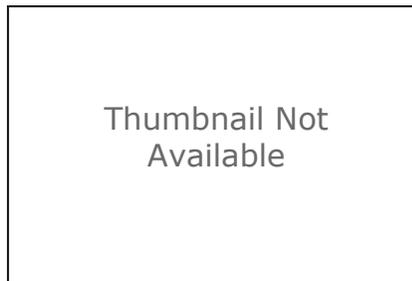


# Potentiometric Surface Map of the Unconsolidated Aquifers of Ohio County, Indiana

## Shapefile



## Tags

Potentiometric surface, static water level, groundwater, water wells, water tables, unconsolidated, Indiana Department of Natural Resources (IDNR), Division of Water (DOW), Ohio County, Indiana, USA

## Summary

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

## Description

This file is a digital geospatial polyline coverage of the unconsolidated potentiometric surface elevations mapped for Ohio County, Indiana.

## Credits

It is requested that the Indiana Department of Natural Resources, Division of Water be cited in any products generated from this data.

## Use limitations

Acknowledgement of the following agency in products derived from these data: Indiana Department of Natural Resources, Division of Water. This map was compiled by staff of the Indiana Department of Natural Resources, Division of Water using data believed to be reasonably accurate. However, a degree of error is inherent in all maps. This product is distributed "as-is" without any warranties of any kind, either expressed or implied. The maps are intended for use only at the published scale. The information on these media is proprietary to the State of Indiana, Indiana Department of Natural Resources, Division of Water. Any copying, adaptation, or distribution of these data without the express written consent of the INDR-DOW is discouraged. It is not recommended that these data be used for purposes other than general estimate of static water level elevations. Site specific conditions may vary considerably from mapped estimates.

## Extent

**West** -84.880045    **East** -84.838393  
**North** 39.022606    **South** 38.930061

## 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 Ohio County, Indiana, USA

THEME KEYWORDS unconsolidated

THEME KEYWORDS static water level

THEME KEYWORDS groundwater

THEME KEYWORDS water wells

THEME KEYWORDS Indiana Department of Natural Resources (IDNR)

THEME KEYWORDS Division of Water (DOW)

*Hide Topics and Keywords ▲*

### Citation ►

TITLE Potentiometric Surface Map of the Unconsolidated Aquifers of Ohio County, Indiana

CREATION DATE 2017-07-24 00:00:00

PUBLICATION DATE 2017-11-01 00:00:00

EDITION 1

PRESENTATION FORMATS \* digital map

#### SERIES

NAME Unconsolidated Potentiometric Surface Map

ISSUE PSM 72-A

#### OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Aberdeen, Aurora, Bear Branch, Cross Plains, Lawrenceburg, and Rising Sun.

*Hide Citation ▲*

### Citation Contacts ►

#### RESPONSIBLE PARTY

ORGANIZATION'S NAME Indiana Department of Natural Resources

CONTACT'S ROLE publisher

## CONTACT INFORMATION ►

## ADDRESS

## TYPE

DELIVERY POINT Indianapolis, Indiana, USA

[Hide Contact information ▲](#)

## RESPONSIBLE PARTY

INDIVIDUAL'S NAME Kristiana E. Cox

ORGANIZATION'S NAME Indiana Department of Natural Resources

CONTACT'S POSITION Resource Assesment Section

CONTACT'S ROLE originator

## CONTACT INFORMATION ►

## PHONE

VOICE 317-232-4160

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CITY Indianapolis

ADMINISTRATIVE AREA Indiana

POSTAL CODE 46204

COUNTRY US

E-MAIL ADDRESS [kcox3@dnr.IN.gov](mailto:kcox3@dnr.IN.gov)

## HOURS OF SERVICE

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

[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 Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.5.1.7333

## CREDITS

It is requested that the Indiana Department of Natural Resources, Division of Water be cited in any products generated from this data.

## ARCGIS ITEM PROPERTIES

\* NAME UNC\_PSM\_Ohio\_Co\_IN

\* SIZE 0.013

\* LOCATION file:///\\iotisip01pa\dnrgis\$\

Potentiometric\Ohio\2\_Shapefiles\Shapefiles\_FINAL\_Map\UNC\_PSM\_Ohio\_Co\_IN.shp

\* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)**Extents ▶**

## EXTENT

## DESCRIPTION

Extent used for searching

## GEOGRAPHIC EXTENT

## BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -84.880045

\* EAST LONGITUDE -84.838393

\* NORTH LATITUDE 39.022606

\* SOUTH LATITUDE 38.930061

\* EXTENT CONTAINS THE RESOURCE Yes

## EXTENT

## DESCRIPTION

Publication Date

## TEMPORAL EXTENT

DATE AND TIME 2017-11-15 00:00:00

## EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 683758.242874

\* EAST LONGITUDE 687128.963717

\* SOUTH LATITUDE 4311231.199495

\* NORTH LATITUDE 4321428.964338

\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)**Resource Points of Contact ▶**

