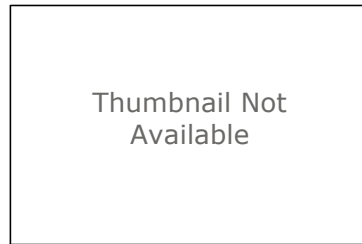


# Bedrock Limited Aquifer Data and Nonaquifer Areas for Sullivan County, Indiana

## Shapefile



## Tags

No data zone, water wells, bedrock aquifer, Indiana Department of Natural Resources (IDNR), Division of Water (DOW), Sullivan County, Indiana, USA

## Summary

Display and/or analyses requiring spatial distribution of lack of static water levels in bedrock aquifers in Sullivan County.

## Description

This file is a digital geospatial polygon coverage of the lack of available aquifer static water level data within bedrock aquifers for Sullivan County in 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** -87.659993    **East** -87.239856  
**North** 39.260803    **South** 38.899991

## 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 bedrock

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 Bedrock Limited Aquifer Data and Nonaquifer Areas for Sullivan County, Indiana

CREATION DATE 2016-12-09 00:00:00

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

EDITION 1

PRESENTATION FORMATS \* digital map

### SERIES

NAME Bedrock Potentiometric Surface Map

ISSUE PSM 67-B

### 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

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 ▲](#)

### RESPONSIBLE PARTY

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

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#### ADDRESS

TYPE  
DELIVERY POINT 402 W. Washington Street W264  
CITY Indianapolis  
ADMINISTRATIVE AREA Indiana  
POSTAL CODE 46204  
E-MAIL ADDRESS kcox3@dnr.in.gov

ONLINE RESOURCE  
LOCATION www.in.gov/dnr/water/7256.htm  
FUNCTION PERFORMED information

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 10.4.1.5686

### 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 BED\_Limited\_Data\_Nonaquifer\_Sullivan\_Co\_IN  
\* SIZE 0.112  
\* LOCATION file:///\\iotisip01pa\dnrgis\$\!  
Potentiometric\Sullivan\2\_Shapefiles\Shapefiles\_FINAL\_Map\BED\_Limited\_Data\_Nonaquifer\_Sullivan\_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 -87.659993

\* EAST LONGITUDE -87.239856

\* NORTH LATITUDE 39.260803

\* SOUTH LATITUDE 38.899991

\* EXTENT CONTAINS THE RESOURCE Yes

### EXTENT

#### DESCRIPTION

Publication Date

#### TEMPORAL EXTENT

DATE AND TIME 2017-04-14 00:00:00

### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 443058.875365

\* EAST LONGITUDE 479201.704671

\* SOUTH LATITUDE 4305883.499834  
\* NORTH LATITUDE 4345746.499834  
\* 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 point of contact

### CONTACT INFORMATION ►

#### PHONE

VOICE 317-232-4160  
FAX 317-233-4579

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DELIVERY POINT 402 W. Washington Street W264  
CITY Indianapolis  
ADMINISTRATIVE AREA Indiana  
POSTAL CODE 46204  
E-MAIL ADDRESS kcox3@dnr.in.gov

### ONLINE RESOURCE

LOCATION [www.in.gov/dnr/water/7256.htm](http://www.in.gov/dnr/water/7256.htm)  
FUNCTION PERFORMED download

### 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

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### LEGAL CONSTRAINTS

#### LIMITATIONS OF USE

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.

ACCESS CONSTRAINTS   other restrictions

#### 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.

[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  BED_Limited_Data_Nonaquifer_Sullivan_Co_IN
* OBJECT TYPE  composite
* OBJECT COUNT  2
```

[Hide Vector ▲](#)

#### ARCGIS FEATURE CLASS PROPERTIES ►

```
FEATURE CLASS NAME  BED_Limited_Data_Nonaquifer_Sullivan_Co_IN
* FEATURE TYPE  Simple
```

- \* GEOMETRY TYPE Polygon
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 2
- \* 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. This layer is based on areas in the county with sparse information because of lack of well records or incomplete records, or poorly producing aquifers.

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►  
MEASURE DESCRIPTION

The layer was created 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 2017-04-14 00:00:00  
DESCRIPTION

Coverage was selected by careful evaluation of the lack of water well records within an area by determine a minimum of one mile from available data. Using field located wells that contained complete and reasonable information a half mile buffer was applied. Areas outside of the compiled buffer were considered a no data zone and delineated as such.

PROCESS 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 processor

CONTACT INFORMATION ►

PHONE

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FAX 317-233-4579

ADDRESS

TYPE both  
DELIVERY POINT 402 W. Washington Street W264  
CITY Indianapolis  
ADMINISTRATIVE AREA Indiana  
POSTAL CODE 46204  
COUNTRY US  
E-MAIL ADDRESS kcox3@dnr.in.gov

ONLINE RESOURCE

LOCATION www.in.gov/dnr/water/7256.htm  
FUNCTION PERFORMED download

HOURS OF SERVICE

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

*Hide Contact information ▲*

SOURCE DATA ►

DESCRIPTION

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

*Hide Source data ▲*

*Hide Process step ▲*

SOURCE DATA ►

DESCRIPTION

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

*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 originator

CONTACT INFORMATION ►

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LOCATION www.in.gov/dnr/water/7256.htm  
FUNCTION PERFORMED download

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 0.112

ONLINE SOURCE

LOCATION www.in.gov/dnr/water/7256.htm  
DESCRIPTION Data and Maps

[Hide Distribution ▲](#)

## Fields ►

DETAILS FOR OBJECT [BED\\_Limited\\_Data\\_Nonaquifer\\_Sullivan\\_Co\\_IN ►](#)

\* TYPE Feature Class

\* ROW COUNT 2

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 Zone ▶

- \* ALIAS Zone
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

[Hide Field Zone ▲](#)

[Hide Details for object BED\\_Limited\\_Data\\_Nonaquifer\\_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 2017-07-19

### ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0  
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2017-04-03 11:22:06  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-07-19 12:11:05

### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
LAST UPDATE 2017-07-19 12:11:05

### ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2016-11-01 15:24:22  
FROM M:\!Potentiometric\Sullivan\3\_Working\BED\_LIMITED\_DATA\_NONAQUIFER\_SULLIVAN\_CO\_IN  
TO \\jotisp01pa\dnrgis\$\!  
Potentiometric\Sullivan\3\_Working\BED\BED\_LIMITED\_DATA\_NONAQUIFER\_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 POSITION Resource Assessment Section  
CONTACT'S ROLE originator

### CONTACT INFORMATION ▶

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VOICE 317-232-4160  
FAX 317-233-4579

#### ADDRESS

TYPE both  
DELIVERY POINT 402 W. Washington Street W264  
CITY Indianapolis  
ADMINISTRATIVE AREA Indiana  
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#### ONLINE RESOURCE

LOCATION www.in.gov/dnr/water/7256.htm  
FUNCTION PERFORMED download

#### 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) ▼