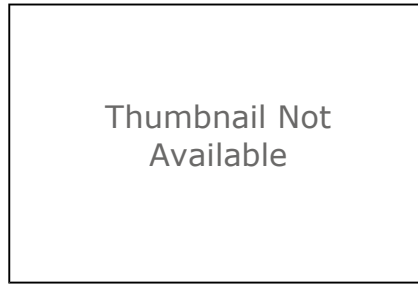


# Potentiometric Surface Map of the Bedrock Aquifers of Adams County, Indiana

## Shapefile



## Tags

There are no tags for this item.

## Summary

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

## Description

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

## Credits

There are no credits for this item.

## Use limitations

See access and use constraints information.

## Extent

**West** -85.083499 **East** -84.791907  
**North** 40.922078 **South** 40.564853

## Scale Range

There is no scale range for this item.

## ArcGIS Metadata ►

## Topics and Keywords ►

\* CONTENT TYPE Downloadable Data  
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

*Hide Topics and Keywords ▲*

## Citation ►

**TITLE** Potentiometric Surface Map of the Bedrock Aquifers of Adams County, Indiana

**EDITION** 1

**PRESENTATION FORMATS** digital map

### SERIES

**NAME** Bedrock Potentiometric Surface Map

**ISSUE** PSM 12-B

**OTHER CITATION DETAILS** This map was compiled from multiple unpublished work maps based on USGS quadrangles at

1:24,000 scale: Berne, Decatur, Dixon, Domestic, Geneva, Hoagland, Linn Grove, New Corydon, Poe, Preble, Wilshire, and Wren.

[Hide Citation](#) ▲

## Citation Contacts ►

### RESPONSIBLE PARTY

ORGANIZATION'S NAME Robert K. Schmidt, 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 ()

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

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\_Adams\_CO\_IN

\* SIZE 0.107

\* LOCATION file:///\\iotfilp19pw\dnr\dow\common\RA\_FILES\_ONLINE\12\_Adams  
Revision\files\BED\_PSM\_Adams\_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 -85.083499

\* EAST LONGITUDE -84.791907

\* NORTH LATITUDE 40.922078

\* SOUTH LATITUDE 40.564853

\* EXTENT CONTAINS THE RESOURCE Yes

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

- \* WEST LONGITUDE 662228.740524
- \* EAST LONGITUDE 685943.279946
- \* SOUTH LATITUDE 4492771.809980
- \* NORTH LATITUDE 4531894.047812
- \* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

#### POINT OF CONTACT

INDIVIDUAL'S NAME Robert K. Schmidt  
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

##### ADDRESS

##### TYPE

DELIVERY POINT 402 W. Washington Street W264  
CITY Indianapolis  
ADMINISTRATIVE AREA Indiana  
POSTAL CODE 46204  
COUNTRY US  
E-MAIL ADDRESS [rschmidt@dnr.IN.gov](mailto:rschmidt@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 2012, 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.

#### CONSTRAINTS

##### LIMITATIONS OF USE

See access and use constraints information.

[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\_Adams\_CO\_IN

\*OBJECT TYPE composite

\*OBJECT COUNT 13

[Hide Vector](#) ▲

## ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BED\_PSM\_Adams\_CO\_IN

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Polyline

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 13

\* 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 ▶

WHEN THE PROCESS OCCURRED 2012-03-01 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 2012-03-01 00:00:00

DESCRIPTION The hand-drawn work maps (scale 1:24,000) showing lines of equal potentiometric surface elevation were digitized and edge matched in ESRI ArcEdit (ArcScan) by Scott H. Dean. The maps were individually georeferenced using a minimum of 4 tics per map. Projection was UTM, Zone 16, NAD83.

[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 PSM, Adams County, Indiana

PUBLICATION DATE 2012-03-01 00:00:00

EDITION 1

#### SERIES

NAME Bedrock Potentiometric Surface Map

ISSUE PSM 12-B

#### RESPONSIBLE PARTY

ORGANIZATION'S NAME Robert K. Schmidt, 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, IN

[Hide Contact information ▲](#)

[Hide Source citation ▲](#)

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

## Geoprocessing history ▶

## PROCESS

PROCESS NAME FeatureClassToFeatureClass\_16

DATE 2007-01-02 11:26:21

TOOL LOCATION C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Conversion Tools.tbx\FeatureClassToFeatureClass

