

Appendix L

Environmental Document Data Citations

Environmental Document Data Citations

CONFINED FEEDING OPERATIONS --

Confined Feeding Operation Facilities, 2015 (Source scale is unknown)

Shows swine, chicken, turkey, beef or dairy agribusinesses that have large enough numbers of animals that IDEM regulates for environmental concerns, as defined by IC 13-18-10 of the Indiana Code.

FGDC metadata: [CONFINED FEEDING OPERATIONS IDEM IN](#)

Originator:

Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: CONFINED_FEEDING_OPERATIONS_IDEM_IN: Confined Feeding Operation Facilities in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an Esri geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

WASTE TREATMENT STORAGE DISPOSAL --

Treatment, Storage, and Disposal Sites, 2010 (Source scale is unknown)

Shows treatment, storage, and disposal (TSD) site locations. Treatment Storage and Disposal Facilities are facilities that may treat, store, and (or) dispose hazardous waste. Such facilities are usually also generators of hazardous waste. The layer generally shows the locations of access points to managed sites, along with a unique identifier for each location.

FGDC metadata: [WASTE TREATMENT STORAGE DISPOSAL IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20100416

Title: WASTE_TREATMENT_STORAGE DISPOSAL IDEM_IN: Treatment, Storage, and Disposal Sites in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an ESRI geodatabase format, and was named "OLQ IndianaMap Export-04162010.gdb."

Online_Linkage: <<http://igs.indiana.edu/arcims/statewide/download.html>>

SEPTAGE WASTE SITES --

Septage Waste Sites, 2013 (Source scale is unknown)

Shows septage waste site locations. Septage Sites are permitted septage (septic tank waste) sites where the waste is land applied, as defined by 327 IAC 7, 327 IAC 7-6, and 327 IAC 7-7 of the Indiana Administrative Code. The layer generally shows the locations of access points to managed sites, along with a unique identifier for each location. In a few instances other features were used as a reference for the location of the managed sites.

FGDC metadata: [WASTE SEPTAGE SITES IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20130625

Title: WASTE_SEPTAGE_SITES_IDEM_IN: Septage Waste Sites in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an ESRI geodatabase format, and was named

"IndianaMapUpdate_June2013.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

TIRE WASTE SITES --

Waste Tire Sites, 2015 (Source scale is unknown)

Shows waste tire site locations. Tire Sites contain tires either for processing, for storage, or transport, as well as some illegal tire dumps, as defined by IC 13-11-2-251, IC 13-11-2-252, and IC 13-11-250.5 of the Indiana Code. The layer generally shows the locations of access points to managed sites, along with a unique identifier for each location.

FGDC metadata: [WASTE TIRE SITES IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: WASTE_TIRE_SITES_IDEM_IN: Waste Tire Sites in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an Esri geodatabase format, and was named

"IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

CONSTRUCTION DEMOLITION WASTE --

Construction and Demolition Waste Facilities, 2015 (Source scale is unknown)

Shows permitted, state-licensed facilities that accept solid waste in the form of anything that is attached to a house during construction or demolition, as defined by IAC 329 10-2-36 of the

Indiana Administrative Code.

FGDC metadata: [CONSTRUCTION DEMOLITION WASTE IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: WASTE_DISPOSAL_STORAGE_HANDLING_IDEM_IN: Waste Site Locations for Disposal, Storage and Handling of Solid Waste and Hazardous Waste in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher:

Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to IGS personnel by Indiana Department of Environmental Management, Office of Land Quality personnel on February 25, 2015. The data set provided was in an ESRI geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

SOLID WASTE LANDFILLS --

Active Permitted Solid Waste Sites, 2010 (Source scale is unknown)

Shows active permitted solid waste site locations. The layer generally shows the locations of access points to managed sites, along with a unique identifier for each location.

FGDC metadata: [WASTE SOLID ACTIVE PERMITTED IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: WASTE_DISPOSAL_STORAGE_HANDLING_IDEM_IN: Waste Site Locations for Disposal, Storage and Handling of Solid Waste and Hazardous Waste in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher:

Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to IGS personnel by Indiana Department of Environmental Management, Office of Land Quality personnel on February 25, 2015. The data set provided was in an ESRI geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

INDUSTRIAL WASTE SITES --

Industrial Waste Sites, 2015 (Source scale is unknown)

Shows the locations of access points to industrial waste site locations, along with unique identifiers for each location. GPS points locate the entrance to facilities that generate and (or) manage hazardous waste, non-hazardous industrial waste, and solid waste.

FGDC metadata: [WASTE INDUSTRIAL IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: WASTE_INDUSTRIAL_IDEM_IN: Industrial Waste Sites in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to IGS personnel by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an Esri geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

OPEN DUMP WASTE SITES --

Open Dump Sites, 2015 (Source scale is unknown)

Open Dumps are sites that are not regulated and are illegal dump sites of solid waste, as defined by IAC 10-2-28 329 and IAC 10-2-128 of the Indiana Administrative Code.

