

**Categorical Exclusion**  
**Appendix C**  
**Early Coordination**



March 31, 2020

Sample Early  
Coordination Letter

Re: Des. No. 1700123  
SR 14 Small Structure Project, 1.50 mi E of US 231  
Jasper County, Indiana

Dear :

The Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT), LaPorte District propose to proceed with the above referenced small structure project on SR 14, 1.50 miles east of US 231 in Jasper County, Indiana (Des. No. 1700123). The proposed project involves an existing small structure (CV 014-037-18.10) which conveys drainage to Oliver Ditch under SR 14.

This letter is part of the early coordination phase of the environmental review process requesting comments associated with these projects. Please use the above Des. No. and project description in your reply, and your comments will be incorporated into the formal environmental study. Your cooperation in this endeavor is appreciated.

*Project Location*

The proposed project is located in Jasper County, approximately 1.50 miles east of US 231. Specifically, the project is located in Sections 20, 21, 28, and 29; Township 30 North; and Range 6 West in Barkley Township of the Gifford & Parr U.S. Geological Survey (USGS) Quadrangles. Adjacent land use consists of agricultural and residential areas. Please see attachments for maps and photographs of the proposed project area.

*Existing Conditions*

SR 14 is functionally classified as a rural major collector within the project area and consists of two 12-foot asphalt travel lanes (one in each direction) and 4-foot gravel shoulders. The posted speed limit along SR 14 within the project area is 55 miles per hour. The existing structure (CV 014-037-18.10) is a 78-foot long corrugated metal pipe (CMP) with a varying diameter from 3-foot at the south end to 2-foot at the north end. The existing right-of-way (ROW) extends 15 feet north and south of the SR 14 centerline.

*Purpose and Need*

The need for this project stems from the deteriorating condition of the existing structure. According to an inspection in August 2017, the existing structures both had an overall condition

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of 3, which is “poor” condition. Signs of pavement failure and erosion around both pipes were observed. The purpose of the project is to restore the structural integrity of these small structures to an improved condition in order to achieved a condition rating of at least 8, which is considered “very good” condition, for all components of the structure.

#### *Proposed Project*

The proposed project will replace the existing structure with a new 78-foot long, 4-foot diameter pipe with a 6-inch sump. New riprap for scour protection will be installed at the outlet of the new structure. Additionally a drainage ditch will be constructed in the northeast quadrant and a new area of riprap will be placed at the bank of Oliver Ditch for scour protection. For a length of 15 feet on top of the new structure, the pavement will be replaced and brought to existing grade to match the approach roadway in both directions. There is an additional pipe that conveys drainage under SR 14 approximately 350 feet west of the culvert to be replaced (SC 014-056-18.04). This structure will remain in place and will not be affected by this project. Including incidental construction, the project will extend approximately 655 feet along SR 14.

The maintenance of traffic (MOT) will require a full closure of SR 14 and utilization of a detour. The MOT will be implemented per the *Indiana Design Manual* guidelines.

Construction is anticipated to begin in Fiscal Year (FY) 2022.

#### *Right-of-Way (ROW)*

The project is expected to require the acquisition of 3.68 acre of permanent ROW. The quantity of ROW may require refinement as the design of the project advances. This may include identifying the possible need to re-acquire apparent existing ROW. The width of the proposed ROW will vary from 30 feet north to 135 feet north and 15 feet south to 40 feet south of the SR 14 centerline. No tree clearing is anticipated for this project.

#### *Environmental Resources*

A Red Flag Investigation (RFI) was performed for a 0.5-mile radius for the project area. Several “Red Flags” were identified within the 0.5-mile search radius; however, not all will be impacted. One proposed trail; the Lawton, Ryan, & Oliver Ditches corridor; is located adjacent to the project area. One stream, Oliver Ditch, is located within the project area and is listed as impaired for *E. coli*. One wetland is located adjacent to the project area. Due to the proximity of water resources to the project area, a *Waters of the US Determination Report* will be prepared and coordination with INDOT Environmental Services Ecology and Waterway Permitting will occur. No additional “Red Flags” are mapped within the immediate vicinity of the project.

#### *Section 106*

The National Register of Historic Places (National Register) and the Indiana Register of Historic Sites and Structures (State Register) were checked using the State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Buildings, Bridges, and Cemeteries Map (IHBBCM). No properties on either list were identified within or near the project area. The *Jasper County Interim Report (2002)*, which includes the Indiana Historic Sites and Structures

Inventory (IHSSI) for the county, was also examined. No previously inventoried resources were recorded in the vicinity of the project area. No cemeteries were noted within the project area. The *Indiana Historic Bridge Inventory Volume 2: Listing of Historic and Non-Historic Bridges* (February 2009) by Mead & Hunt was reviewed. No bridges eligible for listing in the National Register were identified within the project area. It is anticipated that this project will qualify for the Minor Projects Programmatic Agreement (MPPA), under Category A-3, and A-9.

#### *Range-wide Informal Programmatic Consultation*

Jasper County is within the range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (*Myotis septentrionalis*). Land use in the vicinity of the project is primarily rural with agricultural and residential areas surrounding the project area. The project appears to fall under the Range-wide Programmatic Informal Consultation process. Completion of the appropriate determination key through the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) portal will occur.

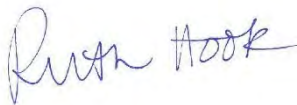
#### *Early Coordination*

Should we not receive your response within **30 calendar days** from the date of this letter, it will be assumed that your agency feels that there will be no adverse effects incurred as a result of the proposed project. However, should you find that an extension to the response time is necessary, a reasonable amount may be granted upon request.

If you have any questions regarding this project, please feel free to contact me at 317-222-3880 or at [RHook@lochgroup.com](mailto:RHook@lochgroup.com). Additionally, should you want to contact the sponsor of this project, INDOT LaPorte District, please contact the Project Manager, Mr. Bradon Downing, at (219) 325-7582 or at [bdowning1@indot.in.gov](mailto:bdowning1@indot.in.gov).

Thank you in advance for your input.

Sincerely,



Ruth Hook  
Environmental Lead  
Lochmueller Group, Inc.

#### Attachments:

- General Location Map
- USGS Topographical, Gifford & Parr Quadrangles Map
- Aerial Map
- Red Flag Investigation Maps

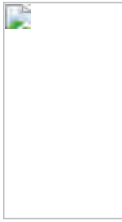
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see Appendix B & E

- Photo Location Map
- Project Photographs

Removed to avoid duplication;  
see Appendix B

Distribution List:

- Natural Resources Conservation Service, Indianapolis Office (electronic submission)
- U.S. Army Corps of Engineers, Detroit District (electronic submission)
- U.S. Housing and Urban Development
- Federal Highway Administration, Indiana Division (electronic submission)
- National Park Service
- Indiana Department of Natural Resources (IDNR), Division of Fish and Wildlife (electronic submission)
- Indiana Department of Environmental Management (IDEM) (electronic submission)
- INDOT, Office of Public Involvement (electronic submission)
- INDOT, Environmental Services (electronic submission)
- INDOT, LaPorte District (electronic submission)
- INDOT, LaPorte District Environmental Services (electronic submission)
- Indiana Geological Survey (electronic submission)
- Jasper County Highway Department (electronic submission)
- Jasper County Drainage Board
- Jasper County Board of Commissioners (electronic submission)
- Jasper County Council (electronic submission)
- Jasper County, Barkley Township Trustee
- Jasper County Surveyor's Office (electronic submission)
- Jasper County Emergency Management Agency
- Rensselaer Police Department (electronic submission)
- Jasper County Sheriff's Department
- Rensselaer Central Schools Corporation
- Jasper County Economic Development Organization
- Rensselaer Fire Department



# Indiana Department of Environmental Management

*We Protect Hoosiers and Our Environment.*

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Chris Kunkel  
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Indianapolis , IN 46268

Date

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: The Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT), LaPorte District propose to proceed with the above referenced small structure project on SR 14, 1.50 miles east of US 231 in Jasper County, Indiana (Des. No. 1700123). The proposed project involves an existing small structure (CV 014-037-18.10) which conveys drainage to Oliver Ditch under SR 14. The proposed project is located in Jasper County, approximately 1.50 miles east of US 231. Specifically, the project is located in Sections 20, 21, 28, and 29; Township 30 North; and Range 6 West in Barkley Township of the Gifford & Parr U.S. Geological Survey (USGS) Quadrangles. Adjacent land use consists of agricultural and residential areas. SR 14 is functionally classified as a rural major collector within the project area and consists of two 12-foot asphalt travel lanes (one in each direction) and 4-foot gravel shoulders. The posted speed limit along SR 14 within the project area is 55 miles per hour. The existing structure (CV 014-037-18.10) is a 78-foot long corrugated metal pipe (CMP) with a varying diameter from 3-foot at the south end to 2-foot at the north end. The existing right-of-way (ROW) extends 15 feet north and south of the SR 14 centerline. The proposed project will replace the existing structure with a new 78-foot long, 4-foot diameter pipe with a 6-inch sump. New riprap for scour protection will be installed at the outlet of the new structure. Additionally a drainage ditch will be constructed in the northeast quadrant and a new area of riprap will be placed at the bank of Oliver Ditch for scour protection. For a length of 15 feet on top of the new structure, the pavement will be replaced and brought to existing grade to match the approach roadway in both directions. There is an additional pipe that conveys drainage under SR 14 approximately 350 feet west of the culvert to be replaced (SC 014-056-18.04). This structure will remain in place and will not be affected by this project. Including incidental construction, the project will extend approximately 655 feet along SR 14. A Red Flag Investigation (RFI) was performed for a 0.5-mile radius for the project area. Several "Red Flags" were identified within the 0.5-mile search radius; however, not all will be impacted. One proposed trail; the Lawton, Ryan, & Oliver Ditches corridor; is located adjacent to the project area. One stream, Oliver Ditch, is located within the project area and is listed as impaired for E. coli. One wetland is located adjacent to the project area. Due to the proximity of water resources to the project area, a Waters of the US Determination Report will be prepared and coordination with INDOT Environmental Services Ecology and Waterway Permitting will occur. No additional "Red Flags" are mapped within the immediate vicinity of the project.

This letter from the Indiana Department of Environmental Management (IDEM) serves as a standardized response to enquiries inviting IDEM comments on roadway construction, reconstruction, or other improvement projects within existing roadway corridors when the proposed scope of the project is beneath the threshold requiring a formal National Environmental Policy Act-mandated Environmental Assessment or Environmental Impact Statement. As the letter attempts to address all roadway-related environmental topics of potential concern, it is possible that not every topic addressed in the letter will be applicable to your particular roadway project.

For additional information on specific roadway-related topics of interest, please visit the appropriate Web pages cited below, many of which provide contact information for persons within the various program areas who can answer questions not fully addressed in this letter. Also please be mindful that some environmental requirements may be subject to change and so each person intending to include a copy of this letter in their project documentation packet is advised to download the most recently revised version of the letter; found at: <http://www.in.gov/idem/5283.htm> (<http://www.in.gov/idem/5283.htm>).

To ensure that all environmentally-related issues are adequately addressed, IDEM recommends that you read this letter in its entirety, and consider each of the following issues as you move forward with the planning of your proposed roadway construction, reconstruction, or improvement project:

## WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such

alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management. A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

USACE recommends that you have a consultant check to determine whether your project will abut, or lie within, a wetland area. To view a list of consultants that have requested to be included on a list posted by the USACE on their Web site, see USACE Permits and Public Notices (<http://www.lrl.usace.army.mil/orf/default.asp>) (<http://www.lrl.usace.army.mil/orf/default.asp>) and then click on "Information" from the menu on the right-hand side of that page. Their "Consultant List" is the fourth entry down on the "Information" page. Please note that the USACE posts all consultants that request to appear on the list, and that inclusion of any particular consultant on the list does not represent an endorsement of that consultant by the USACE, or by IDEM.

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciusko, and Wells counties; smaller portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

Additional information on contacting these U.S. Army Corps of Engineers (USACE) District Offices, government agencies with jurisdiction over wetlands, and other water quality issues, can be found at <http://www.in.gov/idem/4396.htm> (<http://www.in.gov/idem/4396.htm>). IDEM recommends that impacts to wetlands and other water resources be avoided to the fullest extent.

2. In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality Wetlands Program. To learn more about the Wetlands Program, visit: <http://www.in.gov/idem/4384.htm> (<http://www.in.gov/idem/4384.htm>).
3. If the USACE determines that a wetland or other water body is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana. A State Isolated Wetland permit from IDEM's Office of Water Quality (OWQ) is required for any activity that results in the discharge of dredged or fill materials into isolated wetlands. To learn more about isolated wetlands, contact the OWQ Wetlands Program at 317-233-8488.
4. If your project will involve over a 0.5 acre of wetland impact, stream relocation, or other large-scale alterations to water bodies such as the creation of a dam or a water diversion, you should seek additional input from the OWQ Wetlands Program staff. Consult the Web at: <http://www.in.gov/idem/4384.htm> (<http://www.in.gov/idem/4384.htm>) for the appropriate staff contact to further discuss your project.
5. Work within the one-hundred year floodway of a given water body is regulated by the Department of Natural Resources, Division of Water. The Division issues permits for activities regulated under the following statutes:
  - IC 14-26-2 Lakes Preservation Act 312 IAC 11
  - IC 14-26-5 Lowering of Ten Acre Lakes Act No related code
  - IC 14-28-1 Flood Control Act 310 IAC 6-1
  - IC 14-29-1 Navigable Waterways Act 312 IAC 6
  - IC 14-29-3 Sand and Gravel Permits Act 312 IAC 6
  - IC 14-29-4 Construction of Channels Act No related code

For information on these Indiana (statutory) Code and Indiana Administrative Code citations, see the DNR Web site at: <http://www.in.gov/dnr/water/9451.htm> (<http://www.in.gov/dnr/water/9451.htm>). Contact the DNR Division of Water at 317-232-4160 for further information.

The physical disturbance of the stream and riparian vegetation, especially large trees overhanging any affected water bodies should be limited to only that which is absolutely necessary to complete the project. The shade provided by the large overhanging trees helps maintain proper stream temperatures and dissolved oxygen for aquatic life.

6. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality – Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page
  - <http://www.in.gov/idem/4902.htm> (<http://www.in.gov/idem/4902.htm>)

To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Plan (<http://www.in.gov/idem/4917.htm#constreq> (<http://www.in.gov/idem/4917.htm#constreq>)), and as described in

327 IAC 15-5-6.5 (<http://www.in.gov/legislative/iac/T03270/A00150> [PDF] (<http://www.in.gov/legislative/iac/T03270/A00150.PDF>), pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (<http://www.in.gov/isda/soil/contacts/map.html> (<http://www.in.gov/isda/soil/contacts/map.html>)).

Upon receipt of the construction plan, personnel of the SWCD or the Indiana Department of Environmental Management will review the plan to determine if it meets the requirements of 327 IAC 15-5. Plans that are deemed deficient will require re-submittal. If the plan is sufficient you will be notified and instructed to submit the verification to IDEM as part of the Rule 5 Notice of Intent (NOI) submittal. Once construction begins, staff of the SWCD or Indiana Department of Environmental Management will perform inspections of activities at the site for compliance with the regulation.

Please be mindful that approximately 149 Municipal Separate Storm Sewer System (MS4) areas are now being established by various local governmental entities throughout the state as part of the implementation of Phase II federal storm water requirements. All of these MS4 areas will eventually take responsibility for Construction Plan review, inspection, and enforcement. As these MS4 areas obtain program approval from IDEM, they will be added to a list of MS4 areas posted on the IDEM Website at: <http://www.in.gov/idem/4900.htm> (<http://www.in.gov/idem/4900.htm>).

If your project is located in an IDEM-approved MS4 area, please contact the local MS4 program about meeting their storm water requirements. Once the MS4 approves the plan, the NOI can be submitted to IDEM.

Regardless of the size of your project, or which agency you work with to meet storm water requirements, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, and after completion of the project, to minimize the impacts associated with storm water runoff. The use of appropriate planning and site development and appropriate storm water quality measures are recommended to prevent soil from leaving the construction site during active land disturbance and for post construction water quality concerns. Information and assistance regarding storm water related to construction activities are available from the Soil and Water Conservation District (SWCD) offices in each county or from IDEM.

7. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources - Division of Fish and Wildlife (317/232-4080) for addition project input.
8. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality - Drinking Water Branch (317-308-3299) regarding the need for permits.
9. For projects involving effluent discharges to waters of the State of Indiana, contact the Office of Water Quality - Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
10. For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality - Permits Branch (317-232-8675) regarding the need for permits.

## AIR QUALITY

The above-noted project should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations. Consideration should be given to the following:

1. Regarding open burning, and disposing of organic debris generated by land clearing activities; some types of open burning are allowed (<http://www.in.gov/idem/4148.htm> (<http://www.in.gov/idem/4148.htm>)) under specific conditions. You also can seek an open burning variance from IDEM.

However, IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on site (you must register with IDEM if more than 2,000 pounds is to be composted; contact 317/232-0066). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) onsite, although burying large quantities of such material can lead to subsidence problems, later on.

Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.

Additionally, if construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for 3-5 years precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus *Histoplasma capsulatum*, which stems from bird or bat droppings that have accumulated in one area for 3-5



years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at (317) 233-7272.

2. The U.S. EPA and the Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. (For a county-by-county map of predicted radon levels in Indiana, visit: <http://www.in.gov/idem/4145.htm> (<http://www.in.gov/idem/4145.htm>).

The U.S. EPA further recommends that all homes (and apartments within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L, or higher, EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L, or higher, EPA recommends the installation of radon-reduction measures. (For a list of qualified radon testers and radon mitigation (or reduction) specialists visit: [http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon\\_testers\\_mitigators\\_list.pdf](http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf) ([http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon\\_testers\\_mitigators\\_list.pdf](http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf).) It also is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

To learn more about radon, radon risks, and ways to reduce exposure visit:

<http://www.in.gov/isdh/regsvcs/radhealth/radon.htm> (<http://www.in.gov/isdh/regsvcs/radhealth/radon.htm>), <http://www.in.gov/idem/4145.htm> (<http://www.in.gov/idem/4145.htm>), or <http://www.epa.gov/radon/index.html> (<http://www.epa.gov/radon/index.html>).

3. With respect to asbestos removal: all facilities slated for renovation or demolition (except residential buildings that have (4) four or fewer dwelling units and which will not be used for commercial purposes) must be inspected by an Indiana-licensed asbestos inspector prior to the commencement of any renovation or demolition activities. If regulated asbestos-containing material (RACM) that may become airborne is found, any subsequent demolition, renovation, or asbestos removal activities must be performed in accordance with the proper notification and emission control requirements.

If no asbestos is found where a renovation activity will occur, or if the renovation involves removal of less than 260 linear feet of RACM off of pipes, less than 160 square feet of RACM off of other facility components, or less than 35 cubic feet of RACM off of all facility components, the owner or operator of the project does not need to notify IDEM before beginning the renovation activity.

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-888-574-8150.

However, in all cases where a demolition activity will occur (even if no asbestos is found), the owner or operator must still notify IDEM 10 working days prior to the demolition, using the form found at <http://www.in.gov/icpr/webfile/formsdiv/44593.pdf> (<http://www.in.gov/icpr/webfile/formsdiv/44593.pdf>).

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,600 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee of \$150 per project; projects below these amounts will be billed a fee of \$50 per project. All notification remitters will be billed on a quarterly basis.

For more information about IDEM policy regarding asbestos removal and disposal, visit: <http://www.in.gov/idem/4983.htm> (<http://www.in.gov/idem/4983.htm>).

4. With respect to lead-based paint removal: IDEM encourages all efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978, or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal visit: <http://www.in.gov/isdh/19131.htm> (<http://www.in.gov/isdh/19131.htm>).
5. Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months April through October. See 326 IAC 8-5-2, Asphalt Paving Rule (<http://www.ai.org/legislative/iac/T03260/A00080.PDF> (<http://www.ai.org/legislative/iac/T03260/A00080.PDF>)).
6. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (View at: [www.ai.org/legislative/iac/t03260/a00020.pdf](http://www.ai.org/legislative/iac/t03260/a00020.pdf) (<http://www.ai.org/legislative/iac/t03260/a00020.pdf>)). New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.

7. For more information on air permits visit: <http://www.in.gov/idem/4223.htm> (<http://www.in.gov/idem/4223.htm>), or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or OAMPROD atdem.state.in.us.

## LAND QUALITY

In order to maintain compliance with all applicable laws regarding contamination and/or proper waste disposal, IDEM recommends that:

1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ) at 317-308-3103.
2. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit <http://www.in.gov/idem/4998.htm> (<http://www.in.gov/idem/4998.htm>).
3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.
4. If PCBs are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.
5. If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes (Asbestos removal is addressed above, under Air Quality).
6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317/308-3039. See: <http://www.in.gov/idem/4999.htm> (<http://www.in.gov/idem/4999.htm>).

## FINAL REMARKS

Should you need to obtain any environmental permits in association with this proposed project, please be mindful that IC 13-15-8 requires that you notify all adjoining property owners and/or occupants within ten days your submittal of each permit application. However, if you are seeking multiple permits, you can still meet the notification requirement with a single notice if all required permit applications are submitted with the same ten day period.

Should the scope of the proposed project be expanded to the extent that a National Environmental Policy Act Environmental Assessment (EA) or Environmental Impact Statement (EIS) is required, IDEM will actively participate in any early interagency coordination review of the project.

Meanwhile, please note that this letter does not constitute a permit, license, endorsement or any other form of approval on the part of the Indiana Department of Environmental Management regarding any project for which a copy of this letter is used. Also note that it is the responsibility of the project engineer or consultant using this letter to ensure that the most current draft of this document, which is located at <http://www.in.gov/idem/5284.htm> (<http://www.in.gov/idem/5284.htm>), is used.

---

## Signature(s) of the Applicant

I acknowledge that the following proposed roadway project will be financed in part, or in whole, by public monies.

## Project Description

The Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT), LaPorte District propose to proceed with the above referenced small structure project on SR 14, 1.50 miles east of US 231 in Jasper County, Indiana (Des. No. 1700123). The proposed project involves an existing small structure (CV 014-037-18.10) which conveys drainage to Oliver Ditch under SR 14. The proposed project is located in Jasper County, approximately 1.50 miles east of US 231. Specifically, the project is located in Sections 20, 21, 28, and 29; Township 30 North; and Range 6 West in Barkley Township of the Gifford & Parr U.S. Geological Survey (USGS) Quadrangles. Adjacent land use consists of agricultural and residential areas. SR 14 is functionally classified as a rural major collector within the project area and consists of two 12-foot asphalt travel lanes (one in each direction) and 4-foot gravel shoulders. The posted speed limit along SR 14 within the project area is 55 miles per hour. The existing structure (CV 014-037-18.10) is a 78-foot long corrugated metal pipe (CMP) with a varying diameter from 3-foot at the south end to 2-foot at the north end. The existing right-of-way (ROW) extends 15 feet north and south of the SR 14 centerline. The proposed project will replace the existing structure with a new 78-foot long, 4-foot diameter pipe with a 6-inch sump. New riprap for scour protection will be installed at the outlet of the new structure. Additionally a drainage ditch will be constructed in the northeast quadrant and a new area of riprap will be placed at the bank of Oliver Ditch for scour protection. For a length of 15 feet on top of the new structure, the pavement will be replaced and brought to existing grade to match the approach roadway in both directions. There is an additional

pipe that conveys drainage under SR 14 approximately 350 feet west of the culvert to be replaced (SC 014-056-18.04). This structure will remain in place and will not be affected by this project. Including incidental construction, the project will extend approximately 655 feet along SR 14. A Red Flag Investigation (RFI) was performed for a 0.5-mile radius for the project area. Several "Red Flags" were identified within the 0.5-mile search radius; however, not all will be impacted. One proposed trail; the Lawton, Ryan, & Oliver Ditches corridor; is located adjacent to the project area. One stream, Oliver Ditch, is located within the project area and is listed as impaired for E. coli. One wetland is located adjacent to the project area. Due to the proximity of water resources to the project area, a Waters of the US Determination Report will be prepared and coordination with INDOT Environmental Services Ecology and Waterway Permitting will occur. No additional "Red Flags" are mapped within the immediate vicinity of the project.

With my signature, I do hereby affirm that I have read the letter from the Indiana Department of Environment that appears directly above. In addition, I understand that in order to complete that project in which I am interested, with a minimum of impact to the environment, I must consider all the issues addressed in the aforementioned letter, and further, that I must obtain any required permits.

Date: \_\_\_\_\_

Signature of the INDOT  
Project Engineer or Other Responsible Agent \_\_\_\_\_

**Bradon Downing**

Digitally signed by Bradon  
Downing  
Date: 2020.05.27 10:28:14 -05'00'

Bradon Downing

Date: 3/31/2020

Signature of the  
For Hire Consultant \_\_\_\_\_

*Chris Kunkel*

Chris Kunkel

## Organization and Project Information

**Project ID:**  
**Des. ID:** 1700123  
**Project Title:** SR 14 Small Structure Replacement  
**Name of Organization:** Lochmueller Group  
**Requested by:** Chris Kunkel

## Environmental Assessment Report

1. Geological Hazards:
  - Moderate liquefaction potential
  - 1% Annual Chance Flood Hazard
2. Mineral Resources:
  - Bedrock Resource: High Potential
  - Sand and Gravel Resource: Low Potential
3. Active or abandoned mineral resources extraction sites:
  - None documented in the area

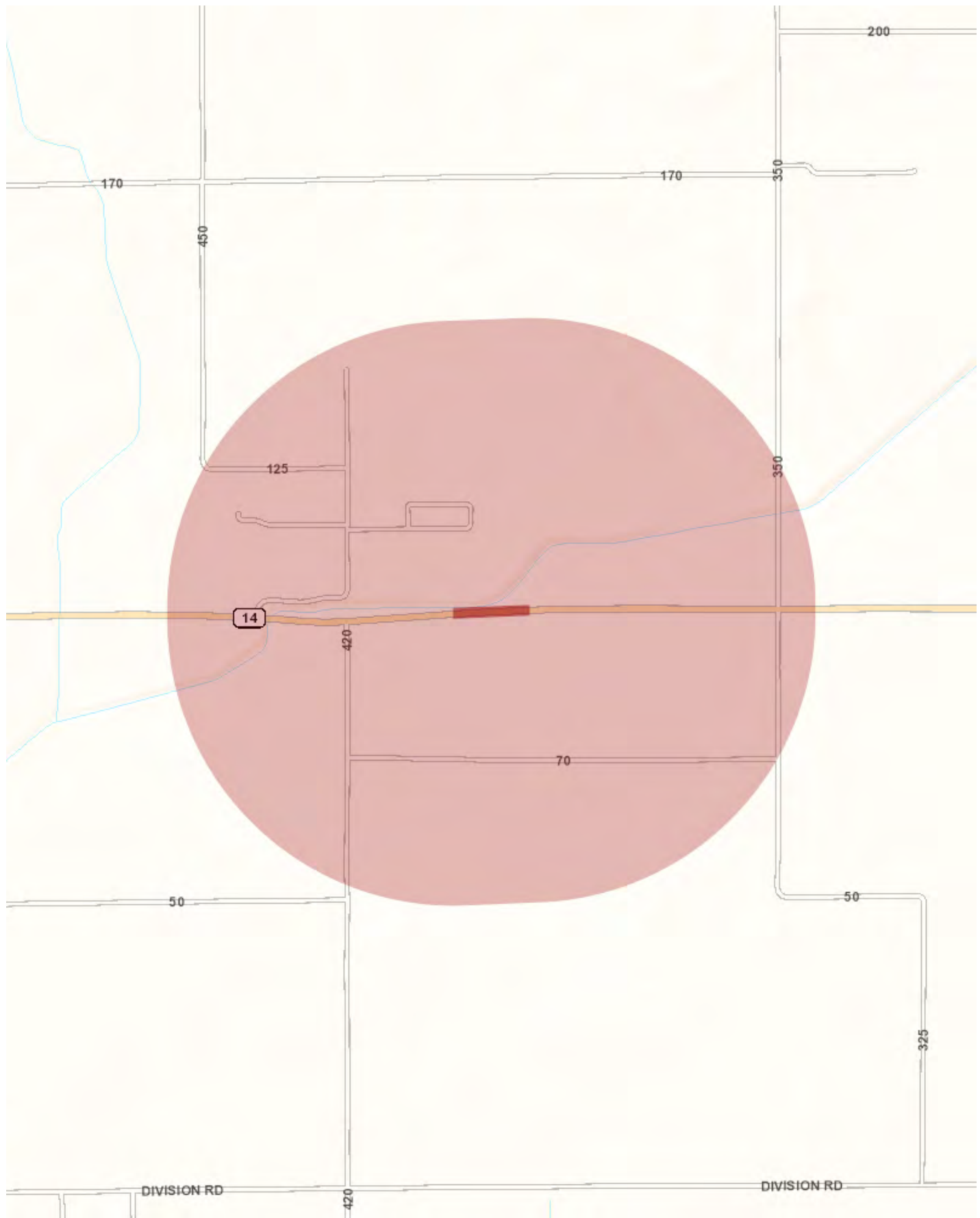
\*All map layers from Indiana Map ([maps.indiana.edu](http://maps.indiana.edu))

### **DISCLAIMER:**

This document was compiled by Indiana University, Indiana Geological Survey, using data believed to be accurate; however, a degree of error is inherent in all data. This product is distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of these data and document to define the limits or jurisdiction of any federal, state, or local government. The data used to assemble this document are intended for use only at the published scale of the source data or smaller (see the metadata links below) and are for reference purposes only. They are not to be construed as a legal document or survey instrument. A detailed on-the-ground survey and historical analysis of a single site may differ from these data and this document.

