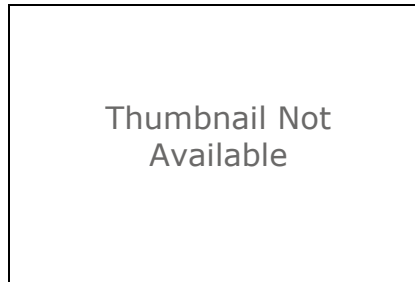


Potentiometric Surface Map of the Unconsolidated Aquifers of Bartholomew County, Indiana

Shapefile



Tags

water table, Indiana Department of Natural Resources (IDNR), groundwater, water wells, Unconsolidated, static water level, Bartholomew County, Indiana, USA, potentiometric surface, geoscientificInformation, Division of Water (DOW)

Summary

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

Description

This file is a digital geospatial polyline coverage of the unconsolidated potentiometric surface elevations mapped for Bartholomew 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	-86.058982	East	-85.744547
North	39.351022	South	39.034538

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:500,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE geoscientificInformation

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS Bartholomew County, Indiana, USA

THEME KEYWORDS Indiana Department of Natural Resources (IDNR)

THEME KEYWORDS geoscientificInformation

THESAURUS ►

TITLE ISO 19115 Topic Categories

Hide Thesaurus ▲

THEME KEYWORDS Division of Water (DOW)

THEME KEYWORDS water table

THEME KEYWORDS water wells

THEME KEYWORDS static water level

THEME KEYWORDS Unconsolidated

THEME KEYWORDS potentiometric surface

THEME KEYWORDS groundwater

Hide Topics and Keywords ▲

Citation ►

TITLE Potentiometric Surface Map of the Unconsolidated Aquifers of Bartholomew County, Indiana

PUBLICATION DATE 2013-12-01

EDITION 1

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

SERIES

NAME Unconsolidated Potentiometric Surface Map

ISSUE PSM 48-A

OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: AZALIA, COLUMBUS, EDINBURGH, ELIZABETHTOWN, GRAMMER, HARTSVILLE, HOPE, JONESVILLE, NEW BELLSVILLE, NINEVEH, and WAYMANSVILLE.

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

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

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

STATUS completed

SPATIAL REPRESENTATION TYPE vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; 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 unc_psm_bartholomew_co_in_revised

* SIZE 0.800

* LOCATION file:///\\dnrfilp02pw\dnrgis_Working\!potentiometric_finished\48_Bartholomew\2019 working\2019 zip\unc_psm_bartholomew_co_in_revised.shp

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

publication date

TEMPORAL EXTENT

DATE AND TIME 2014-12-01

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -86.058982

EAST LONGITUDE -85.744547

SOUTH LATITUDE 39.034538

NORTH LATITUDE 39.351022

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -86.058982
 * EAST LONGITUDE -85.744547
 * NORTH LATITUDE 39.351022
 * SOUTH LATITUDE 39.034538
 * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 581442.180247
 * EAST LONGITUDE 608178.921513
 * SOUTH LATITUDE 4321352.464680
 * NORTH LATITUDE 4356157.015907
 * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

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

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

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 2014, 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.

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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
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["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_bartholomew_co_in_revised
 * OBJECT TYPE composite
 * OBJECT COUNT 103

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME unc_psm_bartholomew_co_in_revised
 * FEATURE TYPE Simple
 * GEOMETRY TYPE Polyline
 * HAS TOPOLOGY FALSE
 * FEATURE COUNT 103
 * 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 ►
 DIMENSION horizontal

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

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

INDIVIDUAL'S NAME Ginger C. Korinek
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 CONTACT'S POSITION Resource Assessment Section
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[Hide Process step ▲](#)

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.

PROCESS CONTACT

INDIVIDUAL'S NAME Ginger C. Korinek

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

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE processor

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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, ground-water availability, bedrock topography, and surface topography.

PROCESS CONTACT

INDIVIDUAL'S NAME Ginger C. Korinek

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SOURCE DATA ►

RELATIONSHIP TO THE PROCESS STEP used

SOURCE CITATION ►

ALTERNATE TITLES IDNR-DOW water well records for domestic and other supply wells submitted by water well drillers from 1959-2012

Hide Source citation ▲

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

RESOLUTION OF THE SOURCE DATA

SCALE DENOMINATOR 48000

Hide Source data ▲

Hide Lineage ▲

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

INDIVIDUAL'S NAME Ginger C. Korinek

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CONTACT'S ROLE distributor

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Hide Contact information ▲

AVAILABLE FORMAT

NAME VPF

FILE DECOMPRESSION TECHNIQUE no compression applied

ORDERING PROCESS

DATE OF AVAILABILITY 2013-09-01

Hide Distributor ▲

DISTRIBUTION FORMAT

* NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.800

ONLINE SOURCE

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

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT [unc_psm_bartholomew_co_in_revised](#) ►

* TYPE Feature Class

* ROW COUNT 103

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 5
 * PRECISION 5
 * SCALE 0

FIELD DESCRIPTION

Potentiometric surface contours are developed and displayed here based on the static water levels from the unconsolidated aquifer systems with 10-foot contours and 50-foot index contours.

DESCRIPTION SOURCE

Author

Hide Field Static_E ▲

Hide Details for object unc_psm_bartholomew_co_in_revised ▲

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 2019-07-11

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 2019-07-11 08:46:41
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2019-07-11 85:60:90

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2019-07-11 08:55:10

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2019-07-11 08:46:41

FROM S:\48_Bartholomew\2019 working\unc_psm_bartholomew_co_in_revised

TO \\dnr\filp02pw\dnrgis_Working\!potentiometric_finished\48_Bartholomew\2019 working\2019 zip\unc_psm_bartholomew_co_in_revised

[Hide Metadata Details ▲](#)**Metadata Contacts ►**

METADATA CONTACT

INDIVIDUAL'S NAME Ginger C. Korinek

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CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE point of contact

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LEGAL CONSTRAINTS

ACCESS CONSTRAINTS other restrictions

OTHER 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) ▼**