FGDC metadata: [OPEN DUMPS IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: WASTE_DISPOSAL_STORAGE_HANDLING_IDEM_IN: Waste Site Locations for Disposal, Storage and Handling of Solid Waste and Hazardous Waste in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher:

Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to IGS personnel by Indiana Department of Environmental Management, Office of Land Quality personnel on February 25, 2015. The data set provided was in an ESRI geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

OLD LANDFILLS --

OLD LANDFILLS, 2010 (Source scale is unknown)

Shows landfills that are finished with their post-closure care and older landfills that were never permitted. Post-closure care requires submittal of documentation to IDEM, maintenance of the cover, and methane and ground water monitoring, where applicable. Landfills that are finished with post-closure care no longer submit information, IDEM inspects them less frequently, and they disappear off the Permit Manager's list. These sites closed under a number of different rules and regulations. Some of them were never permitted. Many contain solid waste, but some contain industrial waste. It is a varied dataset with only one thing in common: they are not submitting information to IDEM, they are not regularly inspected, and they are not considered part of the IDEM permit universe.

FGDC metadata: [WASTE_OLD_LANDFILLS_IDEM_IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: WASTE_DISPOSAL_STORAGE_HANDLING_IDEM_IN: Waste Site Locations for Disposal, Storage and Handling of Solid Waste and Hazardous Waste in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher:

Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to IGS personnel by Indiana Department of Environmental Management, Office of Land Quality personnel on February 25, 2015. The data set provided was in an ESRI geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

COMPOSTING FACILITIES --

Composting Facilities, 2010 (Source scale is unknown)

Shows leaf, limb, or grass collection sites where a compost product is created, as defined by IC 13-20-10 of the Indiana Code.

FGDC metadata: [COMPOSTING FACILITIES_IDEM_IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20100416

Title: COMPOSTING_FACILITIES_IDEM_IN: Composting Facilities in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an ESRI geodatabase format, and was named "OLQ IndianaMap Export-04162010.gdb."

Online_Linkage: <<http://igs.indiana.edu/arcims/statewide/download.html>>

NPDES FACILITIES --

Facilities - National Pollutant Discharge Elimination System, 2013 (Source scale is unknown)

Shows state-permitted wastewater facilities and provides associated information such as the name of the facility, contacts, and a variety of mailing addresses.

Extracted from the national EPA Permit Compliance System (PCS) database, this layer includes all available records listed in Indiana associated with active surface-water discharges that have locational information as UTM values.

IGS personnel modified the original shapefile obtained from IDEM by eliminating 3,234 records that did not have associated UTM values.

FGDC metadata: [NPDES FACILITY_IDEM_IN](#)

Originator: Indiana Department of Environmental Management, Office of Water Quality

Publication_Date: 20131008

Title: NPDES_FACILITY_IDEM_IN: Facilities in the National Pollutant Discharge Elimination System (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Water Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Water Quality personnel on December 12, 2002. The data set provided was in an ESRI shapefile format, and was named "A-NPDES-FACILITY." It was subsequently updated on October 8, 2013 by IDEM OLQ personnel, and was provided as an ESRI geodatabase point feature class named "ICIS_FACILITIES."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

NPDES PIPE LOCATIONS --

Pipe Locations - National Pollutant Discharge Elimination System, 2013 (Source scale is unknown)

Shows National Pollutant Discharge Elimination System (NPDES) Program pipe locations.

Extracted from the national EPA Permit Compliance System (PCS) database, this layer focuses on active state-regulated wastewater facility permit discharge points discharging into surface water bodies and for which locational information exists as UTM values.

IGS personnel modified the original shapefile obtained from IDEM by eliminating 2,782 records that did not have associated UTM values.

FGDC metadata: [NPDES PIPE IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Water Quality

Publication_Date: 20131008

Title: NPDES_PIPE_IDEM_IN: Pipe Locations in the National Pollutant Discharge Elimination System in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Water Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Water Quality personnel on December 12, 2002. The data set provided was in an ESRI shapefile format, and was named "A-NPDES-PIPE." It was subsequently updated on October 8, 2013 by IDEM OLQ personnel, and was provided as an ESRI geodatabase point feature class named "ICIS_PIPES."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

CORRECTIVE ACTION SITES --

Corrective Action Sites, 2010 (Source scale is unknown)

Shows facilities that are subject to RCRA Corrective Action if they meet any of the following conditions: operating under a hazardous waste permits (A or B) or an interim status facility and lawsuit against any handler.

FGDC metadata: [CORRECTIVE ACTION SITES IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20100416

Title: CORRECTIVE_ACTION_SITES_IDEM_IN: Corrective Action Sites in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an ESRI geodatabase format, and was named "OLQ IndianaMap Export-04162010.gdb."

Online_Linkage: <<http://igs.indiana.edu/arcims/statewide/download.html>>

SUPERFUND SITES --

Superfund Program Facilities, 2015 (Source scale is unknown)

Shows GPS-located Superfund Program facilities. The layer generally shows the locations of access points to managed sites. Attributes include facility identifications, federal identification numbers, and addresses.

FGDC metadata: [SUPERFUND IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: SUPERFUND_IDEM_IN: Superfund Program Facilities in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

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Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

BROWNFIELDS --

Brownfields, 2015 (Source scale is unknown)

A brownfield site is a parcel of real estate that is abandoned or inactive, or may not be operated at its appropriate use, and on which expansion, redevelopment, or reuse is complicated because of the presence or potential presence of a hazardous substance, a contaminant, petroleum, or a petroleum product that poses a risk to human health and the environment.

FGDC metadata: [BROWNFIELDS IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: BROWNFIELDS_IDEM_IN: Brownfield Locations in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an ESRI geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

VRP SITES --

Voluntary Remediation Program Sites, 2010 (Source scale is unknown)

Shows Voluntary Remediation Program site locations. The layer generally shows the location of access points to managed sites. Attributes include facility names and federal identification numbers.