This information was furnished by Indiana Geological Survey  
Address: 420 N. Walnut St., Bloomington, IN 47404  
Email: IGSEnvir@indiana.edu  
Phone: 812 855-7428

Date: March 31, 2020



# Metadata:

- [https://maps.indiana.edu/metadata/Geology/Seismic\\_Earthquake\\_Liquefaction\\_Potential.html](https://maps.indiana.edu/metadata/Geology/Seismic_Earthquake_Liquefaction_Potential.html)
- [https://maps.indiana.edu/metadata/Geology/Industrial\\_Minerals\\_Sand\\_Gravel\\_Resources.html](https://maps.indiana.edu/metadata/Geology/Industrial_Minerals_Sand_Gravel_Resources.html)
- [https://maps.indiana.edu/metadata/Hydrology/Floodplains\\_FIRM.html](https://maps.indiana.edu/metadata/Hydrology/Floodplains_FIRM.html)
- [https://maps.indiana.edu/metadata/Geology/Bedrock\\_Geology.html](https://maps.indiana.edu/metadata/Geology/Bedrock_Geology.html)

April 6, 2020

Ruth Hook  
Lochmueller Group, Inc.  
3502 Woodview Trace, Suite 150  
Indianapolis, Indiana 46268

Dear Ms. Hook:

The proposed project to address the deteriorating condition of the existing structure along State Road 14 in Jasper County, Indiana, (Des No 1700123), as referred to in your letter received July 18, 2019, will not cause a conversion of prime farmland.

If you need additional information, please contact John Allen at 317-295-5859.

Sincerely,

**RICHARD** Digitally signed by  
RICHARD NEILSON  
**NEILSON** Date: 2020.04.08  
15:32:28 -04'00'

JERRY RAYNOR  
State Conservationist

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# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office

620 South Walker Street

Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

<http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html>

In Reply Refer To:

April 20, 2020

Consultation Code: 03E12000-2020-SLI-1109

Event Code: 03E12000-2020-E-05868

Project Name: SR 14 Small Structure Replacement Project (Des. No. 1700123)

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The attached species list identifies any federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the Service if they determine their project “may affect” listed species or critical habitat.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally. You may verify the list by visiting the ECOS-IPaC website <http://ecos.fws.gov/ipac/> at regular intervals during project planning and implementation and completing the same process you used to receive the attached list. As an alternative, you may contact this Ecological Services Field Office for updates.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - <http://www.fws.gov/midwest/endangered/section7/s7process/index.html>. This website contains step-by-step instructions which will help you



determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process.

For all **wind energy projects** and **projects that include installing towers that use guy wires or are over 200 feet in height**, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*) and Migratory Bird Treaty Act (16 U.S.C. 703 *et seq.*), as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at <http://www.fws.gov/midwest/midwestbird/EaglePermits/index.html> to help you determine if you can avoid impacting eagles or if a permit may be necessary.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Indiana Ecological Services Field Office**

620 South Walker Street

Bloomington, IN 47403-2121

(812) 334-4261

## Project Summary

Consultation Code: 03E12000-2020-SLI-1109

Event Code: 03E12000-2020-E-05868

Project Name: SR 14 Small Structure Replacement Project (Des. No. 1700123)

Project Type: TRANSPORTATION

**Project Description:** This project will involve the replacement of the existing structure (SC 014-037-18.10) that conveys agricultural and roadside drainage underneath SR 14 to Oliver Ditch with a new structure. The project is located along SR 14, approximately 1.50 miles east of US 231 in Jasper County, Indiana. SC 014-037-18.10 is a corrugated metal pipe (CMP) with varying diameter that is 78 feet long. The diameter is 2 feet at the inlet and 3 feet at the outlet. The new structure is a 45-foot long structure with a 4-foot diameter with a 6-foot sump. New riprap will be placed at the outlet of the new structure which control flow velocity into Oliver Ditch. Approximately 15 feet of the surface of SR 14 over the new structure will have new hot mix asphalt patching. This project will also involve the replacement of the existing guardrail along the north side of SR 14 with new guardrail. Suitable bat habitat is present near the project area; however, no suitable habitat will be cleared as part of this project. No permanent lighting is required for the project; however, if night work occurs, temporary lighting may be used during construction. The project limits extend for 655 feet along SR 14.

All work is expected to begin in the Spring of 2021.

The structures were investigated for the presence of bats or evidence of bats on October 3, 2018. No bats or evidence of bats were found.

A Red Flag Investigation was approved on August 3, 2019.

On January 24, 2019, a check of the USFWS database for the presence of endangered bats or their hibernacula was checked by INDOT LaPorte District personnel. No bats or their hibernacula were found.

**Project Location:**

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/41.02709593994606N87.12361440241784W>



Counties: Jasper, IN

## Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## Mammals

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a> Species survey guidelines: <a href="https://ecos.fws.gov/ipac/guideline/survey/population/1/office/31440.pdf">https://ecos.fws.gov/ipac/guideline/survey/population/1/office/31440.pdf</a>	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: <ul style="list-style-type: none"> <li>▪ Incidental take of the NLEB is not prohibited here. Federal agencies may consult using the 4(d) rule streamlined process. Transportation projects may consult using the programmatic process. See <a href="http://www.fws.gov/midwest/endangered/mammals/nleb/index.html">www.fws.gov/midwest/endangered/mammals/nleb/index.html</a></li> </ul> Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



## United States Department of the Interior



### FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office

620 South Walker Street

Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

<http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html>

In Reply Refer To:

April 20, 2020

Consultation Code: 03E12000-2020-I-1109

Event Code: 03E12000-2020-E-05870

Project Name: SR 14 Small Structure Replacement Project (Des. No. 1700123)

Subject: Concurrence verification letter for the 'SR 14 Small Structure Replacement Project (Des. No. 1700123)' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request to verify that the **SR 14 Small Structure Replacement Project (Des. No. 1700123)** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is not likely to adversely affect (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*).

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do not notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed Action under the terms of the NLAA concurrence provided in the PBO. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances, Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

**For Proposed Actions that include bridge/structure removal, replacement, and/or maintenance activities:** If your initial bridge/structure assessments failed to detect Indiana bats, but you later detect bats during construction, please submit the Post Assessment Discovery of Bats at Bridge/Structure Form (User Guide Appendix E) to this Service Office. In these instances, potential incidental take of Indiana bats may be exempted provided that the take is reported to the Service.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

## Project Description

The following project name and description was collected in IPaC as part of the endangered species review process.

### Name

SR 14 Small Structure Replacement Project (Des. No. 1700123)

### Description

This project will involve the replacement of the existing structure (SC 014-037-18.10) that conveys agricultural and roadside drainage underneath SR 14 to Oliver Ditch with a new structure. The project is located along SR 14, approximately 1.50 miles east of US 231 in Jasper County, Indiana. SC 014-037-18.10 is a corrugated metal pipe (CMP) with varying diameter that is 78 feet long. The diameter is 2 feet at the inlet and 3 feet at the outlet. The new structure is a 45-foot long structure with a 4-foot diameter with a 6-foot sump. New riprap will be placed at the outlet of the new structure which control flow velocity into Oliver Ditch. Approximately 15 feet of the surface of SR 14 over the new structure will have new hot mix asphalt patching. This project will also involve the replacement of the existing guardrail along the north side of SR 14 with new guardrail. Suitable bat habitat is present near the project area; however, no suitable habitat will be cleared as part of this project. No permanent lighting is required for the project; however, if night work occurs, temporary lighting may be used during construction. The project limits extend for 655 feet along SR 14.

All work is expected to begin in the Spring of 2021.

The structures were investigated for the presence of bats or evidence of bats on October 3, 2018. No bats or evidence of bats were found.

A Red Flag Investigation was approved on August 3, 2019.

On January 24, 2019, a check of the USFWS database for the presence of endangered bats or their hibernacula was checked by INDOT LaPorte District personnel. No bats or their hibernacula were found.



## Determination Key Result

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the threatened Northern long-eared bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

## Qualification Interview

1. Is the project within the range of the Indiana bat<sup>[1]</sup>?

[1] See [Indiana bat species profile](#)

**Automatically answered**

Yes

2. Is the project within the range of the Northern long-eared bat<sup>[1]</sup>?

[1] See [Northern long-eared bat species profile](#)

**Automatically answered**

Yes

3. Which Federal Agency is the lead for the action?

A) *Federal Highway Administration (FHWA)*

4. Are *all* project activities limited to non-construction<sup>[1]</sup> activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)

[1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting.

No

5. Does the project include *any* activities that are **greater than** 300 feet from existing road/rail surfaces<sup>[1]</sup>?

[1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

No

6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum<sup>[1]</sup>?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

*No*

7. Is the project located **within** a karst area?

*No*

8. Is there *any* suitable<sup>[1]</sup> summer habitat for Indiana Bat or NLEB **within** the project action area<sup>[2]</sup>? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the [national consultation FAQs](#).

*Yes*

9. Will the project remove *any* suitable summer habitat<sup>[1]</sup> and/or remove/trim any existing trees **within** suitable summer habitat?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

*No*

10. Does the project include activities **within documented Indiana bat habitat**<sup>[1][2]</sup>?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry triangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

*No*

11. Does the project include activities **within documented NLEB habitat**<sup>[1][2]</sup>?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry triangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

*No*

12. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

*No*

13. Does the project include slash pile burning?

*No*

14. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?

*Yes*

15. Is there *any* suitable habitat<sup>[1]</sup> for Indiana bat or NLEB **within** 1,000 feet of the bridge? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's current [summer survey guidance](#) for our current definitions of suitable habitat.

*Yes*

16. Has a bridge assessment<sup>[1]</sup> been conducted **within** the last 24 months<sup>[2]</sup> to determine if the bridge is being used by bats?

[1] See [User Guide Appendix D](#) for bridge/structure assessment guidance

[2] Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges that meet the physical characteristics described in the Programmatic Consultation, regardless of whether assessments have been conducted in the past. Due to the transitory nature of bat use, a negative result in one year does not guarantee that bats will not use that bridge/structure in subsequent years.

Yes

#### **SUBMITTED DOCUMENTS**

- *BridgeStructureAssessmentForm\_20181003.pdf* <https://ecos.fws.gov/ipac/project/5NKVWNQ5MNHAVMCX4627AHAFFPM/projectDocuments/20901767>

17. Did the bridge assessment detect *any* signs of Indiana bats and/or NLEBs roosting in/under the bridge (bats, guano, etc.)<sup>[1]</sup>?

[1] If bridge assessment detects signs of *any* species of bats, coordination with the local FWS office is needed to identify potential threatened or endangered bat species. Additional studies may be undertaken to try to identify which bat species may be utilizing the bridge prior to allowing *any* work to proceed.

Note: There is a small chance bridge assessments for bat occupancy do not detect bats. Should a small number of bats be observed roosting on a bridge just prior to or during construction, such that take is likely to occur or does occur in the form of harassment, injury or death, the PBO requires the action agency to report the take. Report all unanticipated take within 2 working days of the incident to the USFWS. Construction activities may continue without delay provided the take is reported to the USFWS and is limited to 5 bats per project.

No

18. Will the bridge removal, replacement, and/or maintenance activities include installing new or replacing existing **permanent** lighting?

No

19. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

No

20. Will the project involve the use of **temporary** lighting *during* the active season?

Yes

21. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

*Yes*

22. Will the project install new or replace existing **permanent** lighting?

*No*

23. Does the project include percussives or other activities (**not including tree removal/trimming or bridge/structure work**) that will increase noise levels above existing traffic/background levels?

*No*

24. Are *all* project activities that are **not associated with** habitat removal, tree removal/trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives, limited to actions that DO NOT cause any additional stressors to the bat species?

Examples: lining roadways, unlighted signage , rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.

*Yes*

25. Will the project raise the road profile **above the tree canopy**?

*No*

26. Are the project activities that are not associated with habitat removal, tree removal/trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives consistent with a No Effect determination in this key?

**Automatically answered**

*Yes, other project activities are limited to actions that DO NOT cause any additional stressors to the bat species as described in the BA/BO*

27. Is the bridge removal, replacement, or maintenance activities portion of this project consistent with a No Effect determination in this key?

**Automatically answered**

*Yes, because the bridge has been assessed using the criteria documented in the BA and no signs of bats were detected*

**28. General AMM 1**

Will the project ensure *all* operators, employees, and contractors working in areas of known or presumed bat habitat are aware of *all* FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable Avoidance and Minimization Measures?

Yes

**29. Lighting AMM 1**

Will *all* **temporary** lighting be directed away from suitable habitat during the active season?

Yes

## Project Questionnaire

1. Have you made a No Effect determination for *all* other species indicated on the FWS IPaC generated species list?

N/A

2. Have you made a May Affect determination for *any* other species on the FWS IPaC generated species list?

N/A

3. Please describe the proposed bridge work:

*The existing small structure will be removed and replaced with a structure that is larger in diameter. Guardrail along the north side of the road will be replaced as well.*

4. Please state the timing of all proposed bridge work:

*Spring 2021*

5. Please enter the date of the bridge assessment:

*October 3, 2018*

## Avoidance And Minimization Measures (AMMs)

This determination key result includes the commitment to implement the following Avoidance and Minimization Measures (AMMs):

**GENERAL AMM 1**

Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs.