### COMMAND ISSUED

```
FeatureClassToFeatureClass G:\PublishedData\County-Boundary_INDOT_2004.shp "C:\Documents and Settings\stburns\Application Data\ESRI\INDOT_COE_LIBRARY\INDOT@CoE_Library.sde"
COUNTY_BOUNDARY_INDOT_IN # "OBJECTID_1 OBJECTID_1 true false false 9 Long 0
9 ,First,#,G:\PublishedData\County-Boundary_INDOT_2004.shp,OBJECTID_1,-1,-1;OBJECTID OBJECTID
true false false 9 Long 0 9 ,First,#,G:\PublishedData\County-
Boundary_INDOT_2004.shp,OBJECTID,-1,-1;AREA AREA true false false 13 Float 0
0 ,First,#,G:\PublishedData\County-Boundary_INDOT_2004.shp,AREA,-1,-1;PERIMETER PERIMETER
true false false 13 Float 0 0 ,First,#,G:\PublishedData\County-
Boundary_INDOT_2004.shp,PERIMETER,-1,-1;COUNTY_NEW COUNTY_NEW true false false 9 Long 0
9 ,First,#,G:\PublishedData\County-Boundary_INDOT_2004.shp,COUNTY_NEW,-1,-1;COUNTY_N_1
COUNTY_N_1 true false false 9 Long 0 9 ,First,#,G:\PublishedData\County-
Boundary_INDOT_2004.shp,COUNTY_N_1,-1,-1;Shape_Leng Shape_Leng true false false 19 Double 0
0 ,First,#,G:\PublishedData\County-Boundary_INDOT_2004.shp,Shape_Leng,-1,-1;dissolve dissolve
true false false 5 Text 0 0 ,First,#,G:\PublishedData\County-
Boundary_INDOT_2004.shp,dissolve,-1,-1;Name Name true false false 50 Text 0
0 ,First,#,G:\PublishedData\County-Boundary_INDOT_2004.shp,Name,-1,-1;Shape_Le_1 Shape_Le_1
true false false 19 Double 0 0 ,First,#,G:\PublishedData\County-
Boundary_INDOT_2004.shp,Shape_Le_1,-1,-1;Shape_Area Shape_Area true false false 19 Double 0
0 ,First,#,G:\PublishedData\County-Boundary_INDOT_2004.shp,Shape_Area,-1,-1" INDOT
"C:\Documents and Settings\stburns\Application
Data\ESRI\INDOT_COE_LIBRARY\INDOT@CoE_Library.sde\INDOT.COUNTY_BOUNDARY_INDOT_IN"
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

PROCESS NAME

DATE 2012-04-18 10:39:52

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\FeatureToLine

### COMMAND ISSUED

```
FeatureToLine Adams_County_Boundary J:\!
Potentiometric\Adams\Shapefiles\Adams_Work_UNC_PSM.shp # ATTRIBUTES
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

## Distribution ►

### DISTRIBUTOR ►

#### CONTACT INFORMATION

INDIVIDUAL'S NAME Robert K. Schmidt

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

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE distributor

#### CONTACT INFORMATION ►

##### PHONE

VOICE 317-232-4160

FAX 317-233-4579

##### ADDRESS

###### TYPE

DELIVERY POINT 402 W. Washington Street W264

CITY Indianapolis

ADMINISTRATIVE AREA Indiana

POSTAL CODE 46204  
COUNTRY US  
E-MAIL ADDRESS [rschmidt@dnr.IN.gov](mailto:rschmidt@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 0.107

#### ONLINE SOURCE

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

[Hide Distribution](#) ▲

## Fields ►

#### DETAILS FOR OBJECT [BED\\_PSM\\_Adams\\_CO\\_IN](#) ►

\* TYPE Feature Class

\* ROW COUNT 13

#### 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

[Hide Field STATIC\\_E ▲](#)

[Hide Details for object BED\\_PSM\\_Adams\\_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 2013-11-07

### 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 2012-04-18 10:45:04  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-11-07 07:24:33

### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
LAST UPDATE 2013-11-07 07:24:33

### ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2012-04-18 10:45:04  
FROM J:\!Potentiometric\Adams\Shapefiles\Adams\_Work\_UNC\_PSM  
TO \\iotfilp19pw\dnr\dow\TS\Water\_Resources\_and\_Rights\!  
Potentiometric\Adams\Shapefiles\Adams\_Work\_UNC\_PSMCopy

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

### METADATA CONTACT

INDIVIDUAL'S NAME Robert K. Schmidt  
ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water  
CONTACT'S ROLE point of contact

## CONTACT INFORMATION ►

### PHONE

VOICE 317-232-4160

FAX 317-233-4579

### ADDRESS

#### TYPE

DELIVERY POINT 402 W. Washington Street W264

CITY Indianapolis

ADMINISTRATIVE AREA Indiana

POSTAL CODE 46204

COUNTRY US

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

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) ▼