FGDC metadata: [VRP_SITES_IDEM_IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: VRP_SITES_IDEM_IN: Voluntary Remediation Program Sites in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an ESRI geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

CLEANUP SITES --

State Cleanup Sites, 2015 (Source scale is unknown)

Shows State Cleanup sites that are on the Commissioner's Bulletin or referred remedial response locations or other IDEM programs that require mitigation of risk to human health and the environment through investigation, remediation or institutional controls

FGDC metadata: [CLEANUP_SITES_IDEM_IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: CLEANUP_SITES_IDEM_IN: Cleanup Sites in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an Esri geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

INSTITUTIONAL CONTROL SITES (IDEM) --

Institutional Control Sites, 2015

Shows Institutional Control (IC) site locations in Indiana.

When any amount of contamination above a residential closure level is left on a property, a legal measure called an Institutional Control (IC) may be needed.

An IC protects human health and the environment by restricting property activity, use, or access.

Institutional Control (IC) polygons were created from recorded Environmental Restrictive Covenants (ERCs) and other Institutional Controls (ICs) mandated by IDEM.

Attributes include facility names and addresses, the type(s) of use-restrictions and IC's, and a URL that links directly to a digital copy of the IC document.

FGDC metadata: [INSTITUTIONAL CONTROLS IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: INSTITUTIONAL_CONTROLS_IDEM_IN.SHP: Institutional Control Sites in Indiana (Indiana Department of Environmental Management, Polygon Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

The most recent update for this data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel on February 25, 2015. The data set provided was in an ESRI shapefile format, and was named "OLQ_INSTITUTIONAL_CONTROLS_IN.SHP"

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

UST LOCATIONS --

Underground Storage Tanks, 2015 (Source scale is unknown)

Shows regulated underground storage tank locations. Regulated underground storage tanks are those that have 10 percent or more of the tank and piping buried beneath the ground and contain a regulated substance. This data set generally contains the location of access points to managed sites, along with a unique identifier for each location.

FGDC metadata: [UST IDEM IN](#)

Originator:

Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: UST_IDEM_IN: Underground Storage Tanks in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an Esri geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

LUST LOCATIONS --

Leaking Underground Storage Tanks, 2015 (Source scale is unknown)

Shows known sites with leaking underground storage tanks. Regulated underground storage tanks (USTs) contain regulated substances including petroleum and hazardous substances such as those typically found at gasoline stations, fleet fueling facilities, and industrial sites. If a release from a UST system is suspected or confirmed, the owner and operator must report it to the Indiana Department of Environmental Management. These sites are called Leaking USTs. Actions must be taken as described in the UST rules - 329 IAC 9-4 and 5.

FGDC metadata: [LUST IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20150225

Title: UST_IDEM_IN: Underground Storage Tanks in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set provided was in an Esri geodatabase format, and was named "IndianaMapUpdate_February2015.gdb."

Online_Linkage: <<http://maps.indiana.edu/LayerGallery.html>>

MANUFACTURED GAS PLANTS --

Manufactured Gas Plants, 2010 (Source scale is unknown)

MGPs produced gas for lighting, heating, and cooking from the 1850's to the 1940's. In addition to producing the desired product, gas, numerous toxic by-products (such as tars and purifier wastes) were often stored in subsurface structures or disposed of in the dump areas at the site. Significant amounts of contamination usually occurred at these sites due to the nature of gas production and poor housekeeping. MGPs productions decreased and were phased out in the 1940's due to the increase network of natural gas pipelines across the country. These plants were decommissioned by razing the building but leaving subsurface structures and wastes in place. There are at least 74 known former MGPs in Indiana.

FGDC metadata: [MANUFACTURED GAS PLANTS IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Land Quality

Publication_Date: 20100416

Title: MANUFACTURED_GAS_PLANTS_IDEM_IN: Manufactured Gas Plants in Indiana (Indiana Department of Environmental Management, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Land Quality

Other_Citation_Details:

This data set was provided to personnel of the Indiana Geological Survey (IGS) by Indiana Department of Environmental Management, Office of Land Quality personnel. The data set

provided was in an ESRI geodatabase format, and was named "OLQ IndianaMap Export-041620109.gdb."

Online_Linkage: <<http://igs.indiana.edu/arcims/statewide/download.html>>

HYDROGRAPHY LINES --

Streams, Rivers, Canals, and Ditches, 2008 (1:24,000)

Shows streams, rivers, canals, and ditches.

This layer is derived from the National Hydrography Dataset (NHD). The NHD interconnects and uniquely identifies the stream segments or reaches that comprise the nation's surface-water drainage system. It is based initially on the content of the U.S. Geological Survey 1:100,000-scale Digital Line Graph (DLG) hydrography data, integrated with reach-related information from the U.S. Environmental Protection Agency Reach File Version 3.0 (RF3). For portions of the southwestern 26 counties, some features were added from 1:24,000 quadrangles by Bernardin, Lochmueller and Associates, Inc.