**LIGHTING AMM 1**

Direct temporary lighting away from suitable habitat during the active season.

## **Determination Key Description: FHWA, FRA, FTA Programmatic Consultation For Transportation Projects Affecting NLEB Or Indiana Bat**

This key was last updated in IPaC on December 02, 2019. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the threatened **Northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should only be used to verify project applicability with the Service's [February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects](#). The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.



## APPENDIX D: Bridge/Structure Assessment Form

This form will be completed and submitted to the District Environmental Manager by the Contractor prior to conducting any work below the deck surface either from the underside; from activities above that bore down to the underside; from activities that could impact expansion joints; from deck removal on bridges; or from structure demolition for bridges/structures within 1000 feet of suitable bat habitat.

<b>DOT Project #</b> 1700123	<b>Water Body</b> agricultural drainage	<b>Date/Time of Inspection</b> October 3, 2018 10:30 AM	<b>Within 1,000ft of suitable bat habitat (circle one)</b>  <div style="text-align: center;"> <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">Yes</span>            No         </div>
---------------------------------	--	--	--

<b>Route</b>	<b>County</b>	<b>Federal Structure ID</b>
SR 14	Jasper	Fed: N/A INDOT: SC 014-037-18.10

**If the bridge/structure is 1,000 feet or more from suitable bat habitat (e.g., an urban or agricultural area without suitable foraging habitat or corridors linking the bridge to suitable foraging habitat), check box and STOP HERE. No assessment required.**

**Please submit to the U.S. Fish and Wildlife Service.**

**Areas Inspected (Check all that apply)**

Bridges		Culverts/Other Structures		Summary Info (circle all that apply)			
All vertical crevices sealed at the top and 0.5-1.25" wide & ≥4" deep		Crevices, rough surfaces or imperfections in concrete	X	Human disturbance or traffic under bridge/in culvert or at the structure	High	Low	None
All crevices >12" deep & not sealed		Spaces between walls, ceiling joists	X	Possible corridors for netting	None/poor	Marginal	Excellent
All guardrails							
All expansion joints							
Spaces between concrete end walls and the bridge deck							

Last Revised May 31, 2017

Vertical surfaces on concrete I-beams							
---------------------------------------	--	--	--	--	--	--	--

**Evidence of Bats (Circle all that apply)** Presence of one or more indicators is sufficient evidence that bats may be using the structure.

None

Visual (e.g. survey, thermal, emergent etc.)

- Live \_\_ number seen
- Dead \_\_ number seen

Photo documentation Y/N

Guano

- Odor Y/N
- Photo documentation Y/N

Staining definitively from bats

Photo documentation Y/N

Audible

<b>Assessment Conducted By:</b> <u>Samantha Beaupre</u> <b>Signature(s):</b> <u><i>Samantha Beaupre</i></u>
<b>District Environmental Use Only:</b> Date Received by District Environmental Manager: _____

**DOT Bat Assessment Form Instructions**

1. Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges, regardless of whether assessments have been conducted in the past.
2. Any bridge/structure suspected of providing habitat for any species of bat will be removed from work schedules until such time that the DOT has coordinated with the USFWS. Additional studies may be undertaken by the DOT to determine what species may be utilizing each structure identified as supporting bats prior to allowing any work to proceed.
3. Any questions should be directed to the District Environmental Manager.

Last Revised June 2017

**State of Indiana**  
**DEPARTMENT OF NATURAL RESOURCES**  
**Division of Fish and Wildlife**  
Early Coordination/Environmental Assessment

**DNR #:** ER-22403

**Request Received:** March 31, 2020

**Requestor:** Lochmueller Group Inc  
Ruth Hook  
3502 Woodview Trace, Suite 150  
Indianapolis, IN 46268

**Project:** SR 14 small structure (CV 014-037-18.10) replacement over UNT Oliver Ditch, 1.50 miles east of US 231; Des #1700123

**County/Site info:** Jasper

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

**Regulatory Assessment:** This proposal will require the formal approval for construction in a floodway under the Flood Control Act, IC 14-28-1. Please submit a copy of this letter with the permit application.

**Natural Heritage Database:** The Natural Heritage Program's data have been checked. To date, no plant or animal species listed as state or federally threatened, endangered, or rare have been reported to occur in the project vicinity.

**Fish & Wildlife Comments:** Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest extent possible, and compensate for impacts.

1) Riparian Habitat:

We recommend a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. The DNR's Floodway Habitat Mitigation guidelines (and plant lists) can be found online at: <http://www.in.gov/legislative/iac/20190130-IR-312190041NRA.xml.pdf>. Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees).

2) Wetland Habitat:

Due to the presence or potential presence of wetland habitat on site, we recommend contacting and coordinating with the Indiana Department of Environmental Management (IDEM) 401 program and also the US Army Corps of Engineers (USACE) 404 program. Impacts to wetland habitat should be mitigated at the appropriate ratio (see <http://www.in.gov/legislative/iac/20190130-IR-312190041NRA.xml.pdf>).

The additional measures listed below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:

1. Revegetate all bare and disturbed areas within the project area using a mixture of grasses (excluding all varieties of tall fescue), sedges, and wildflowers native to Northern Indiana and specifically for stream bank/floodway stabilization purposes as

**State of Indiana**  
**DEPARTMENT OF NATURAL RESOURCES**  
**Division of Fish and Wildlife**  
**Early Coordination/Environmental Assessment**

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soon as possible upon completion.

2. Minimize and contain within the project limits inchannel disturbance and the clearing of trees and brush.
3. Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.
4. Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
5. Do not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure.
6. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
7. Do not use broken concrete as riprap.
8. Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
9. Minimize the movement of resuspended bottom sediment from the immediate project area.
10. Do not deposit or allow demolition/construction materials or debris to fall or otherwise enter the waterway.
11. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
12. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.
13. Do not excavate or place fill in any riparian wetland.

**Contact Staff:**

Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife  
Our agency appreciates this opportunity to be of service. Please contact the above staff member at (317) 232-4080 if we can be of further assistance.

*Christie L. Stanifer*

**Date:** April 30, 2020

Christie L. Stanifer  
Environ. Coordinator  
Division of Fish and Wildlife

**Categorical Exclusion**

# **Appendix D**

**Section 106 of the National Historic  
Preservation Act (NHPA)**

## Minor Projects PA Project Assessment Form– Category B Projects with Archaeology Work

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**Date:** 8/22/19

**Project Designation Number:** 1700123

**Route Number:** SR 14

**Project Description:** Small Structure Replacement, 1.50 mi E of US 231

The existing structures are a 2- to 3-foot diameter, 78-foot long corrugated metal pipe (CMP) and a 1- to 1.5-foot diameter, 68-foot long CMP. The existing structures will be removed and replaced with new small structures. The larger proposed replacement structure will be a 78-foot long, 4-foot diameter pipe with a 6-inch sump. The smaller proposed replacement structure will be a 68-foot long, 2-foot diameter pipe with a headwall and 3-inch sump. In addition to the new structures, scour protection and bank stabilization is anticipated to be installed. The project is expected to require the acquisition of 0.83 acre of permanent right-of-way (ROW).

**Feature crossed (if applicable):** Oliver Ditch

**Township:** Barkley Township

**City/County:** Jasper County

**Information reviewed (please check all that apply):**

- General project location map     USGS map     Aerial photograph     Interim Report
- Written description of project area     General project area photos     Soil survey data
- Previously completed historic property reports     Previously completed archaeology reports
- Bridge Inspection Information

**Other (please specify):** SHAARD GIS; SHAARD; online street-view imagery; Indiana Historic Building, Bridges, and Cemeteries (IHBBC) map; County GIS data (accessed via <https://beacon.schneidercorp.com>); project information provided by Lochmueller Group, Inc. dated 8/1/2019;

Bubb, Louis

2019 Phase Ia Field Reconnaissance for a New Small Structure along SR 14 (Des. 1700123), 1.4 km (1.5 mi) east of US 231 in Barkley Township, Jasper County, Indiana. Report on file, Indiana Department of Transportation, Cultural Resources Office, Indianapolis, In.

### Results of the Records Review for Above-Ground Resources:

With regard to above-ground resources, an INDOT Cultural Resources Office (CRO) historian, who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61, first performed a desktop review, checking the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (National Register) lists for Jasper County. No listed

resources are present within 0.25 mile of the project area, a distance that would serve as an adequate area of potential effects (APE) given the scope of the project and the surrounding terrain.

The *Jasper County Interim Report* (2002; Barkley Township) of the Indiana Historic Sites and Structures Inventory (IHSSI) was also consulted. The National Register & IHSSI information is available in the Indiana State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Historic Buildings, Bridges, and Cemeteries (IHBBC) map. The SHAARD information was checked against the Interim Report hard copy maps. No IHSSI sites are recorded within 0.25 mile of the project.

Land surrounding the area is rural with agricultural fields, residential houses, and farming-related outbuildings present. The topography is gently rolling. Within 0.25 mile of the project area, eight (8) properties are present. Six (6) of these properties, consisting of residential houses and farming-related outbuildings, were constructed in the late-twentieth century. One residential house was constructed in the early-twentieth century. The other property, a residential house, was constructed in the early-twenty-first century. However, Oliver Ditch and agricultural fields are immediately adjacent to the subject structures. Based on a review of online street-view imagery and aerial photography, no unusual features are present that may be impacted by the project. Further, there is no evidence to suggest that any of these resources possess the significance and integrity necessary to be considered potentially eligible for the National Register.

The existing structures (CV 014-037-18.10 & SC 014-037-18.04) are corrugated metal pipes (CMPs), but as both structures are functionally classified as pipes due to their small diameter of less than four feet, neither structure appears in the Bridge Inspection Application System (BIAS). Based on an examination of photos provided from Lochmueller Group, Inc. and on file at INDOT-CRO, the structure exhibits no wood, stone, or brick structures or parts therein. In addition, there is no evidence to suggest that it possesses historical or engineering significance.

Based on the available information, as summarized above, no above-ground concerns exist as long as the project scope does not change.

**Archaeology Report Author/Date:**

Louis Bubb/August 21, 2019

**Summary of Archaeology Investigation Results:**

An archaeological records check and Phase Ia field reconnaissance (Bubb 2019) were conducted by 106 Consulting personnel who meet the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61. The archaeological records check identified no previously recorded sites or recorded studies within or adjacent to the project area. A 7.1 acre survey area was examined through visual walkover survey, pedestrian transects, and shovel probes. One archaeological site was identified in the project area but it was determined to be ineligible to the NRHP and no further work was recommended. The report was reviewed by INDOT Cultural Resources personnel who meet the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61. It is our opinion that the report is acceptable, and we concur with the evaluations and recommendations made by 106 Consulting (Bubb: August 21, 2019). Therefore, there are no archaeological concerns.

**Does the project appear to fall under the Minor Projects PA?**      yes       no

**If yes, please specify category and number (applicable conditions are highlighted):**

A-9. Installation, repair, or replacement of erosion control measures along roadways, waterways and bridge piers within previously disturbed soils.

- B-9. Installation, replacement, repair, lining, or extension of culverts and other drainage structures under the conditions listed below [***BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied***]:

**Condition A (Archaeological Resources)**

One of the two conditions listed below must be met (*EITHER Condition i or Condition ii must be satisfied*):

- i. Work occurs in previously disturbed soils; *OR*
- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

**Condition B (Above-Ground Resources)**

One of the conditions below must be met (*EITHER Condition i or Condition ii must be satisfied*):

- i. Work does not involve installation of a new culvert and other drainage structure, and there are no impacts to unusual features, including but not limited to historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under one of the following conditions (*Condition a, Condition b, or Condition c must be satisfied*):
  - a. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
  - b. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*
  - c. The structure exhibits non-modern wood, stone, or brick structures or parts therein and the following conditions are met (*BOTH Condition 1 AND Condition 2 must be met*):
    1. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
    2. The structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.
- ii. Work involves the installation of a new culvert and other drainage structures AND/OR there may be impacts to unusual features, including historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under the following conditions (*BOTH Condition a and Condition b must be satisfied*):
  - a. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
  - b. The subject structure exhibits one of the characteristics described below (*Condition 1, Condition 2 or Condition 3 must be satisfied*).
    1. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
    2. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*
    3. The structure exhibits non-modern wood, stone, or brick structures or parts therein but lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance



**If no, please explain:**

**Additional comments:** If any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, construction in the immediate area of the find will be stopped and the INDOT Cultural Resources office and the Division of Historic Preservation and Archaeology will be notified immediately.

**INDOT Cultural Resources staff reviewer(s):** Kelyn Alexander and Shaun Miller

*\*\*\*Be sure to attach this form to the National Environmental Policy Act documentation for this project. Also, the NEPA documentation shall reference and include the description of the specific stipulation in the PA that qualifies the project as exempt from further Section 106 review.*

## Chris Kunkel

---

**From:** Gary Quigg  
**Sent:** Monday, June 1, 2020 10:07 AM  
**To:** Chris Kunkel  
**Subject:** FW: SR 14 Small Structure Improvement\_Des. No. 1700123\_Additional ROW\_Jasper County

Here ya go Chris.

Let me know if you need anything else.

**Gary Quigg, M.A., R.P.A.**  
Historian-Archaeologist/Section 106 Specialist  
**Lochmueller Group**

317.334.6803 (direct)  
[GQuigg@lochgroup.com](mailto:GQuigg@lochgroup.com)

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---

**From:** Miller, Shaun (INDOT) <[smiller@indot.IN.gov](mailto:smiller@indot.IN.gov)>  
**Sent:** Tuesday, March 31, 2020 8:54 AM  
**To:** Quigg, Gary <[GQuigg@lochgroup.com](mailto:GQuigg@lochgroup.com)>  
**Cc:** Alexander, Kelyn <[KAlexander3@indot.IN.gov](mailto:KAlexander3@indot.IN.gov)>; Hook, Ruth <[RHook@lochgroup.com](mailto:RHook@lochgroup.com)>; Costa, Chad <[CCosta@lochgroup.com](mailto:CCosta@lochgroup.com)>; Blad, Hannah <[HBlad@lochgroup.com](mailto:HBlad@lochgroup.com)>  
**Subject:** RE: SR 14 Small Structure Improvement\_Des. No. 1700123\_Additional ROW\_Jasper County

Thanks Gary. No additional archaeology is necessary because the additional r/w area is within the area investigated for archaeological resources by CRA.

