RESOURCE    Yes

#### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE    569938.604300

\* EAST LONGITUDE    596182.481700

\* SOUTH LATITUDE    4490615.414600

\* NORTH LATITUDE    4539184.893100

\* 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 ►

##### PHONE

VOICE    317-232-4160

FAX    317-233-4579

##### ADDRESS

TYPE    both

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CITY    Indianapolis

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COUNTRY    UNITED STATES

E-MAIL ADDRESS    [ggrove@dnr.IN.gov](mailto:ggrove@dnr.IN.gov)

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

[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    UNC\_PSM\_Miami\_CO\_IN

- \* OBJECT TYPE    composite
- \* OBJECT COUNT    61

[Hide Vector ▲](#)

## ARCgis Feature Class Properties ▶

FEATURE CLASS NAME   UNC\_PSM\_Miami\_CO\_IN

- \*FEATURE TYPE   Simple
- \*GEOMETRY TYPE   Polyline
- \*HAS TOPOLOGY   FALSE
- \*FEATURE COUNT   61
- \*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 Unconsolidated Aquifers of Miami County, Indiana

**EDITION** 1

**SERIES**

**NAME** Unconsolidated Potentiometric Surface Map

**ISSUE** PSM 28-A

**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** 2013-05-23 11:14:57

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

**COMMAND ISSUED**

CalculateField unc\_miami\_co\_in\_psm miami\_lines "miami" VB #

**INCLUDE IN LINEAGE WHEN EXPORTING METADATA** No

PROCESS

**PROCESS NAME**

**DATE** 2013-05-23 11:15:44

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

**COMMAND ISSUED**

CalculateField unc\_miami\_co\_in\_psm county\_lines "miami" VB #

**INCLUDE IN LINEAGE WHEN EXPORTING METADATA** No

PROCESS

**PROCESS NAME**

**DATE** 2013-06-25 11:33:24

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

**COMMAND ISSUED**

Clip unc\_miami\_co\_in\_psm Miami\_boundary J:\!Potentiometric\Miami\review\unc\_miami\_co\_in\_psm\_review3.shp #

**INCLUDE IN LINEAGE WHEN EXPORTING METADATA** No

PROCESS

PROCESS NAME  
DATE 2013-06-25 11:40:21  
TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Analysis Tools.tbx\Erase  
COMMAND ISSUED  
Erase unc\_miami\_co\_in\_psm\_review3 nodata\_miami2 J:\!  
Potentiometric\Miami\review\unc\_miami\_co\_in\_psm\_review4.shp #  
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME  
DATE 2013-08-06 11:31:37  
TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CopyFeatures  
COMMAND ISSUED  
CopyFeatures J:\!Potentiometric\Miami\review\unc\_miami\_co\_in\_psm\_review4.shp C:\!  
poteniotermic\Default.gdb\Miami\unc\_miami\_co\_in\_psm\_review4 # 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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ADDRESS  
TYPE both  
DELIVERY POINT 402 W. Washington Street W264  
CITY Indianapolis  
ADMINISTRATIVE AREA Indiana  
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  
*Hide Contact information ▲*

*Hide Distributor ▲*

DISTRIBUTION FORMAT

\* NAME Shapefile

TRANSFER OPTIONS

\* TRANSFER SIZE 0.454

ONLINE SOURCE

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

*Hide Distribution ▲*

**Fields ►**

DETAILS FOR OBJECT UNC\_PSM\_Miami\_CO\_IN ►

\*TYPE Feature Class

\*ROW COUNT 61

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 UNC\_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 14:11:54

LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-08-30 11:48:24

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2013-08-30 11:48:24

#### ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2013-08-21 14:11:54

FROM J:\!Potentiometric\Miami\Shapefiles\UNC\_PSM\_Miami\_CO\_IN

TO \\iotfilp19pw\dnr\dow\common\RA\_FILES\_ONLINE\28\_Miami\UNC\_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

#### CONTACT INFORMATION ►

##### PHONE

VOICE 317-232-4160

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##### ADDRESS

TYPE both

DELIVERY POINT 402 W. Washington Street W264

CITY Indianapolis

ADMINISTRATIVE AREA Indiana

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

[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) ▼**