FGDC metadata: [HYDROGRAPHY LINE NHD IN](#)

Originator:

U.S. Geological Survey and the U.S. Environmental Protection Agency (Data author)

Originator: Indiana Geological Survey (Data processor)

Originator: Chris Dintaman (Data processor)

Originator: Denver Harper (Data processor)

Publication_Date: 20081218

Title: HYDROGRAPHY_HIGHRES_FLOWLINE_NHD_USGS: Streams, Rivers, Canals, Ditches, Artificial Paths, Coastlines, Connectors, and Pipelines in Watersheds of Indiana (U. S. Geological Survey, 1:24,000, Line Shapefile)

Edition: High-Resolution National Hydrography Dataset, 2008

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: United States Geological Survey

Other_Citation_Details:

HYDROGRAPHY_HIGHRES_FLOWLINE_NHD_USGS.SHP is derived from the feature class named "NHDFlowline" of the High-Resolution National Hydrography Dataset (2008), created by the United States Geological Survey (USGS) and the United States Environmental Protection Agency (EPA). Personnel of the USGS provided the Indiana Geological Survey an ESRI file geodatabase named NHD11015_IN.MDB. If users desire complete geodatabases, with all event tables and other modeling resources available in the full data suite, it can be downloaded by subregion (HUC04 level data) by either of the two Web links:

<<ftp://nhdftp.usgs.gov/SubRegions/>> <<http://nhdgeo.usgs.gov/viewer.htm>>

HYDROGRAPHY POLYGONS --

Canals, Lakes, Streams, and Swamps, 2000 (1:24,000)

Shows lakes, ponds, rivers, large streams, and swamps or marshes in Indiana. This layer is derived from the National Hydrography Dataset (NHD). The NHD interconnects and uniquely identifies the stream segments or reaches that comprise the nation's surface-water drainage system. It is based initially on the content of the U.S. Geological Survey 1:100,000-scale Digital Line Graph (DLG) hydrography data, integrated with reach-related information from the U.S.

Environmental Protection Agency Reach File Version 3.0 (RF3).

FGDC metadata: [HYDROGRAPHY POLY NHD IN](#)

Originator:

U.S. Geological Survey and the U.S. Environmental Protection Agency (Data author)

Originator: Indiana Geological Survey (Data processor)

Originator: Chris Dintaman (Data processor)

Originator: Denver Harper (Data processor)

Publication_Date: 20081218

Title: HYDROGRAPHY_HIGHRES_WATERBODYDISCRETE_NHD_USGS: Lakes, Ponds, Reservoirs, Swamps, and Marshes in Watersheds of Indiana (U. S. Geological Survey, 1:24,000, Polygon Shapefile)

Edition: High-Resolution National Hydrography Dataset, 2008

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: United States Geological Survey

Other_Citation_Details:

HYDROGRAPHY_HIGHRES_WATERBODYDISCRETE_NHD_USGS.SHP is derived from the feature class named "NHDWaterbody" of the High-Resolution National Hydrography Dataset (2008), created by the United States Geological Survey (USGS) and the United States Environmental Protection Agency (EPA). Personnel of the USGS provided the Indiana Geological Survey an ESRI file geodatabase named NHD11015_IN.MDB. If users desire complete geodatabases, with all event tables and other modeling resources available in the full data suite, it can be downloaded by subregion (HUC04 level data) by either of the two Web links: [<ftp://nhdftp.usgs.gov/SubRegions/>](ftp://nhdftp.usgs.gov/SubRegions/) [<http://nhdgeo.usgs.gov/viewer.htm>](http://nhdgeo.usgs.gov/viewer.htm)

WETLAND POINTS --

National Wetland Inventory, as Points, 1992 (1:3,000,000)

Shows features of wetlands, lakes, ponds, streams and other water resources, as defined by the U.S. Fish and Wildlife Service and compiled from the National Wetland Inventory. Point features are used to represent areas which may be too small to be represented by a polygon. Aerial photointerpretation techniques were used, with the objective of providing better geospatial information on wetlands than found on the U.S. Geological Survey topographic maps. Wetland boundaries are generalized and are not exact, nor are they comparable to boundaries derived from ground surveys.

This layer is intended for use with its companion layers of Wetland lines and Wetland polygons.

FGDC metadata: [WETLAND NWI POINT IN](#)

Originator: (creation): US Fish and Wildlife Service

Originator: (compilation): Bernardin, Lochmueller and Associates

Publication_Date: 20030128

Title: WETLANDS_NWI_POINT_IN: National Wetland Inventory Points in Indiana (US Fish and Wildlife Service, 1:3M, Point Shapefile)

Edition: National Wetland Inventory

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Evansville, IN

Publisher: Bernardin, Lochmueller and Associates

Other_Citation_Details:

This dataset is a compilation of the National Wetland Inventory created by the US Fish and Wildlife Service <<http://www.nwi.fws.gov/>> Dataset is one layer in the Indiana Statewide GIS Database funded by Indiana Department of Transportation. This metadata applies to one shapefile for Indiana.

Online_Linkage: <<http://igs.indiana.edu/arcims/statewide/download.html>>

WETLAND POLYGONS --

National Wetland Inventory, as Polygons, 1992 (Source scale is unknown)

Shows features of wetlands, lakes, ponds, streams and other water resources, as defined by the U.S. Fish & Wildlife Service and compiled from the National Wetland Inventory.

Aerial photointerpretation techniques were used, with the objective of providing better geospatial information on wetlands than found on the U.S. Geological Survey topographic maps. Wetland boundaries are generalized and are not exact, nor are they comparable to boundaries derived from ground surveys.

This layer is intended for use with its companion layers of Wetland lines and Wetland points.

FGDC metadata: [WETLAND NWI POLY IN](#)

Originator: U.S. Department of the Interior, Fish and Wildlife Service

Publication_Date: 20141020

Title: WETLANDS_NWI_USFWS_IN: Wetlands and Deepwater Habitats of the National Wetlands Inventory (NWI) for Indiana (U.S. Fish & Wildlife Service, Polygon Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Washington, D.C.