Thank you,

Shaun Miller  
INDOT, Cultural Resources Office  
Archaeology Team Lead  
(317)233-6795

---

**From:** Quigg, Gary <[GQuigg@lochgroup.com](mailto:GQuigg@lochgroup.com)>  
**Sent:** Monday, March 30, 2020 5:10 PM  
**To:** Miller, Shaun (INDOT) <[smiller@indot.IN.gov](mailto:smiller@indot.IN.gov)>  
**Cc:** Alexander, Kelyn <[KAlexander3@indot.IN.gov](mailto:KAlexander3@indot.IN.gov)>; Hook, Ruth <[RHook@lochgroup.com](mailto:RHook@lochgroup.com)>; Costa, Chad <[CCosta@lochgroup.com](mailto:CCosta@lochgroup.com)>; Blad, Hannah <[hblad@lochgroup.com](mailto:hblad@lochgroup.com)>  
**Subject:** RE: SR 14 Small Structure Improvement\_Des. No. 1700123\_Additional ROW\_Jasper County

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Hi Shaun,

I don't think you need to update the MPPA determination form.

This information was for your records, and to confirm that you concur we do not need additional archaeology.

Thanks!

**Gary Quigg, M.A., R.P.A.**  
Historian-Archaeologist/Section 106 Specialist  
**Lochmueller Group**

317.334.6803 (direct)  
[GQuigg@lochgroup.com](mailto:GQuigg@lochgroup.com)

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**From:** Miller, Shaun (INDOT) <[smiller@indot.IN.gov](mailto:smiller@indot.IN.gov)>  
**Sent:** Friday, March 27, 2020 3:29 PM  
**To:** Quigg, Gary <[GQuigg@lochgroup.com](mailto:GQuigg@lochgroup.com)>  
**Cc:** Alexander, Kelyn <[KAlexander3@indot.IN.gov](mailto:KAlexander3@indot.IN.gov)>  
**Subject:** RE: SR 14 Small Structure Improvement\_Des. No. 1700123\_Additional ROW\_Jasper County

Hi Gary,

Do you want me to update the form so it includes the additional r/w for easement? Or is this simply for our records?

Thanks,

Shaun Miller  
INDOT, Cultural Resources Office  
Archaeology Team Lead  
(317)233-6795

---

**From:** Quigg, Gary <[GQuigg@lochgroup.com](mailto:GQuigg@lochgroup.com)>  
**Sent:** Thursday, March 19, 2020 11:07 AM  
**To:** Miller, Shaun (INDOT) <[smiller@indot.IN.gov](mailto:smiller@indot.IN.gov)>  
**Cc:** Kumar, Anuradha <[akumar@indot.IN.gov](mailto:akumar@indot.IN.gov)>; Branigin, Susan <[SBranigin@indot.IN.gov](mailto:SBranigin@indot.IN.gov)>; Costa, Chad <[CCosta@lochgroup.com](mailto:CCosta@lochgroup.com)>; Hook, Ruth <[RHook@lochgroup.com](mailto:RHook@lochgroup.com)>; Blad, Hannah <[HBlad@lochgroup.com](mailto:HBlad@lochgroup.com)>; Vereb, Michael <[MVereb@lochgroup.com](mailto:MVereb@lochgroup.com)>; Kunkel, Chris <[CKunkel@lochgroup.com](mailto:CKunkel@lochgroup.com)>  
**Subject:** SR 14 Small Structure Improvement\_Des. No. 1700123\_Additional ROW\_Jasper County

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Hi Shaun,

An MPPA determination form was completed by INDOT CRO on August 22, 2019 for the above-referenced project.

We recently learned INDOT is planning to acquire additional ROW in the project area in order to obtain an easement to the adjacent ditch.

The construction limits will remain the same, and will not extend into the additional ROW. The construction limits remain within the area surveyed for the archaeological reconnaissance.

Attached please find a map showing the construction limits and archaeological survey area (labelled as project area), and a map showing the additional ROW area.

The shape files for the additional ROW were unavailable for us to provide one all-inclusive map.

We just wanted to make sure you were aware of this information.

Please let me know if you need anything further.

Thank you.

**Gary Quigg, M.A., R.P.A.**  
Historian-Archaeologist/Section 106 Specialist  
**Lochmueller Group**

3502 Woodview Trace, Suite 150, Indianapolis, IN 46268

317.334.6803 (direct)

[GQuigg@lochgroup.com](mailto:GQuigg@lochgroup.com)

<http://lochgroup.com>

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**Categorical Exclusion**

**Appendix E**

**Red Flag Investigation  
& Hazardous Materials**



# INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue  
Room N642  
Indianapolis, Indiana 46204

PHONE: (317) 232-5113  
FAX: (317) 233-4929

**Eric Holcomb, Governor**  
**Joe McGuinness,**  
**Commissioner**

Date: May 22, 2019

To: Site Assessment & Management  
Environmental Policy Office- Environmental Services Division  
Indiana Department of Transportation  
100 N Senate Avenue, Room N642  
Indianapolis, IN 46204

From: Angela Kattmann  
3502 Woodview Trace, Suite 150  
Indianapolis, IN  
[AKattmann@lochgroup.com](mailto:AKattmann@lochgroup.com)

Re: RED FLAG INVESTIGATION  
Des. No. 1700123, State Project  
Small Structure Replacement  
State Road 14, 1.50 mi E of US 231  
Jasper County, Indiana

## PROJECT DESCRIPTION

Brief Description of Project: The Federal Highway Administration and the Indiana Department of Transportation, LaPorte District proposes to proceed with a small structure replacement project in central Jasper County, Indiana (Des. No. 1700123). The proposed project will involve the replacement of two existing small culverts (SC 014-037-18.10 & SC 014-037-18.04) that carry drainage under SR 14, 1.50 mile east of US 231. The existing culverts are a 2- to 3-foot diameter, 78-foot long corrugated metal pipe and a 1- to 1.5-foot diameter, 68-foot long corrugated metal pipe. The larger proposed replacement structure will be a 78-foot long, 4-foot diameter pipe with a 6-inch sump. The smaller proposed replacement structure will be a 68-foot long, 2-foot diameter pipe with a headwall and 3-inch sump. In addition to the two (2) structures, scour protection and bank stabilization are anticipated to be installed. The project is expected to require the acquisition of 0.83 acre of permanent right-of-way.

Bridge and/or Culvert Project: Yes  No  Structure # SC 014-037-18.10 & SC 014-037-18.04

If this is a bridge project, is the bridge Historical? Yes  No , Select  Non-Select

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Proposed right of way: Temporary  # Acres \_\_\_\_\_ Permanent  # Acres 0.83, Not Applicable

Type of excavation: The maximum anticipated depth of excavation from the bottom of the existing culverts is 3 feet. The maximum anticipated depth of excavation from the roadway surface is 10 feet at the inlet of the existing structures and 19 feet at the outlet of the existing structures.

Maintenance of traffic: The maintenance of traffic will require a full closure of SR 14 and utilization of a detour.

[www.in.gov/dot/](http://www.in.gov/dot/)

**An Equal Opportunity Employer**

Work in waterway: Yes  No  Below ordinary high water mark: Yes  No

State Project:  LPA:

Any other factors influencing recommendations: N/A

**INFRASTRUCTURE TABLE AND SUMMARY**

<b>Infrastructure:</b> Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	N/A	Recreational Facilities	N/A
Airports <sup>1</sup>	N/A	Pipelines	N/A
Cemeteries	N/A	Railroads	N/A
Hospitals	N/A	Trails	1
Schools	N/A	Managed Lands	N/A

<sup>1</sup>In order to complete the required airport review, a review of public airports within 3.8 miles (20,000 feet) is required.

Explanation:

*Trails:* One potential (1) trail is located within the 0.5 mile search radius. The Lawton, Ryan, & Oliver Ditches corridor is located adjacent to the project area. Coordination with the Jasper County Economic Development Organization will occur.

**WATER RESOURCES TABLE AND SUMMARY**

<b>Water Resources:</b> Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	14
Canal Structures – Historic	N/A	Lakes	N/A
NPS NRI Listed	N/A	Floodplain - DFIRM	1
NWI-Lines	4	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	1	Sinkhole Areas	N/A
Rivers and Streams	1	Sinking-Stream Basins	N/A

Explanation:

*NWI-Lines:* Four (4) NWI-line segments are located within the 0.5 mile search radius. One (1) NWI-line, Oliver Ditch, flows through the project area. A Waters of the US Report will be prepared and coordination with INDOT Environmental Services (ES) Ecology and Permitting will occur.

*IDEM 303d Listed Streams and Lakes (Impaired):* One (1) impaired stream, Oliver Ditch, is located within the 0.5 mile search radius. Oliver Ditch flows through the project area. Oliver Ditch is impaired for *E. coli*. Workers who are working

in or near water with *E. coli* should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.

*Rivers and Streams:* One (1) stream segment is located within the 0.5 mile search radius. One (1) stream segment, Oliver Ditch, flows through the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Permitting will occur.

*NWI-Wetlands:* Fourteen (14) wetland polygons are located within the 0.5 mile search radius. One (1) wetland is located adjacent to the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Permitting will occur.

*Floodplain-DFIRM:* One (1) floodplain polygon is located within the 0.5 mile search. The project area is located within the floodplain polygon. Coordination with INDOT Ecology and Waterway Permitting will occur.

**URBANIZED AREA BOUNDARY SUMMARY**

Explanation: The project is not located within an urbanized area boundary.

**MINING AND MINERAL EXPLORATION TABLE AND SUMMARY**

<b>Mining/Mineral Exploration:</b> Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	N/A	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation:

No Mining and Mineral Exploration resources were identified within the 0.5 mile search radius.

**HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY**

<b>Hazardous Material Concerns:</b> Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	N/A	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	N/A	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	N/A
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	N/A
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A



Leaking Underground Storage (LUST) Sites	N/A	Notice of Contamination Sites	N/A
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Explanation:

No Hazardous Materials Concerns were identified within the 0.5 mile search radius.

**ECOLOGICAL INFORMATION SUMMARY**

The Jasper County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT ES did indicate the presence of endangered species. Coordination with the United States Fish and Wildlife Service (USFWS) and Indiana Department of Natural Resources (IDNR) will occur.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in a rural area surrounded by agricultural fields. The small structures are not inventoried in the INDOT Bridge Inspection Application System (BIAS) and an inspection report for SC 014-037-18.10 & SC 014-037-18.04 could not be identified. Additional investigation to confirm the presence or absence of bats in the culverts will be necessary. The range-wide programmatic consultation for the Indiana bat and northern long-eared bat will be completed according to “Using the USFWS’s IPaC System for Listed Bat Consultation for INDOT Projects”.

An inquiry using the USFWS Information for Planning and Consultation (IPaC) website did not indicate the presence of the federally endangered species, the Rusty Patched Bumble Bee, in or within 0.5 mile of the project area. No impact is expected.

**RECOMMENDATIONS SECTION**

Include recommendations from each section. If there are no recommendations, please indicate N/A:

INFRASTRUCTURE:

*Trails:* The Lawton, Ryan, & Oliver Ditches corridor is located adjacent to the project area. Coordination with the Jasper County Economic Development Organization will occur.

**WATER RESOURCES:** One (1) impaired stream, Oliver Ditch, flows through the project area. Oliver Ditch is impaired for *E. coli*. Workers who are working in or near water with *E. coli* should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.

The presence of following water resources will require the preparation of a Waters of the US Report and coordination with INDOT ES Ecology and Waterway Permitting:

- One (1) NWI-line, Oliver Ditch, flows through the project area.
- One (1) stream segment, Oliver Ditch, flows through the project area.
- One (1) wetland is located adjacent to the project area.
- The project is located in a floodplain (coordination only)

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: N/A

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ECOLOGICAL INFORMATION: Coordination with USFWS and IDNR will occur. Additional investigation to confirm the presence or absence of bats in the culverts will be necessary. The range-wide programmatic consultation for the Indiana bat and northern long-eared bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

 Digitally signed by  
Ronald Bales  
Date: 2019.08.03 22:53:39  
-04'00'

INDOT Environmental Services concurrence: \_\_\_\_\_ (Signature)

Prepared by:



Angela Kattmann  
Environmental Geologist, LPG  
Lochmueller Group, Inc.

