

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

Shapefile

Thumbnail Not
Available

Tags

Potentiometric surface, static water level, groundwater, water wells, bedrock aquifer, Indiana Department of Natural Resources (IDNR), Division of Water (DOW), Blackford County, Indiana, USA

Summary

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

Description

This file is a digital geospatial polyline coverage of the bedrock potentiometric surface elevations mapped for Blackford 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 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	-85.448796	East	-85.201921
North	40.569807	South	40.375511

Scale Range

Maximum (zoomed in)	1:50,000
Minimum (zoomed out)	1:5,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE geoscientificInformation

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS Blackford County, Indiana, USA

THEME KEYWORDS Bedrock

THEME KEYWORDS potentiometric surface

THEME KEYWORDS static water level

THEME KEYWORDS groundwater

THEME KEYWORDS water wells

THEME KEYWORDS Blackford County

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 Bedrock Aquifers of Blackford County, Indiana

CREATION DATE 2013-09-01 00:00:00

PUBLICATION DATE 2013-09-01 00:00:00

EDITION 1

PRESENTATION FORMATS *digital map

SERIES

NAME Bedrock Potentiometric Surface Map
ISSUE PSM 31-B

OTHER CITATION DETAILS This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Hartford City East, Hartford City West, Montpelier, Pennville, Petroleum, and Roll

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

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

CONTACT INFORMATION ►

ADDRESS

DELIVERY POINT Indianapolis, Indiana, USA

[Hide Contact information ▲](#)

RESPONSIBLE PARTY

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water
INDIVIDUAL'S NAME Ginger C. Korinek
CONTACT'S POSITION Resource Assessment Section
CONTACT'S ROLE originator

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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 XP Version 5.1 (Build 2600) Service Pack 3; Esri ArcGIS 10.1.1.3143

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_BLACKFORD_CO_IN

*SIZE 0.057

*LOCATION file:///iotfilp19pw\dnr\dow\TS\Water_Resources_and_Rights\!

Potentiometric\Blackford\1_Web_Products\31_Blackford_Co_PSM_Shapefiles\BED_PSM_BLACKFORD_CO_IN.shp

*ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

Extent used for searching

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -85.644456

EAST LONGITUDE -85.331288

SOUTH LATITUDE 40.998355

NORTH LATITUDE 41.189792

EXTENT CONTAINS THE RESOURCE Yes

EXTENT

DESCRIPTION

Publication Date

TEMPORAL EXTENT

DATE AND TIME 2013-09-01 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -85.448796

* EAST LONGITUDE -85.201921

* NORTH LATITUDE 40.569807

* SOUTH LATITUDE 40.375511

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 631677.958066

* EAST LONGITUDE 652212.006887

* SOUTH LATITUDE 4470979.677105

* NORTH LATITUDE 4492166.027815

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

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

INDIVIDUAL'S NAME Ginger C. Korinek

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE point of contact

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FUNCTION PERFORMED download

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

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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

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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** 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_BLACKFORD_CO_IN

* **OBJECT TYPE** composite

* **OBJECT COUNT** 10

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BED_PSM_BLACKFORD_CO_IN
*FEATURE TYPE Simple
*GEOMETRY TYPE Polyline
*HAS TOPOLOGY FALSE
*FEATURE COUNT 10
*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 2013-07-01 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.

PROCESS CONTACT

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water
INDIVIDUAL'S NAME Ginger C. Korinek
CONTACT'S POSITION Resource Assessment Section
CONTACT'S ROLE processor

CONTACT INFORMATION ►

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ONLINE RESOURCE

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

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2013-08-01 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 ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2013-08-01 00:00:00

RATIONALE A polyline coverage was created using the heads-up method and attributed by Ginger C Korinek. Attribute definitions are described below.

DESCRIPTION Lines of equal potentiometric surface elevation were generated based on static elevation from selected data. Lines were generated and reviewed prior to publication.

PROCESS CONTACT

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

INDIVIDUAL'S NAME Ginger C. Korinek

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE principal investigator

CONTACT INFORMATION ►

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ONLINE RESOURCE

LOCATION www.in.gov/dnr/water/7256.htm

FUNCTION PERFORMED download

[Hide Contact information ▲](#)

[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 ▲](#)

Geoprocessing history ►

PROCESS

DATE 2013-10-22 10:30:40

TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Analysis Tools.tbx\Clip

COMMAND ISSUED

Clip Blackford_BED_PSM_Review Blackford_Boundary J:\!

Potentiometric\Blackford\2_Shapefiles\Shapefiles_Misc_Analytical\PSM\Bedrock\Drafts\Blackford_BED_Clip_County_wo_nodata.shp #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2013-10-22 10:34:12

TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Analysis Tools.tbx\Erase

COMMAND ISSUED

Erase Blackford_BED_Clip_County_wo_nodata "No Data Erase Lines" J:\!

Potentiometric\Blackford\2_Shapefiles\Shapefiles_Misc_Analytical\PSM\Bedrock\BED_PSM_BLACKFORD_CO_IN.shp #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2013-11-06 09:52:18

TOOL LOCATION c:\program files\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField
COMMAND ISSUED
CalculateField BED_PSM_BLACKFORD_CO_IN StaticElev [Id] VB #
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water
INDIVIDUAL'S NAME Ginger C. Korinek
CONTACT'S POSITION Resource Assessment Section
CONTACT'S ROLE originator

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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

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[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

*NAME Shapefile

TRANSFER OPTIONS

UNITS OF DISTRIBUTION Shapefile

*TRANSFER SIZE 0.057

ONLINE SOURCE

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

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT BED_PSM_BLACKFORD_CO_IN ►

*TYPE Feature Class

*ROW COUNT 10

DEFINITION

Potentiometric Line of Equal Elevation

DEFINITION SOURCE

Ginger C. Korinek

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 StaticElev ▶

*ALIAS StaticElev

*DATA TYPE SmallInteger

*WIDTH 4

*PRECISION 4

*SCALE 0

[Hide Field StaticElev ▲](#)

[Hide Details for object BED_PSM_BLACKFORD_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 2013-11-13

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

CREATED IN ARCGIS FOR THE ITEM 2013-11-13 15:39:26

LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-11-13 15:44:28

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2013-11-13 15:44:28

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2013-11-13 15:39:26

FROM J:\!Potentiometric\Blackford\2_Shapefiles\Shapefiles_FINAL_Map\BED_PSM_BLACKFORD_CO_IN

TO \\iotfilp19pw\dnr\dow\TS\Water_Resources_and_Rights!

Potentiometric\Blackford\1_Web_Products\31_Blackford_Co_PSM_Shapefiles\BED_PSM_BLACKFORD_CO_IN

[Hide Metadata Details ▲](#)

Metadata Contacts ▶

METADATA CONTACT

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

INDIVIDUAL'S NAME Ginger C. Korinek

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE originator

CONTACT INFORMATION ▶

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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 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) ▼