Publisher: U.S. Fish & Wildlife Service

Other_Citation_Details:

This layer was downloaded on October 20, 2014 from the following Web page of the U.S. Fish & Wildlife Service (USFWS): [<<http://www.fws.gov/wetlands/Data/State-Downloads.html>>].

For the latest news from the USFWS please access the home page using the following link: [<<http://www.fws.gov/wetlands/index.html>>].

To access the online metadata documents for the data use the following link: [<<http://www.fws.gov/wetlands/Data/metadata.html>>].

The following is excerpted from the "Wetlands Product Summary" Web page of the USFWS:

"As of May of 2014, the wetland geospatial data layer provides on-line map information for all of the conterminous U.S., Hawaii, Puerto Rico, the Virgin Islands, Guam, the major Northern Mariana Islands and 35% of Alaska. This has been accomplished by working with numerous public and private cooperators to produce maps, digital data, and publications. Currently, efforts are underway to complete and maintain a seamless digital wetlands data set for the Nation. This effort constitutes the Wetlands Data Layer of the National Spatial Data Infrastructure."

Online_Linkage: <<http://maps.indiana.edu/layerGallery.html>>

WETLAND LINES --

National Wetland Inventory, as Lines, 1992 (1:3,000,000)

Shows features of wetlands, lakes, ponds, streams and other water resources, as defined by the U.S. Fish and Wildlife Service and compiled from the National Wetland Inventory.

Aerial photointerpretation techniques were used, with the objective of providing better geospatial information on wetlands than found on the U.S. Geological Survey topographic maps. Wetland

boundaries are generalized and are not exact, nor are they comparable to boundaries derived from ground surveys.

This layer is intended for use with its companion layers of Wetland points and Wetland polygons.

FGDC metadata: [WETLAND_NWI_LINE_IN](#)

Originator: (creation): US Fish and Wildlife Service

Originator: (compilation): Bernardin, Lochmueller and Associates

Publication_Date: 20030128

Title: WETLANDS_NWI_LINE_IN: National Wetland Inventory Lines in Indiana (US Fish and Wildlife Service, 1:3M, Line Shapefile)

Edition: National Wetland Inventory

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Evansville, IN

Publisher: Bernardin, Lochmueller and Associates

Other_Citation_Details:

This dataset is a compilation of the National Wetland Inventory created by the US Fish and Wildlife Service <<http://www.nwi.fws.gov/>> Dataset is one layer in the Indiana Statewide GIS Database funded by Indiana Department of Transportation. This metadata applies to one shapefile for Indiana.

Online_Linkage: <<http://igs.indiana.edu/arcims/statewide/download.html>>

Flood Control Project – Line of Protection

Department of the Army, Detroit District, corps of Engineers

Environmental Analysis Branch

Data was received per consultation with Department of the Army, Detroit District, corps of Engineers Environmental Analysis Branch 3/10/09

FLOODPLAINS - FIRM --

Floodplains - Flood Rate Insurance Maps (FIRM), 2017 (1:12,000)

Shows floodplains created from FEMA Flood Rate Insurance Maps (FIRM). The FIRM is the basis for floodplain management, mitigation, and insurance activities for the National Flood Insurance Program (NFIP). The Digital Flood Insurance Rate Map (DFIRM) Database is derived from Flood Insurance Studies (FIS), previously published Flood Insurance Rate Maps (FIRM), flood hazard analyses performed in support of the FIS's and FIRM's, and new mapping data, where available.

This database is an interim version of the DFIRM Database and does not fully meet all DFIRM specifications. These floodplain data may be used with an associated base-flood-elevation line shapefile and cross-sections line shapefile.

FGDC metadata: [FLOODPLAINS_FIRM_IDNR_IN](#)

Originator: Indiana Department of Natural Resources

Publication_Date: 20170320

Title: FLOODPLAINS_FIRM_IDNR_IN: FIRM Floodplains and Flood Hazard Zones in Indiana (Indiana Department of Natural Resources, 1:12,000, Polygon Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Natural Resources

Other_Citation_Details:

Floodplains are one layer in the interim digital flood rate insurance maps (DFIRM) created by the Indiana Department of Natural Resources (IDNR) and available for download from the following URL:

<http://www.in.gov/dnr/water/surface_water/hydro_hydraulic/flood_maps/index.html>

Note: At the request of IDNR personnel, this metadata and associated data layer were renamed to "Floodplains_FIRM_IDNR_IN" on June 15, 2012 and the naming convention has been carried forward for subsequent updates on March 26, 2013, February 10, 2014, May 19, 2015, and June 8, 2016, and April 19, 2017.

Online_Linkage: <<http://maps.indiana.edu/layerGallery.html>>

IMPAIRED LAKES (IDEM) --

Impaired Lakes, 2006 (Source scale is unknown)

Shows waterbodies that do not meet water-quality standards under Section 303(d) of the Clean Water Act.

Attributes include causes for listing under Section 303(d) (such as algae, taste and odor, E. coli, and sulfates), as well as fish consumption advisories for mercury and PCBs.

Obtained from the Indiana Department of Environmental Management.

FGDC metadata: [IMPAIRED LAKES IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Water (Data creator)

Originator: Bernardin, Lochmueller & Associates (Data processor)

Publication_Date: 20060621

Title: IMPAIRED_LAKES_IDEM_IN: Impaired Lakes in Indiana on the 303(d) List of 2006 (Indiana Department of Environmental Management, Polygon Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Water Quality

Other_Citation_Details:

This data set was provided to personnel of Bernardin, Lochmueller & Associates (BLA) by Indiana Department of Environmental Management, Office of Water personnel.