**Graphics:**

A map for each report section with a 0.5 mile search radius buffer around all project area(s) showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

INFRASTRUCTURE: YES

WATER RESOURCES: YES

URBANIZED AREA BOUNDARY: N/A

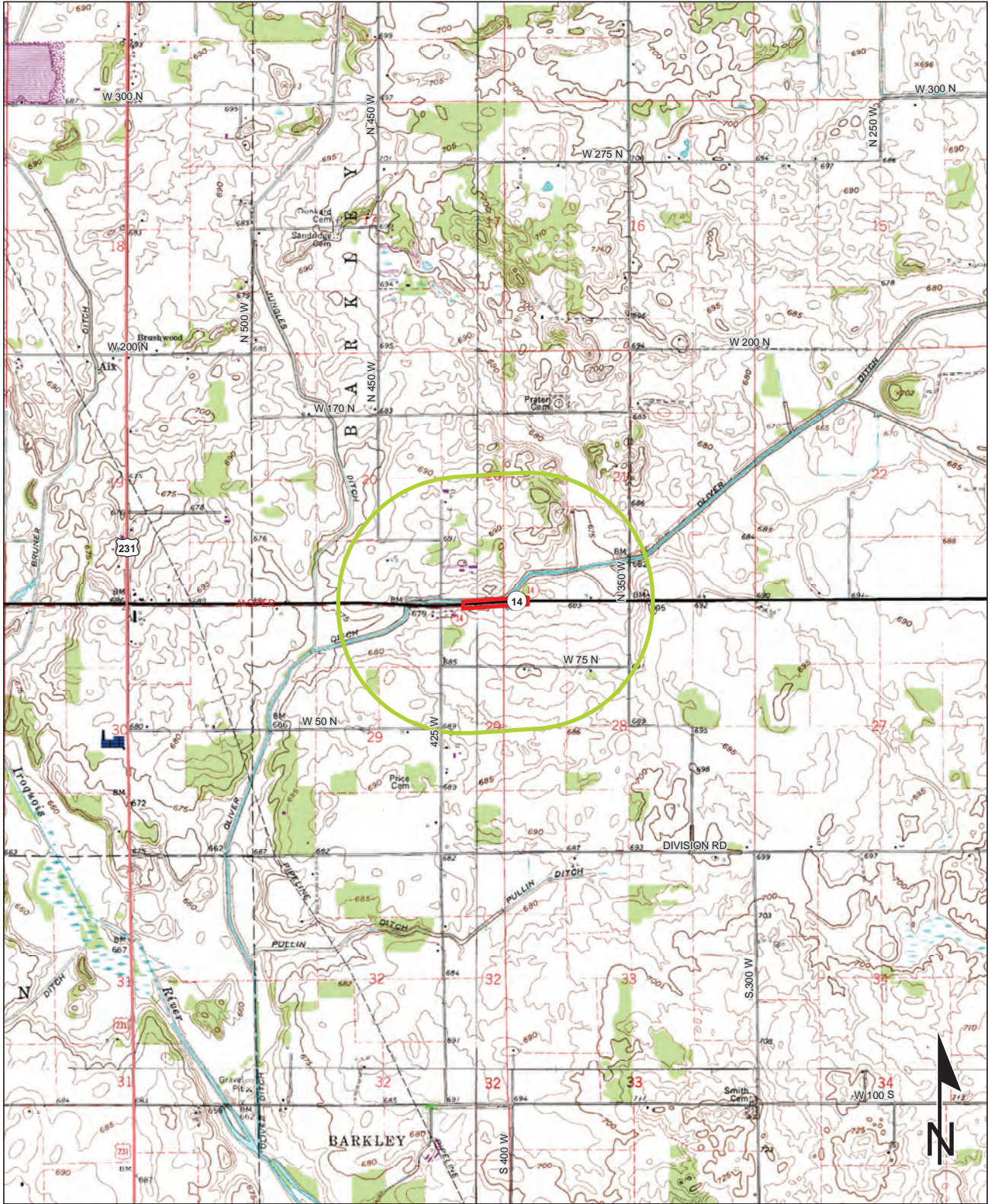
MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: N/A

**Supplemental Graphics:**

JASPER COUNTY ENDANGERED, THREATENED, AND RARE SPECIES LIST

Red Flag Investigation - Site Location  
 SR 14 – 1.50 mi E of US 231  
 Des. No. 1700123, Small Structure Replacement  
 Jasper County, Indiana



Sources: 0.5 0.25 0 0.5 Miles  
**Non Orthophotography**  
**Data** - Obtained from the State of Indiana Geographical Information Office Library  
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83  
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

**GIFFORD & PARR  
 QUADRANGLES  
 INDIANA  
 7.5 MINUTE SERIES**

Red Flag Investigation - Infrastructure  
 SR 14 – 1.50 mi E of US 231  
 Des. No. 1700123, Small Structure Replacement  
 Jasper County, Indiana



Sources: 0.15 0.075 0 0.15 Miles  
**Non Orthophotography**  
 Data - Obtained from the State of Indiana Geographical Information Office Library  
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
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	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Water Resources  
 SR 14 – 1.50 mi E of US 231  
 Des. No. 1700123, Small Structure Replacement  
 Jasper County, Indiana



**Sources:**  
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NWI - Point	Wetlands	Project Area
Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure - Historic	County Boundary	Local Road
Canal Route - Historic		

Indiana County Endangered, Threatened and Rare Species List

State ETR  
Federal ETR

County: Jasper

Species Name	Common Name	FED	STATE	GRANK	SRANK
<b>Crustacean: Malacostraca</b>					
Caecidotea beattyi	An Isopod			G3G4	S1
<b>Mollusk: Bivalvia (Mussels)</b>					
Plethobasus cyphus	Sheepnose	LE	SE	G3	S1
<b>Insect: Hymenoptera</b>					
Bombus affinis	Rusty-patched Bumble Bee	LE	SE	G1	S1
<b>Insect: Lepidoptera (Butterflies &amp; Moths)</b>					
Aethes patricia			SE	G3G4	S1
Atrytonopsis hianna	Dusted Skipper		ST	G4G5	S1S2
Callophrys irus	Frosted Elfin	C	SE	G3	S1
Cochylis ringsi			SE	G3G4	S1
Erynnis martialis	Mottled Duskywing		ST	G3	S2S3
Euchloe olympia	Olympia Marble		ST	G5	S2
Hesperia leonardus	Leonard's Skipper		SR	G5	S2
Hesperia metea	Cobweb Skipper		ST	G4	S2S3
Hesperia ottoe	Ottoe Skipper		SE	G3G4	S1
Hesperia sassacus	Indian Skipper		ST	G5	S2
Macrochilo absorptalis	A Moth		SR	G4G5	S2S3
Macrochilo hypocritalis	A Noctuid Moth		SR	G4	S2
Papaipema beeriana	Beer's Blazing Star Borer Moth		ST	G2G3	S1S3
Papaipema speciosissima	The Royal Fern Borer Moth		ST	G4	S2S3
Platyperigea multifera	Dune rustic			GNR	S1S2
Problema byssus	Bunchgrass Skipper		ST	G3G4	S2
Spartiniphaga includens	The Included Cordgrass Borer		ST	G4	S1
Speyeria idalia	Regal Fritillary	C	SE	G3	S1
<b>Fish</b>					
Moxostoma valenciennesi	Greater Redhorse		SE	G4	S2
<b>Amphibian</b>					
Ambystoma laterale	Blue-spotted Salamander		SSC	G5	S2
Cryptobranchus alleganiensis alleganiensis	Eastern Hellbender	C	SE	G3G4T3T4	S1
Lithobates blairi	Plains Leopard Frog		SE	G5	S1
Lithobates pipiens	Northern Leopard Frog		SSC	G5	S2
<b>Reptile</b>					
Clemmys guttata	Spotted Turtle	C	SE	G5	S2
Emydoidea blandingii	Blanding's Turtle	C	SE	G4	S2
Kinosternon subrubrum subrubrum	Eastern Mud Turtle		SE	G5T5	S2
Opheodrys vernalis	Smooth Green Snake		SE	G5	S2
Sistrurus catenatus catenatus	Eastern Massasauga	LT	SE	G3	S2
Terrapene ornata ornata	Ornate Box Turtle		SE	G5T5	S1

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Indiana County Endangered, Threatened and Rare Species List

County: Jasper

Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Thamnophis proximus proximus</i>	Western Ribbon Snake		SSC	G5T5	S3
<b>Bird</b>					
<i>Ammodramus henslowii</i>	Henslow's Sparrow		SE	G4	S3B
<i>Bartramia longicauda</i>	Upland Sandpiper		SE	G5	S3B
<i>Buteo lineatus</i>	Red-shouldered Hawk		SSC	G5	S3
<i>Certhia americana</i>	Brown Creeper			G5	S2B
<i>Circus hudsonius</i>	Northern Harrier		SE	G5	S2
<i>Cistothorus palustris</i>	Marsh Wren		SE	G5	S3B
<i>Cistothorus platensis</i>	Sedge Wren		SE	G5	S3B
<i>Falco peregrinus</i>	Peregrine Falcon		SSC	G4	S2B
<i>Grus canadensis</i>	Sandhill Crane		SSC	G5	S2B,S1N
<i>Haliaeetus leucocephalus</i>	Bald Eagle		SSC	G5	S2
<i>Ixobrychus exilis</i>	Least Bittern		SE	G5	S3B
<i>Lanius ludovicianus</i>	Loggerhead Shrike		SE	G4	S3B
<i>Mniotilta varia</i>	Black-and-white Warbler		SSC	G5	S1S2B
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron		SE	G5	S1B
<i>Pandion haliaetus</i>	Osprey		SE	G5	S1B
<i>Rallus limicola</i>	Virginia Rail		SE	G5	S3B
<i>Vermivora chrysoptera</i>	Golden-winged Warbler	C	SE	G4	S1B
<i>Wilsonia canadensis</i>	Canada Warbler			G5	S2B
<b>Mammal</b>					
<i>Geomys bursarius</i>	Plains Pocket Gopher		SSC	G5	S2
<i>Myotis sodalis</i>	Indiana Bat or Social Myotis	LE	SE	G2	S1
<i>Reithrodontomys megalotis</i>	Western Harvest Mouse			G5	S2
<i>Taxidea taxus</i>	American Badger		SSC	G5	S2
<b>Vascular Plant</b>					
<i>Agalinis auriculata</i>	Earleaf Foxglove		ST	G3	S1
<i>Androsace occidentalis</i>	Western Rockjasmine		ST	G5	S2
<i>Arabis glabra</i>	Tower-mustard		WL	G5	S2
<i>Aralia hispida</i>	Bristly Sarsaparilla		SE	G5	S1
<i>Aristida intermedia</i>	Slim-spike Three-awn Grass		SR	GNR	S2
<i>Armoracia aquatica</i>	Lake Cress		SE	G4?	S1
<i>Carex conoidea</i>	Prairie Gray Sedge		ST	G5	S1
<i>Carex straminea</i>	Straw Sedge		ST	G5	S2
<i>Cirsium hillii</i>	Hill's Thistle		SE	G3	S1
<i>Comptonia peregrina</i>	Sweet Fern		WL	G5	S3
<i>Corydalis sempervirens</i>	Pale Corydalis		ST	G5	S1
<i>Cyperus dentatus</i>	Toothed Sedge		SE	G4	S1
<i>Dichanthelium boreale</i>	Northern Witchgrass		SR	G5	S2
<i>Dichanthelium sabulorum var. thinium</i>	Hemlock Panic-grass		SR	G5T5	S2

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Indiana County Endangered, Threatened and Rare Species List

County: Jasper

Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Diervilla lonicera</i>	Northern Bush-honeysuckle		SR	G5	S2
<i>Drosera intermedia</i>	Spoon-leaved Sundew		SR	G5	S2
<i>Eleocharis melanocarpa</i>	Black-fruited Spike-rush		ST	G4	S2
<i>Eleocharis microcarpa</i>	Small-fruited Spike-rush		SE	G5	S1
<i>Eleocharis robbinsii</i>	Robbins Spikerush		SR	G4G5	S2
<i>Fimbristylis puberula</i>	Carolina Fimbry		SE	G5	S1
<i>Gentiana alba</i>	Yellow Gentian		SR	G4	S2
<i>Gentiana puberulenta</i>	Downy Gentian		ST	G4G5	S2
<i>Geranium bicknellii</i>	Bicknell Northern Crane's-bill		SE	G5	S1
<i>Hypericum adpressum</i>	Creeping St. John's-wort		SE	G3	S1
<i>Juncus pelocarpus</i>	Brown-fruited Rush		SE	G5	S2
<i>Liatris pycnostachya</i>	Cattail Gay-feather		ST	G5	S2
<i>Linum intercursum</i>	Sandplain Flax		SE	G4	S1
<i>Linum sulcatum</i>	Grooved Yellow Flax		SR	G5	S2
<i>Ludwigia sphaerocarpa</i>	Globe-fruited False-loosestrife		SE	G5	S1
<i>Lycopodiella inundata</i>	Northern Bog Clubmoss		SE	G5	S1
<i>Lycopodium hickeyi</i>	Hickey's Clubmoss		SR	G5	S2
<i>Lycopodium tristachyum</i>	Deep-root Clubmoss		SR	G5	S2
<i>Lycopus amplexans</i>	Sessile-leaved Bugleweed		SE	G5	S1
<i>Mikania scandens</i>	Climbing Hempweed		SE	G5	S1
<i>Monotropa hypopithys</i>	American Pinesap		WL	G5	S3
<i>Myriophyllum pinnatum</i>	Cutleaf Water-milfoil		SE	G5	S1
<i>Myriophyllum verticillatum</i>	Whorled Water-milfoil		SR	G5	S2
<i>Nelumbo lutea</i>	American Lotus		WL	G4	S3
<i>Panicum leibergii</i>	Leiberg's Witchgrass		ST	G4	S2
<i>Panicum verrucosum</i>	Warty Panic-grass		ST	G4	S2
<i>Perideridia americana</i>	Eastern Eulophus		SE	G4	S1
<i>Platanthera ciliaris</i>	Yellow-fringe Orchis		SE	G5	S1
<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchis		WL	G4?T4Q	S3
<i>Poa wolfii</i>	Wolf Bluegrass		SR	G4	S2
<i>Polygonum careyi</i>	Carey's Smartweed		ST	G4	S2
<i>Polygonum hydropiperoides</i> var. <i>opelousanum</i>	Northeastern Smartweed		ST	G5TNRQ	S2
<i>Polygonum hydropiperoides</i> var. <i>setaceum</i>	Swamp Smartweed		SE	G5	S1
<i>Polytaenia nuttallii</i>	Prairie Parsley		SE	G5	S1
<i>Potamogeton bicupulatus</i>	Snail-seed Pondweed		SE	G4	S1
<i>Potamogeton pulcher</i>	Spotted Pondweed		SE	G5	S1
<i>Potamogeton strictifolius</i>	Straight-leaf Pondweed		ST	G5	S1
<i>Prenanthes aspera</i>	Rough Rattlesnake-root		SR	G4?	S2
<i>Prunus pensylvanica</i>	Fire Cherry		SR	G5	S2
<i>Rhynchospora macrostachya</i>	Tall Beaked-rush		SR	G4	S2

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Indiana County Endangered, Threatened and Rare Species List

