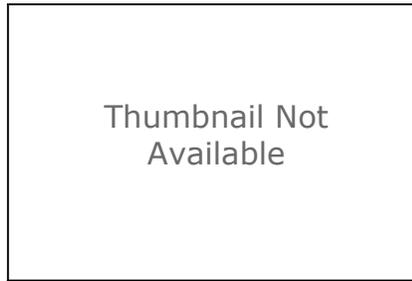


Potentiometric Surface Map of the Bedrock Aquifers of Vanderburgh County, Indiana

Shapefile



Tags

Potentiometric surface, static water level, groundwater, water wells, water tables, Vanderburgh County, Indiana, USA

Summary

Display and/or analyses requiring spatial distribution of potentiometric surface elevations in Vanderburgh County, Indiana.

Description

This file is a digital geospatial polyline coverage of the bedrock potentiometric surface elevations mapped for Vanderburgh 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 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 IDNR-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 -87.701202 **East** -87.449299
North 38.164565 **South** 37.887688

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 [Vanderburgh County, 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 Bedrock Aquifers of Vanderburgh County, Indiana](#)
PUBLICATION DATE [2017-10-31 00:00:00](#)

EDITION [1](#)

PRESENTATION FORMATS [* digital map](#)

SERIES

NAME [Bedrock Potentiometric Surface Map](#)
ISSUE [PSM 70-B](#)

OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Cynthiana, Daylight, Elberfeld, Evansville North, Evansville South, Haubstadt, Henderson, Kasson, Newburgh, West Franklin, and Wilson.

[Hide Citation ▲](#)

Citation Contacts ►

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CONTACT'S POSITION [Resource Assessment Section](#)
CONTACT'S ROLE [originator](#)

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[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 BED_PSM_Vanderburgh_CO_IN
 * SIZE 0.598
 * LOCATION file:///\\iotisip01pa\dnrgis\$!\Potentiometric\Vanderburgh\1_Web_Products\BED_PSM_Vanderburgh_CO_IN.shp
 * ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION
 Latitude Longitude

EXTENT

GEOGRAPHIC EXTENT
 BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
 * WEST LONGITUDE -87.701202
 * EAST LONGITUDE -87.449299
 * NORTH LATITUDE 38.164565
 * SOUTH LATITUDE 37.887688
 * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 438572.744000
 * EAST LONGITUDE 460493.235100
 * SOUTH LATITUDE 4193583.894100
 * NORTH LATITUDE 4224170.229700
 * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

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[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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LEGAL CONSTRAINTS

ACCESS CONSTRAINTS other restrictions

OTHER CONSTRAINTS

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[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_PSM_Vanderburgh_CO_IN
- * OBJECT TYPE composite
- * OBJECT COUNT 112

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

- FEATURE CLASS NAME BED_PSM_Vanderburgh_CO_IN
- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polyline
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 112
- * 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 ►

- DIMENSION horizontal

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 ►

- DIMENSION horizontal

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**

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 ►**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**

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 Bedrock Aquifers of Vanderburgh County, Indiana
PUBLICATION DATE 2017-10-31 00:00:00

EDITION 1

SERIES

NAME Bedrock Potentiometric Surface Map
ISSUE PSM 70-B

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 ▲

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
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[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.598

ONLINE SOURCE

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

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [BED_PSM_Vanderburgh_CO_IN ►](#)

* TYPE Feature Class

* ROW COUNT 112

DEFINITION

polyline

DEFINITION SOURCE

ESRI

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 10
- * PRECISION 10
- * SCALE 0

FIELD DESCRIPTION

Static water elevation based on subtracting the ground surface elevation (Lidar data) from the static water level given on the water well record.

DESCRIPTION SOURCE

Lidar data and water well records

Hide Field static_e ▲

Hide Details for object BED_PSM_Vanderburgh_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 2017-11-08

ARCGIS METADATA PROPERTIES

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

CREATED IN ARCGIS FOR THE ITEM 2017-10-10 11:22:33
LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-11-08 08:18:29

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2017-11-08 08:18:29

[Hide Metadata Details ▲](#)

Metadata Contacts ►

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Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

[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) ▼