The data set provided was in an ESRI shapefile format, and was named "in_303d2006_utm_lakes."

Online_Linkage: <<http://igs.indiana.edu/arcims/statewide/download.html>>

IMPAIRED STREAMS (IDEM) --

Impaired Streams, 2006 (Source scale is unknown)

Shows streams and rivers that do not meet water-quality standards under Section 303(d) of the Clean Water Act.

Attributes include causes for listing under Section 303(d) (such as algae, metals, pesticides, E. coli, dioxins, et al.), as well as fish consumption advisories for mercury and PCBs.

Obtained from the Indiana Department of Environmental Management.

FGDC metadata: [IMPAIRED STREAMS IDEM IN](#)

Originator: Indiana Department of Environmental Management, Office of Water (Data creator)

Originator: Bernardin, Lochmueller & Associates (Data processor)

Publication_Date: 20060621

Title: IMPAIRED_STREAMS_IDEM_IN: Impaired Streams in Indiana on the 303(d) List of 2006 (Indiana Department of Environmental Management, Line Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Environmental Management, Office of Water Quality

Other_Citation_Details:

This data set was provided to personnel of Bernardin, Lochmueller & Associates (BLA) by Indiana Department of Environmental Management, Office of Water personnel.

The data set provided was in an ESRI shapefile format, and was named "in_303d2006_utm_streams."

Online_Linkage: <<http://igs.indiana.edu/arcims/statewide/download.html>>

Wellhead Protection Areas/High Capacity Wells

The Hydrogeology of Allen County, Indiana: A Geologic and Ground-Water Atlas. Anthony H. Fleming. Indiana Geological Survey, Special Report 57. Bloomington Indiana, 1994.

Cemeteries

Originator: Allen County iMap

Last_Updated: 2014

Title: GISData.SDE.Cemetery

Publication_Place: Fort Wayne, IN

Publisher: Allen County iMap

MANAGED LANDS --

Managed Lands, 2018 (1:24,000)

Shows natural and recreation areas which are owned or managed by the Indiana Department of Natural Resources. In addition, some lands are included that are owned by federal agencies, local agencies, non-profit organizations, and conservation easements. For additional information regarding these lands, persons should contact the IDNR Indiana Natural Heritage Data Center (317-232-4052).

Attributes include property names, owners, managing entities, acreages, access, and other information.

FGDC metadata: [MANAGED LANDS IDNR IN](#)

Originator: Indiana Natural Heritage Data Center, Indiana Department of Natural Resources (Data creator)

Publication_Date: 20180212

Title: MANAGED_LANDS_IDNR_IN: Managed Lands in Indiana (Indiana Department of Natural Resources, 1:24,000, Polygon Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Natural Heritage Data Center, Indiana Department of Natural Resources

Other_Citation_Details:

This data set was provided to personnel of Indiana Geological and Water Survey (IGS) on December 28, 2007 by the Indiana Natural Heritage Data Center, Indiana Department of Natural Resources personnel. An updated data set was received on April 16, 2009, April 21, 2010, September 20, 2010, March 15, 2012, March 26, 2013, November 8, 2013, May 19, 2014,

March 4, 2015, November 10, 2015, June 16, 2016, April 19, 2017, and February 12, 2018. The data was provided in an Esri shapefile format, and was named "MANAGEDLANDS_DNR_INHD_IN_180212.SHP". This file was approved for public distribution by the Natural Heritage Data Center.

Online_Linkage: <http://maps.indiana.edu/layerGallery.html>

Ft Wayne/Allen County Parks

Originator: Allen County iMap

Last Updated: 2017

Title: GISData.SDE.Parks

Publication_Place: Fort Wayne, IN

Publisher: Allen County iMap

Railroads

Originator: Allen County iMap, Allen County, Auditor's Office, The Sidwell Company

Last Updated: 2006

Title: GISData.SDE.Railroad_Centerline

Publication_Place: Fort Wayne, IN

Publisher: Allen County iMap

Schools

Originator: Allen County iMap

Last Updated: 2017

Title: GISData.SDE.Schools

Publication_Place: Fort Wayne, IN

Publisher: Allen County iMap

RELIGIOUS FACILITIES --

Religious Facilities, 2007 (1:24,000)

Shows the locations of religious centers and places of worship in Indiana.

Extracted from the Geographic Names Information System (GNIS) of the U.S. Geological Survey. The dataset contains religious facilities named on 1:24,000 quadrangles. Additional facilities were added by Bernardin, Lochmueller and Associates, Inc.

FGDC metadata: [RELIGIOUS CENTERS USGS BLA IN](#)

Originator: United States Geological Survey (USGS) (data creator)

Originator: Bernardin, Lochmueller & Associates (BLA) (data creator and compiler)

Publication_Date: 20070823

Title: RELIGIOUS_CENTERS_USGS_BLA_IN: Religious Centers in Indiana (United States Geological Survey and Bernardin, Lochmueller & Associates, 1:24,000, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Evansville, Indiana

Publisher: Bernardin, Lochmueller & Associates

Other_Citation_Details:

This data set was compiled by personnel of Bernardin, Lochmueller & Associates (BLA) from the United States Geological Survey (USGS) Geographic Names Information System (GNIS), USGS topographic map review, and locating addresses found on various religious listing web

sites. To find out more about the USGS, GNIS visit <http://geonames.usgs.gov/domestic/index.html>. Web sites used to obtain address listings for additional listings include - Dharma Web <http://www.dharmaweb.org/index.php/Indiana>, Jewish Finder http://www.ujc.org/ir_LL_category.html?state=in, and The Church of Jesus Christ Latter-day Saints <http://www.mormon.org/worshipwithus/1,20864,,00.html>.
Online_Linkage: <http://igs.indiana.edu/arcims/statewide/download.html>

RECREATIONAL FACILITIES --

Outdoor Recreational Facilities, 20090226 (1:24,000)

Shows outdoor recreation facilities, including facilities managed by federal, state, and local governments, as well as non-government organizations, private and commercial entities, and schools. It does not include sites that are private and not open to the public.