County: Jasper

Species Name	Common Name	FED	STATE	GRANK	SRANK
Rhynchospora recognita	Globe Beaked-rush		SE	G5?	S1
Rhynchospora scirpoides	Long-beaked Baldrush		ST	G4	S2
Sabatia campanulata	Slender Marsh Pink		SX	G5	SX
Schoenoplectus torreyi	Torrey's Bulrush		SE	G5?	S1
Scirpus purshianus	Weakstalk Bulrush		SR	G4G5	S2
Scleria muehlenbergii	Muehlenberg's Nutrush		SE	G5	S1
Scleria pauciflora	Fewflower Nutrush		WL	G5	S3
Scleria reticularis	Reticulated Nutrush		ST	G4	S2
Sisyrinchium montanum	Strict Blue-eyed-grass		SE	G5	S1
Symphotrichum sericeum	Western Silvery Aster		SR	G5	S2
Talinum rugospermum	Prairie Fame-flower		ST	G3G4	S2
Trichostema dichotomum	Forked Bluecurl		SR	G5	S2
Utricularia geminiscapa	Hidden-fruited Bladderwort		SE	G4G5	S1
Utricularia radiata	Small Swollen Bladderwort		SE	G4	S1
Utricularia subulata	Zigzag Bladderwort		ST	G5	S2
Viola pedatifida	Prairie Violet		ST	G5	S2
Viola primulifolia	Primrose-leaf Violet		ST	G5	S2
Xyris difformis	Carolina Yellow-eyed Grass		ST	G5	S2
<b>High Quality Natural Community</b>					
Forest - flatwoods dry	Dry Flatwoods		SG	G2?	S2
Prairie - mesic	Mesic Prairie		SG	G2	S2
Prairie - sand dry	Dry Sand Prairie		SG	G3	S2
Prairie - sand dry-mesic	Dry-mesic Sand Prairie		SG	G3	S3
Prairie - sand wet-mesic	Wet-mesic Sand Prairie		SG	G1?	S2
Rhynchospora capitellata - Rhexia virginica - Rhynchospora scirpoides - Schoenoplectus hallii	Inland Coastal Plain Marsh			G2?	SNR
<b>Herbaceous Vegetation</b>					
Savanna - sand dry	Dry Sand Savanna		SG	G2?	S2
Savanna - sand dry-mesic	Dry-mesic Sand Savanna		SG	G2?	S2S3
Wetland - flat muck	Muck Flat		SG	G2	S2
Wetland - flat sand	Sand Flat		SG	G2	S1
<b>Other Significant Feature</b>					
Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade	Water Fall and Cascade			GNR	SNR
Migratory Bird Concentration Area	Migratory Bird Concentration Site		SG	G3	SNR

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State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern;  
SX = state extirpated; SG = state significant; WL = watch list  
GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank  
SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

**Categorical Exclusion**  
**Appendix F**  
**Water Resources**

Waters of the U.S. Determination Report  
SR 14 New Small Structure  
1.50 mi E of US 231  
Jasper County, Indiana  
Des. No. 1700123



January 15, 2019

***Prepared By:***



3502 Woodview Trace, Suite 150  
Indianapolis, IN, 46268  
Ph: 317-222-3880

***Prepared For:***

INDOT – LaPorte District  
315 Boyd Blvd.  
LaPorte, Indiana 46350

**Waters of the U.S. Determination Report**  
**SR 14 New Small Structure**  
**1.50 mi E of US 231**  
**Jasper County, Indiana**  
**Des. No. 1700123**

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USGS Topographic Map (Zoomed).....	A3
Water Resources Map.....	A4
USFWS NWI Map.....	A5
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**Waters of the U.S. Determination Report**  
**SR 14 New Small Structure**  
**1.50 mi E of US 231**  
**Jasper County, Indiana**  
**Des. No. 1700123**

**Date of Waters Investigation**

October 3, 2018

**Location**

The project is located in central Jasper County, 1.50 mile east of US Highway 231 in Jasper County, Indiana (Attachment A1).

- Jasper County, Barkley Township, Indiana
- Sections 20, 21, 28, and 29, Township 30 North, Range 6 West
- Parr and Gifford 1:24,000 United States Geological Survey (USGS) Quadrangles (Attachment A2 and A3)

**Project Description**

The Indiana Department of Transportation- LaPorte District proposes to proceed with a new small structure project in central Jasper County, Indiana (Des. No. 1700123). The proposed project will involve the installation of a new small structure and the replacement of two existing small culverts that carry drainage underneath SR 14, 1.5 mile east of US 231. In addition to the new structures, scour protection and bank stabilization is anticipated to be installed. The maintenance of traffic will require a full closure of SR 14 and utilization of a detour.

**National Wetlands Inventory (NWI)**

Based on the U.S. Fish and Wildlife National Wetlands Inventory (NWI) data ([www.fws.gov/wetlands/Data/State-Downloads.html](http://www.fws.gov/wetlands/Data/State-Downloads.html)) there is one wetland mapped within the survey area (Attachment A5). Oliver Ditch is mapped as a riverine, lower perennial, unconsolidated bottom, semipermanently flooded, excavated (R2UBFx) resource according to the classifications defined by Cowardin *et al.* (1979). There are 15 additional NWI polygons within a 0.5 mile radius of the project area. These are as follows:

- One palustrine, emergent, persistent, temporary flooded, partially drained/ditched (PEM1Ad) wetland.
- Ten palustrine, emergent, persistent, temporary flooded, farmed (PEM1Af) wetland.
- Two palustrine, emergent, persistent, seasonally flooded (PEM1C) wetland.
- Two palustrine, unconsolidated bottom, intermittently exposed, excavated (PUBGx) wetland.

**Streams**

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) and the Parr and Gifford 1:24,000 scale USGS topographic map indicate that there is one stream feature, Oliver Ditch, within the investigation area (Attachments A2 and A3).



## Soils

The Soil Survey Geographic (SSURGO) database for Jasper County includes the following mapped soil series within the SR 14 New Small Structure project area (Attachments A8-A12).

- **Brems loamy sand, 1 to 3 percent slopes (BeB):** consists of very deep, moderately well drained soils formed in acid sandy outwash and glaciolacustrine deposits on outwash plains, nearshore zones, glacial deltas, and moraines. Brems loamy sand is not considered hydric with a hydric rating of 0.
- **Rensselaer fine sandy loam, till substratum (Rs):** consists of very deep, poorly drained or very poorly drained soils formed in loamy sediments on till plains, stream terraces, outwash terraces, outwash plains, glacial drainage channels, and lake plains. Rensselaer fine sandy loam is considered hydric and has a hydric rating of 100.
- **Whitaker fine sandy loam (Wt):** consists of very deep, somewhat poorly drained soils formed in stratified silty and loamy outwash on outwash plains, lake plains, till plains, valley trains, and stream terraces. Whitaker fine sandy loam is not considered hydric and has a hydric rating of 6.

## Hydrology

According to the Indiana Floodplain Information Portal, the project does not cross a 100-year floodplain or regulated floodway (<http://dnrmaps.dnr.in.gov/appsphp/fdms/>). The Base Flood Elevation (BFE) within the survey area is 669.4 feet. According to the USGS StreamStats Website (<https://water.usgs.gov/osw/streamstats/indiana.html>), Oliver Ditch has a watershed with a drainage area of 75.143 square miles (Attachment A7). The survey area is located within the Jungles Ditch- Oliver Ditch watershed with the 12-digit hydrologic unit code 071200020103. The FEMA FIRMETTE can be found in the Attachments on page A6.

## Field Reconnaissance

Lochmueller Group conducted a field review for streams and wetlands within the survey area for the SR 14 New Small Structure Project on October 3, 2018. One stream, Oliver Ditch, was identified and no wetland features were identified within the survey area. Identified features from the field reconnaissance can be seen in Attachments A14 to A33. No roadside ditches exhibiting ordinary high water mark (OHWM) characteristics were observed.

## Wetland Analysis

Wetland determinations were conducted in accordance with the *U.S. Army Corps of Engineers Wetland Delineation Manual (1987)* and the *Regional Supplement of the Corps of Engineers Wetland Delineation Manual: Midwest Region 2.0 (2010)*.

The October 3, 2018 field investigation for the SR 14 New Small Structure Project did not result in the evaluation of any wetlands. However, one data point was taken that was determined to be upland.

### Data Point 1

This data point was taken at a culvert outlet, south of SR 14. Dominant vegetation was limited to the herbaceous stratum and consisted of horsetail (*Equisetum arvense*, FAC) and rice cutgrass (*Leersia oryzoides*, OBL). One hundred percent of the dominant species at this data point were FAC or wetter; therefore, the data point passes the dominance test for hydrophytic vegetation. Soils within a pit excavated to a depth of 15 inches consisted of 5 inches of 10YR 4/3 (100%) sandy soils. From 5 to 12

---



inches, the matrix consisted of 10YR 3/2 (80%), 10YR 4/3 (9%), and 10YR 4/4 (9%) sandy soils with 2 percent concentrations of 10YR 5/8 in the matrix and along the pore linings. From 12 to 15 inches, the matrix consisted of N 5/ (99%) loamy/clayey soils with one percent concentrations of 10YR 5/6 in the matrix. Shovel refusal occurred at 15 inches due to gravel. This soil meets the Sandy Redox (S5) criteria for hydric soil indicators. The secondary hydrology indicator FAC-Neutral Test (D5) was observed. Data Point 1 failed to meet wetland hydrology indicators and therefore can be considered to be upland. The data form prepared for this data point is included as Attachments A34-A35.

**Table 1: Wetland Data Point Summary**

Data Point	Hydrophytic vegetation?	Hydric soils?	Hydrology Indicators?	Wetland
DP1	Yes	Yes	No	No

**Stream Analysis**

The October 3, 2018 field investigation for the SR 14 New Small Structure Project resulted in the evaluation of one jurisdictional stream, Oliver Ditch.

Oliver Ditch

Oliver Ditch is a stream feature that flows from northeast to west within the survey area. Approximately 766 feet of this feature was evaluated as part of this field investigation. This feature appears to be an excavated channel, conveying drainage from the road and surrounding agricultural fields. The surrounding riparian habitat is narrow and consists of very steep, vegetated slopes. The surrounding land use consists of the existing roadway and agricultural fields. Oliver Ditch is characterized by a very deep and wide channel. This feature has sand substrate with riffles and pools present. The OHWM was 23 feet and 8 inches wide by 2 feet and 2 inches deep at the time of the field investigation. This resource is a poor quality resource based on the substrate, flow regime, lack of sinuosity, and excavated nature. Oliver Ditch is likely jurisdictional due to connectivity to Jungles Ditch which connects to Iroquois River, a Traditionally Navigable Water (TNW).

**Table 2: Stream Summary Table**

Stream	Photos	Lat/Long	OHWM	USGS Blueline?	Substrate	Quality	Water of the U.S.?
Oliver Ditch	17-21, 25-26, 31	41.0273° -87.1242°	23' 8" wide x 2'2" deep	Yes	Sand	Poor	Yes

**Conclusions**

The October 3, 2018 field review for the SR 14 New Small Structure Project identified one stream feature, Oliver Ditch, within the investigation area. No wetland features were identified within the survey area. Oliver Ditch would be considered jurisdictional due to connectivity to the Iroquois River, a TNW.

Every effort should be taken to avoid and minimize the impacts to the water resources listed above. Disturbance of a wetland or stream could result in a mitigation requirement to secure the required



permits for the SR 14 New Small Structure Project. If construction exceeds the limits of the survey review area illustrated in this document, further field investigation will be needed. This report is this office’s best judgment of water resources that are likely to be under federal jurisdiction, based on the guidelines set forth by the USACE. The final determination of jurisdictional waters is ultimately the responsibility of the USACE.

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator’s training, experience and professional judgement in conformance with the 1987 *Corps of Engineers Wetlands Delineation Manual*, the appropriate regional supplement, the USACE *Jurisdictional Determination Form Instructional Guidebook*, and other appropriate agency guidelines.

**Preparers**

Lochmueller Group, Inc. Staff	Position	Contributing Effort
Ruth Hook, CPESC, CESSWI	Environmental Biologist	Field Data Collection Report Preparation
Samantha Beaupre	Environmental Biologist	Field Data Collection Report Preparation

**Signature of Preparer:**





## ATTACHMENTS





Sources: Jasper County, Indiana Aerial Imagery 2013, NWI (USFWS), Streams (NHD; USGS)

**LOCHMUELLER GROUP**

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**Water Resources Map**  
 Des. No. 1700123  
 Waters of the U.S. Report



County: Jasper  
 Township: Barkley  
 State: Indiana

New Small Structure Project  
 SR 14, 1.50 mile east of US 231  
 Created: 11/26/2018, SBeaure



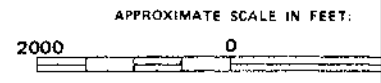
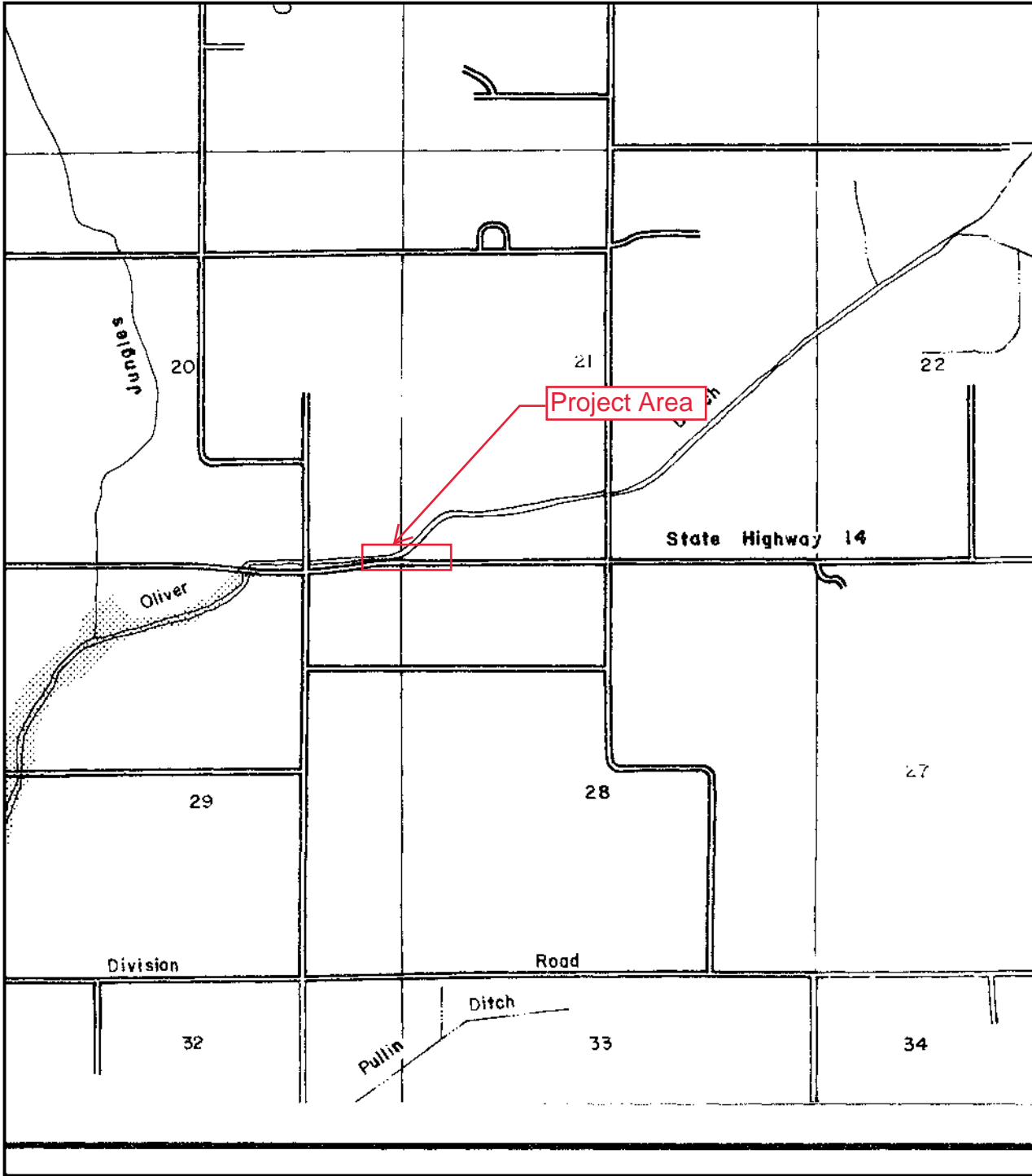
August 21, 2018