## POINT OF CONTACT

INDIVIDUAL'S NAME Kristiana E. Cox

ORGANIZATION'S NAME Indiana Department of Natural Resources

CONTACT'S POSITION Resource Assesment Section

CONTACT'S ROLE point of contact

## 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 ►

### 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 2017, 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.

### OTHER CONSTRAINTS

This file is available to anyone, but access may be contingent on written request, specific terms relevant to the agency or person making the request, and/or current freedom of information statutes in the State of Indiana.

### CONSTRAINTS

#### LIMITATIONS OF USE

Acknowledgement of the following agency in products derived from these data: Indiana Department of Natural Resources, Division of Water. This map was compiled by staff of the Indiana Department of Natural Resources, Division of Water using data believed to be reasonably accurate. However, a degree of error is inherent in all maps. This product is distributed "as-is" without any warranties of any kind, either expressed or implied. The maps are intended for use only at the published scale. The information on these media is proprietary to the State of Indiana, Indiana Department of Natural Resources, Division of Water. Any copying, adaptation, or distribution of these data without the express written consent of the INDR-DOW is discouraged. It is not recommended that these data be used for purposes other than general estimate of static water level elevations. Site specific conditions may vary considerably from mapped estimates.

[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 6.13(3.0.1)

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME UNC\_PSM\_Ohio\_Co\_IN  
 \* OBJECT TYPE composite  
 \* OBJECT COUNT 7

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME UNC\_PSM\_Ohio\_Co\_IN  
 \* FEATURE TYPE Simple  
 \* GEOMETRY TYPE Polyline  
 \* HAS TOPOLOGY FALSE  
 \* FEATURE COUNT 7  
 \* SPATIAL INDEX FALSE  
 \* 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 ▶  
 WHEN THE PROCESS OCCURRED 2017-06-26 00:00:00  
 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 ▶

WHEN THE PROCESS OCCURRED 2017-07-24 00:00:00

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 ▲*

SOURCE DATA ►

DESCRIPTION

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

SOURCE CITATION ►

TITLE Unconsolidated Potentiometric Surface Map Ohio County, Indiana

*Hide Source citation ▲*

*Hide Source data ▲*

*Hide Lineage ▲*

## Geoprocessing history ►

PROCESS

PROCESS NAME

DATE 2017-11-29 13:21:04

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.5\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField UNC\_PSM\_Ohio\_Co\_IN Static\_E [Id] VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

*Hide Geoprocessing history ▲*

## Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

INDIVIDUAL'S NAME Kristiana E. Cox

ORGANIZATION'S NAME Indiana Department of Natural Resources

CONTACT'S POSITION Resource Assesment Section

CONTACT'S ROLE distributor

CONTACT INFORMATION ►

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 COUNTRY US  
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## 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 0.013

[Hide Distribution ▲](#)

## Fields ►

### DETAILS FOR OBJECT UNC\_PSM\_Ohio\_Co\_IN ►

\* TYPE Feature Class  
 \* ROW COUNT 7

#### 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 Integer
- \* WIDTH 6
- \* PRECISION 6
- \* SCALE 0

*Hide Field Static\_E ▲*

*Hide Details for object UNC\_PSM\_Ohio\_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 2017-11-30

### 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 2017-10-31 15:38:13  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-11-30 10:06:31

### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
LAST UPDATE 2017-11-30 09:49:09

### ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2017-10-31 15:38:13  
FROM M:\!Potentiometric\Ohio\3\_Working\UNC\_PSM\_OHIO\_CO\_IN  
TO \\iotisip01pa\dngis\$\!  
Potentiometric\Ohio\2\_Shapefiles\Shapefiles\_FINAL\_Map\UNC\_PSM\_OHIO\_CO\_IN

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

### METADATA CONTACT

INDIVIDUAL'S NAME Kristiana E. Cox  
 ORGANIZATION'S NAME Indiana Department of Natural Resources  
 CONTACT'S POSITION Resource Assesment Section  
 CONTACT'S ROLE point of contact

### CONTACT INFORMATION ►

#### PHONE

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TYPE both  
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 POSTAL CODE 46204  
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 E-MAIL ADDRESS kcox3@dnr.IN.gov

#### HOURS OF SERVICE

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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) ▼