FGDC metadata: [RECREATIONAL FACILITIES IDNR IN](#)

Originator: Indiana Department of Natural Resources, Division of Outdoor Recreation

Publication_Date: 20090421

Title: RECREATIONAL_FACILITIES_IDNR_IN: Outdoor Recreational Facilities in Indiana (Indiana Department of Natural Resources, 1:24,000, Point Shapefile)

Edition: 1.1

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Indianapolis, Indiana

Publisher: Indiana Department of Natural Resources, Division of Outdoor Recreation

Online_Linkage: <http://igs.indiana.edu/arcims/statewide/download.html>

MUSEUMS --

Museums, 2007 (Source scale is unknown)

Shows the locations of 118 museums. Attributes include street addresses and type of facility (i.e., Art, Children, General, Historical Society, History, House Museum, Military, Music, Science, Sport, and Transportation). Web-site URLs are also provided.

Locations were plotted by personnel of the Indiana Geological Survey using the "Geocoding" tool in ESRI ArcMap 9.2 and street information licensed from Tele Atlas, Dynamap 2000 v. 17.0.

Addresses were obtained from various directories that were retrieved through Google searches on the Web.

FGDC metadata: [MUSEUMS IGS IN](#)

Originator: Indiana Geological Survey (Data source)

Originator: Denver Harper (Data processor)

Originator: Chris Dintaman (Data processor)

Publication_Date: 20070531

Title: MUSEUMS_IGS_IN: Museums in Indiana (Indiana Geological Survey, Point Shapefile)

Edition: 1

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Bloomington, Indiana

Publisher: Indiana Geological Survey

Other_Citation_Details:

The addresses, URLs, and information regarding type of facility were obtained from various Web pages, including the following: Museum and Historic Site Directory

(http://www.collectics.com/museums_indiana.html), MuseumLink's Museum of Museums (<http://www.museumlink.com/indiana.htm>), Step into Places (http://www.stepintoplaces.com/resource%20guide/Quick/Guide_IN.htm), and Historical Museum Guide for Indiana (<http://www.censusfinder.com/indiana-historical-museums.htm#Indiana%20Museums>). Personnel of the Indiana Geological Survey used ESRI ArcMap 9.2 to build an "Address Locator" and used the "Geocoding" tool to perform address-matching, using street information licensed from Tele Atlas, Dynamap 2000, v. 17.0.
Online Linkage: <http://igs.indiana.edu/arcims/statewide/download.html>

PIPELINES (IGS) --

Natural Gas, Crude Oil, and Refined Oil Pipelines, 1988 (1:63,360)
Shows the locations and extents of known natural gas, crude oil, and refined products pipelines. Digitized from data compiled for the creation of the following published map: Indiana Geological Survey Miscellaneous Map 53.

FGDC metadata: [PIPELINES_IGS_IN](#)

Originator: Indiana Geological Survey

Publication_Date: 20020718

Title: PIPELINES_IGS_IN: Natural Gas, Crude Oil, and Refined Oil Pipelines in Indiana (Indiana Geological Survey, 1:63,360, Line Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Bloomington, Indiana

Publisher: Indiana Geological Survey

Other_Citation_Details:

This shapefile was digitized from data shown on 1:63,360-scale (1 inch = 1 mile) county work maps compiled for the creation of Indiana Geological Survey, Miscellaneous Map 53, Map of Indiana Showing Oil, Gas, and Products Pipelines, by S.J. Keller, 1991, Scale 1:500,000. The work maps were scanned using a wide-bed, full-spectrum scanner and the resulting images were georeferenced using ESRI ArcInfo 8.01. The pipelines were then digitized on screen in ESRI ArcView 3.2.

Online Linkage: <http://igs.indiana.edu/arcims/statewide/download.html>

Hospitals_Parcels

Originator: Allen County iMap, Allen County, Auditor's Office, The Sidwell Company

Last Updated: 2018

Title: GISData.SDE.Parcel_Poly

Publication_Place: Fort Wayne, IN

Publisher: Allen County iMap

Airport_parcels

Originator: Allen County iMap, Allen County, Auditor's Office, The Sidwell Company

Last Updated: 2018

Title: GISData.SDE.Parcel_Poly

Publication_Place: Fort Wayne, IN

Publisher: Allen County iMap

Historical_Bridges

Indiana Historic Bridge Inventory, Volume 4: List of Select and Non-Select Bridges. INODOT CC No. 050108. M&H Architecture, Inc. A Mead & Hunt Company. December 2010.

HISTORIC CANAL STRUCTURES --

Historic Canal Structures, 2000 (Source scale is unknown)

Shows the locations of structures associated with three historic canals constructed and used between 1830 and 1870: the Wabash-Erie Canal, the White Water Canal, and the Central Canal. Obtained from Bernardin, Lochmueller, and Associates, Inc.

