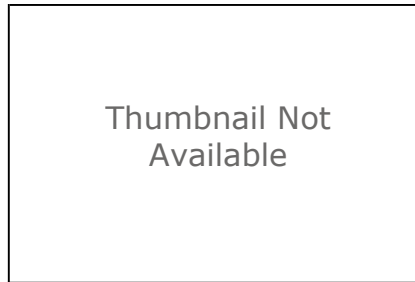


# Potentiometric Surface Map of the Unconsolidated Aquifers of Sullivan County, Indiana

## Shapefile



## Tags

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

## Summary

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

## Description

This file is a digital geospatial polyline coverage of the unconsolidated potentiometric surface elevations mapped for Sullivan 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

<b>West</b>	-87.651416	<b>East</b>	-87.382941
<b>North</b>	39.259345	<b>South</b>	38.901242

## 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** Sullivan 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 Sullivan County, Indiana

**CREATION DATE** 2017-04-14 00:00:00

**PUBLICATION DATE** 2017-06-09 00:00:00

**EDITION** 1

**PRESENTATION FORMATS** \* digital map

#### **SERIES**

**NAME** Unconsolidated Potentiometric Surface Map

**ISSUE** PSM 67-A

#### **OTHER CITATION DETAILS**

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Bucktown, Carlisle, Dugger, Fairbanks, Heathsville, Hutton, Hymera, Jasonville, Lewis, Linton, Merom, Saline City, Shelburn, and Sullivan.

*Hide Citation ▲*

### Citation Contacts ►

#### RESPONSIBLE PARTY

INDIVIDUAL'S NAME Kristiana E. Cox  
ORGANIZATION'S NAME IDNR Division of Water, Resource Assessment Section  
CONTACT'S ROLE originator

#### RESPONSIBLE PARTY

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

#### CONTACT INFORMATION ►

##### ADDRESS

##### TYPE

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

STATUS completed

SPATIAL REPRESENTATION TYPE \* vector

\* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.4.1.5686

#### 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\_Sullivan\_Co\_IN  
\* SIZE 0.042  
\* LOCATION file:///\\state.in.us\\file1\\dnr\\shared\\dnr1\\dow\\common\\RA\_FILES\_ONLINE\\67\_Sullivan\\Shapefiles\\UNC\_PSM\_Sullivan\_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 -87.651416

\* EAST LONGITUDE -87.382941

\* NORTH LATITUDE 39.259345

\* SOUTH LATITUDE 38.901242

\* EXTENT CONTAINS THE RESOURCE Yes

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

\* WEST LONGITUDE 443798.031300

\* EAST LONGITUDE 466794.916331  
\* SOUTH LATITUDE 4306017.016659  
\* NORTH LATITUDE 4345627.637768  
\* 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, 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

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CITY Indianapolis

ADMINISTRATIVE AREA Indiana

POSTAL CODE 46204

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 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\_Sullivan\_Co\_IN

\* OBJECT TYPE composite

\* OBJECT COUNT 18

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME UNC\_PSM\_Sullivan\_Co\_IN

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Polyline

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 18

\* 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 ►

WHEN THE PROCESS OCCURRED 2016-10-03 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 2017-04-14 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 Sullivan County, Indiana

CREATION DATE 2017-04-14 00:00:00

PUBLICATION DATE 2017-06-09 00:00:00

EDITION 1

#### SERIES

NAME Unconsolidated Potentiometric Surface Mao  
ISSUE PSM 67-A

#### RESPONSIBLE PARTY

INDIVIDUAL'S NAME Kristiana E. Cox  
ORGANIZATION'S NAME IDNR Division of Water, Resource Assessment Section  
CONTACT'S ROLE originator

#### RESPONSIBLE PARTY

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

#### CONTACT INFORMATION ►

##### ADDRESS

##### TYPE

DELIVERY POINT Indianapolis, Indiana, USA

[Hide Contact information ▲](#)

[Hide Source citation ▲](#)

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

## Distribution ►

#### DISTRIBUTOR ►

##### CONTACT INFORMATION

INDIVIDUAL'S NAME Kristiana E. Cox  
ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water  
CONTACT'S POSITION Resource Assessment Section  
CONTACT'S ROLE distributor

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CITY Indianapolis

ADMINISTRATIVE AREA Indiana

POSTAL CODE 46204

COUNTRY US

##### 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 0.042

#### ONLINE SOURCE

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

[Hide Distribution](#) ▲

## Fields ►

#### DETAILS FOR OBJECT [UNC\\_PSM\\_Sullivan\\_Co\\_IN](#) ►

\* TYPE Feature Class

\* ROW COUNT 18

#### 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 String  
\* WIDTH 50  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Unconsolidated contour lines of static water levels.

[Hide Field Static\\_E ▲](#)

[Hide Details for object UNC\\_PSM\\_Sullivan\\_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 2017-07-21

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0  
STANDARD OR PROFILE USED TO EDIT METADATA FGDC  
METADATA STYLE FGDC CSDGM Metadata

CREATED IN ARCGIS FOR THE ITEM 2017-07-21 13:31:57  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-07-21 13:58:25

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
LAST UPDATE 2017-07-21 13:58:25

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2017-07-21 13:31:57  
FROM M:\!  
Potentiometric\Sullivan\2\_Shapefiles\Shapefiles\_FINAL\_Map\UNC\_PSM\_Sullivan\_Co\_IN  
TO \\state.in.us\file1\dnr\shared\dnr1  
\dow\common\RA\_FILES\_ONLINE\67\_Sullivan\Shapefiles\UNC\_PSM\_Sullivan\_Co\_IN

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

METADATA CONTACT

INDIVIDUAL'S NAME Kristiana E. Cox  
ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water  
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

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FAX 317-233-4579

ADDRESS

TYPE both

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CITY Indianapolis

ADMINISTRATIVE AREA Indiana

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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 Metadata Contacts ▲](#)

## 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) ▼