FGDC metadata: [CANALS HISTORIC STRUCTURES IN](#)

Originator: Bernardin-Lochmueller & Associates

Publication_Date: 20000403

Title: CANALS_HISTORIC_STRUCTURES_IN: Historic Canal Structures in Indiana (Bernardin-Lochmueller & Associates, Point Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Evansville, Indiana

Publisher: Bernardin, Lochmueller and Associates, INC

Other_Citation_Details:

This data set was provided to personnel of Bernardin, Lochmueller and Associates, Inc. (BLA) by the Stan Schmidt. The data was originally provided in hard copy format and then digitized into an ESRI shapefile format, and was named CANALS_HISTORIC_STRUCTURES_SW. As part of the development of the State Wide GIS of Indiana, this file was expanded to include additional areas that were not part of the SW Indiana GIS and renamed Canal_Historic_Structures_IN.

Online_Linkage: <http://igs.indiana.edu/arcims/statewide/download.html>

HISTORIC CANAL ROUTES --

Historic Canal Routes, 2000 (Source scale is unknown)

Shows the locations of three historic canals constructed and used between 1830 and 1870: the Wabash-Erie Canal, the White Water Canal, and the Central Canal.

Obtained from Bernardin, Lochmueller, and Associates, Inc.

FGDC metadata: [CANALS HISTORIC ROUTES IN](#)

Originator: Bernardin-Lochmueller & Associates

Publication_Date: 20000729

Title: CANALS_HISTORIC_ROUTES_IN: Historic Canal Routes in Indiana (Bernardin-Lochmueller & Associates, Line Coverage)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Evansville, Indiana

Publisher: Bernardin, Lochmueller and Associates, INC

Other_Citation_Details:

This data set was provided to personnel of Bernardin, Lochmueller and Associates, Inc. (BLA) by Stan Schmitt. The data was originally provided in hard copy format and then digitized into an ESRI shapefile format, and was named CANALS_HISTORIC_ROUTES_SW. As part of the development of the State Wide GIS of Indiana, this file was expanded to include additional areas that were not part of the SW Indiana GIS and renamed Canal_Historic_Routes_IN.

Online_Linkage: <http://igs.indiana.edu/arcims/statewide/download.html>

Historical Sites, Areas, or Districts

Fort Wayne Local Historic Districts. Fort Wayne's Historic Preservation Commission, Division of Community Development

Indiana State Register of Historic Places. Indiana Division of Historic Preservation and Archaeology

The National Register of Historic Places. Administered by The National Park Service with the assistance of the Indiana DNR-Division of Historic Preservation and Archaeology and the City of Fort Wayne as a Certified Local Government (CLG)

Historic American Buildings Survey/Historic American Engineering Record. Library of Congress

National Historic Landmark. The National Park Service

WATERSHED HUC06 --

Watersheds - 6-Digit Hydrologic Units, 1991 (1:24,000)

Shows the boundaries of 6-digit hydrologic accounting units. Actual hydrologic units often extend beyond state and county boundaries. Created by dissolving the Digital Dataset of 14-digit hydrologic units in Indiana created by the U.S. Geological Survey and Natural Resources Conservation Service.

FGDC metadata: [WATERSHEDS_HUC06_USGS_IN](#)

Originator: (creation): US Geological Survey

Originator: (compilation): Bernardin, Lochmueller and Associates

Publication_Date: 20021100

Title: WATERSHEDS_HUC06_USGS_IN: 6-Digit Accounting Units, Hydrologic Units, in Indiana, (Derived from US Geological Survey, 1:24,000 Polygon Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Evansville, IN

Publisher: Bernardin, Lochmueller and Associates

Other_Citation_Details:

This dataset is derived from the Digital Dataset of 14-digit hydrologic units in Indiana created by the US Geological Survey and Natural Resources Conservation Service; <http://in.water.usgs.gov/> Dataset is one layer in the Indiana Statewide GIS Database funded by Indiana Department of Transportation.

Online_Linkage: <http://igs.indiana.edu/arcims/statewide/download.html>

WATERSHED HUC12 --

Watersheds - 12-Digit Hydrologic Units, 2009 (1:24,000)

Shows the boundaries of 12-digit hydrologic accounting units. Actual hydrologic units often extend beyond the state and county boundaries. FGDC metadata:

[WATERSHEDS_HUC12_USGS_IN](#)

Originator: (creation): US Geological Survey

Originator: U.S. Department of Agriculture, Natural Resources Conservation Service (digital compiler)

Originator: U.S. Geological Survey (compiler, digital compiler)

Originator: Indiana Geological Survey (digital compiler)

Originator: Sally L. Letsinger (digital compiler)

Publication_Date: 20110608

Title: WATERSHEDS_HUC12_2009_USDA_IN: Twelve-digit Subwatershed Boundaries for Indiana (United States Department of Agriculture, 1:24,000 Polygon Shapefile)

Geospatial_Data_Presentation_Form: Vector digital data

Publication_Place: Bloomington, Indiana

Publisher: Indiana Geological Survey

Other_Citation_Details:

These metadata are a revision of a metadata file named "WBD_archive_09Jul2010_9.2_File.gdb metadata" published on September 23, 2009, by the U.S. Department of Agriculture, Natural Resources Conservation Service, National Cartography and Geospatial Center, for a polygon feature class in the geodatabase entitled, "WBD_archive_09Jul2010_9.2_File.gdb."

Online_Linkage: <<http://igs.indiana.edu/arcims/statewide/download.html>>