**Wetlands**

- |                                |                                   |          |
|--------------------------------|-----------------------------------|----------|
| Estuarine and Marine Deepwater | Freshwater Emergent Wetland       | Lake     |
| Estuarine and Marine Wetland   | Freshwater Forested/Shrub Wetland | Other    |
|                                | Freshwater Pond                   | Riverine |



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



**FLOOD HAZARD BOUNDARY MAP**

**JASPER COUNTY  
INDIANA  
UNINC. AREAS**

PAGE 3 OF 8  
(SEE MAP INDEX FOR PAGES NOT PRINTED)



**EFFECTIVE DATE:  
MAY 12, 1978**

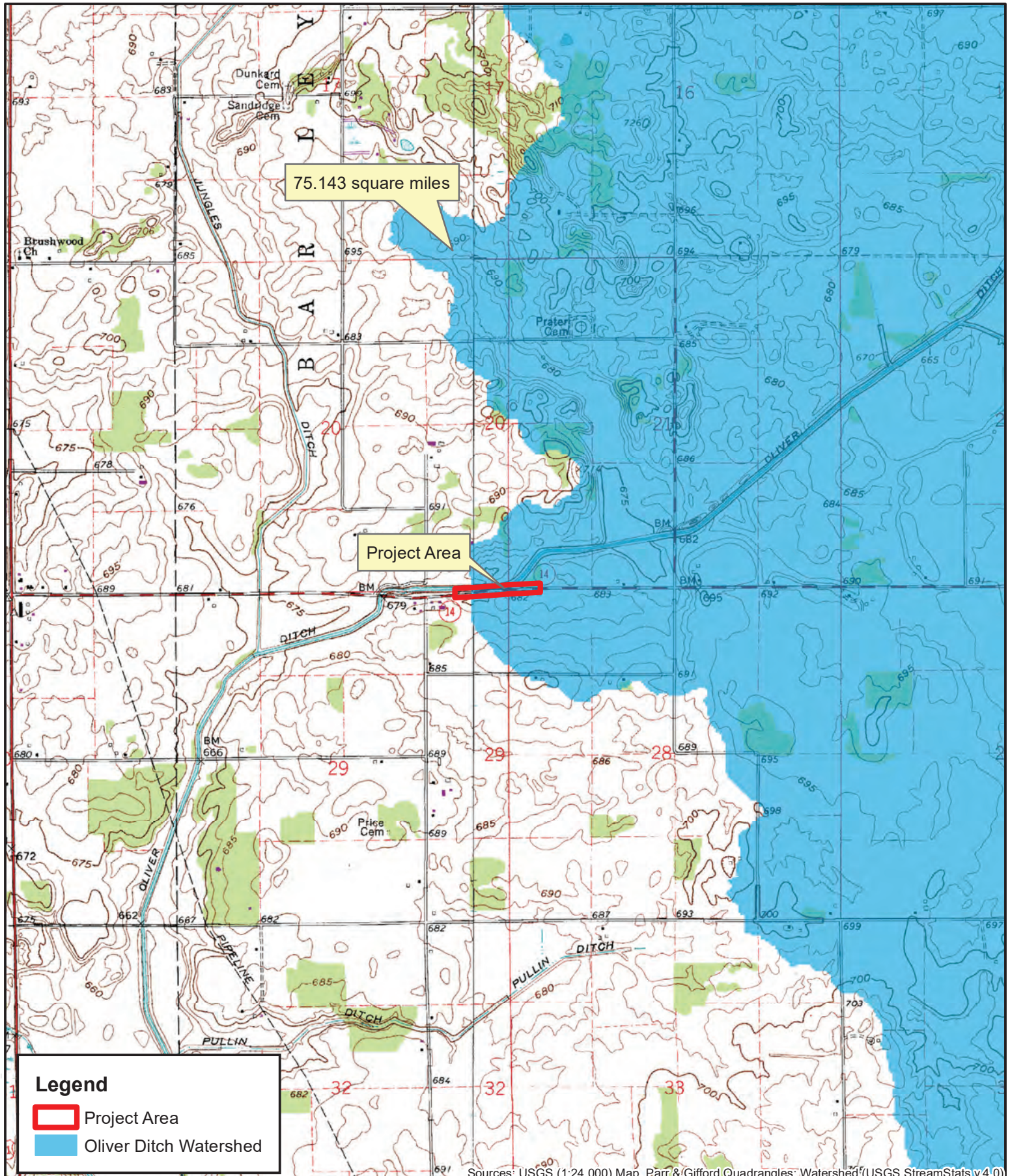
CONVERTED BY LETTER  
EFFECTIVE 7/1/94

**COMMUNITY—PANEL NUMBER  
180439 0003 A**



**U.S. DEPARTMENT OF HOUSING  
AND URBAN DEVELOPMENT**  
FEDERAL INSURANCE ADMINISTRATION

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)



75.143 square miles

Project Area

**Legend**

- Project Area
- Oliver Ditch Watershed

Sources: USGS (1:24,000) Map, Parr & Gifford Quadrangles; Watershed (USGS StreamStats v.4.0)

**LOCHMUELLER GROUP**

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 Fax: (317) 222-3881

**Streamstats Map**  
 Des. No. 1700123  
**Waters of the U.S. Report**

0 1,000 2,000  
 Feet

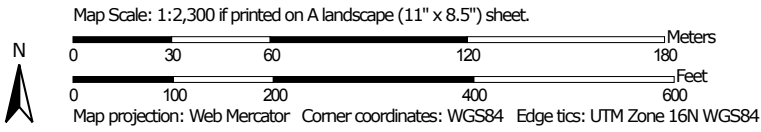
County: Jasper      Quad: Parr & Gifford  
 State: Indiana      Township: Barkley

SR 14 New Small Structure  
 1.50 mi E of US 231  
 Created: 11/16/2018, SBeaure

Soil Map—Jasper County, Indiana  
(Des. NO. 1700123 - SR 14 New Small Structure)




Soil Map may not be valid at this scale.





## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Jasper County, Indiana

Survey Area Data: Version 18, Oct 2, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 3, 2009—Dec 26, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BeB	Brems loamy sand, 1 to 3 percent slopes	2.4	52.4%
Rs	Rensselaer fine sandy loam, till substratum	2.2	46.8%
Wt	Whitaker fine sandy loam	0.0	0.8%
<b>Totals for Area of Interest</b>		<b>4.7</b>	<b>100.0%</b>



## Report—Hydric Soil List - All Components

Hydric Soil List - All Components—IN073-Jasper County, Indiana					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
BeB: Brems loamy sand, 1 to 3 percent slopes	Brems	80	Outwash plains	No	—
	Morocco	8	Outwash plains,till plains	No	—
	Osolo	6	Outwash plains,outwash terraces	No	—
	Oshtemo	3	Moraines,till plains	No	—
	Bronson	3	Outwash plains,moraines	No	—
Rs: Rensselaer fine sandy loam, till substratum	Rensselaer	100	Depressions on recessional moraines	Yes	2,3
Wt: Whitaker fine sandy loam	Whitaker	90	Outwash plains,recessional moraines	No	—
	Gilford	3	Depressions	Yes	2,3
	Rensselaer	3	Depressions	Yes	2,3

### Data Source Information

Soil Survey Area: Jasper County, Indiana  
Survey Area Data: Version 18, Oct 2, 2017

## Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BeB	Brems loamy sand, 1 to 3 percent slopes	0	2.4	52.4%
Rs	Rensselaer fine sandy loam, till substratum	100	2.2	46.8%
Wt	Whitaker fine sandy loam	6	0.0	0.8%
<b>Totals for Area of Interest</b>			<b>4.7</b>	<b>100.0%</b>

## WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: State Road 14 New Small Structure and Structure Replacements City/County: Jasper County Sampling Date: 10/3/2018  
 Applicant/Owner: Indiana Department of Transportation - LaPorte District State: IN Sampling Point: DP 1  
 Investigator(s): R. Hook/S. Beaubre Section, Township, Range: Section 28, Township 30 N, Range 6 W  
 Landform (hillside, terrace, etc.): roadside Local relief (concave, convex, none): concave  
 Slope (%): 0-1 Lat: 41.0270441 Long: -87.1229419 Datum: NAD83  
 Soil Map Unit Name: BeB NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>    </u> No <u>X</u>
---	---

Remarks:  
 The data point was taken in a low spot at the inlet to a culvert. The vegetation was a mixture of UP and WET species. Since the data point is drained by the culvert and the surrounding vegetation is dominated by UP species, this data point is not considered to be in a wetland.

### VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status																	
1.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>    2    </u> (A) Total Number of Dominant Species Across All Strata: <u>    2    </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
3.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
4.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
5.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
<u>    </u> = Total Cover																					
Sapling/Shrub Stratum	(Plot size: <u>    </u> )																				
1.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<b>Prevalence Index worksheet:</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: right;">Total % Cover of:</td> <td style="width: 50%; text-align: left;">Multiply by:</td> </tr> <tr> <td>OBL species <u>    40    </u></td> <td>x 1 = <u>    40    </u></td> </tr> <tr> <td>FACW species <u>    0    </u></td> <td>x 2 = <u>    0    </u></td> </tr> <tr> <td>FAC species <u>    47    </u></td> <td>x 3 = <u>   141    </u></td> </tr> <tr> <td>FACU species <u>    13    </u></td> <td>x 4 = <u>    52    </u></td> </tr> <tr> <td>UPL species <u>    0    </u></td> <td>x 5 = <u>    0    </u></td> </tr> <tr> <td>Column Totals: <u>   100   </u> (A)</td> <td><u>   233   </u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>    2.33    </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>    40    </u>	x 1 = <u>    40    </u>	FACW species <u>    0    </u>	x 2 = <u>    0    </u>	FAC species <u>    47    </u>	x 3 = <u>   141    </u>	FACU species <u>    13    </u>	x 4 = <u>    52    </u>	UPL species <u>    0    </u>	x 5 = <u>    0    </u>	Column Totals: <u>   100   </u> (A)	<u>   233   </u> (B)	Prevalence Index = B/A = <u>    2.33    </u>	
Total % Cover of:	Multiply by:																				
OBL species <u>    40    </u>	x 1 = <u>    40    </u>																				
FACW species <u>    0    </u>	x 2 = <u>    0    </u>																				
FAC species <u>    47    </u>	x 3 = <u>   141    </u>																				
FACU species <u>    13    </u>	x 4 = <u>    52    </u>																				
UPL species <u>    0    </u>	x 5 = <u>    0    </u>																				
Column Totals: <u>   100   </u> (A)	<u>   233   </u> (B)																				
Prevalence Index = B/A = <u>    2.33    </u>																					
2.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
3.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
4.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
5.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
<u>    </u> = Total Cover																					
Herb Stratum	(Plot size: <u>5 feet</u> )																				
1.	<u><i>Equisetum arvense</i></u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>    </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>    </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <u>    </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>    </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.	<u><i>Leersia oryzoides</i></u>	<u>40</u>	<u>Yes</u>	<u>OBL</u>																	
3.	<u><i>Cirsium arvense</i></u>	<u>10</u>	<u>No</u>	<u>FACU</u>																	
4.	<u><i>Setaria pumila</i></u>	<u>7</u>	<u>No</u>	<u>FAC</u>																	
5.	<u><i>Tradescantia ohiensis</i></u>	<u>3</u>	<u>No</u>	<u>FACU</u>																	
6.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
7.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
8.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
9.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
10.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
<u>100</u> = Total Cover																					
Woody Vine Stratum	(Plot size: <u>    </u> )																				
1.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>    </u>																
2.	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																	
<u>    </u> = Total Cover																					

Remarks: (Include photo numbers here or on a separate sheet.)

**SOIL**

Sampling Point: DP 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 4/3	100					Sandy	
5-12	10YR 3/2	80	10YR 5/8	2	C	PL/M	Sandy	Prominent redox concentrations
	10YR 4/3	9						
	10YR 4/4	9						
12-15	N 5/	99	10YR 5/6	1	C	M	Loamy/Clayey	Prominent redox concentrations

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input checked="" type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b> Type: <u>                    </u> gravel Depth (inches): <u>          15          </u>	<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

Remarks:  
Shovel refusal at 15 inches due to gravel.

**HYDROLOGY**

Wetland Hydrology Indicators:	Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u> Water Table Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u> Saturation Present?        Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>          </u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
The data point was taken at a culvert low spot where water does sit. It is artificially drained and does not qualify for geomorphic position.



DP1 Soil Profile



DP1 Soil Pit

**Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM**

**BACKGROUND INFORMATION**

**A. REPORT COMPLETION DATE FOR PJD:** November 13, 2018

**B. NAME AND ADDRESS OF PERSON REQUESTING PJD:** R. Hook, 3502 Woodview Trace, Indianapolis, IN 46268

**C. DISTRICT OFFICE, FILE NAME, AND NUMBER:**

**D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:**

The Indiana Department of Transportation- LaPorte District proposes to proceed with a new small structure project in central Jasper County, Indiana (Des. No. 1700123). The proposed project will involve the installation of a new small structure and the replacement of two existing small culverts that carry drainage underneath SR 14, 1.5 mile east of US 231. In addition to the new structures, scour protection and bank stabilization is anticipated to be installed. The maintenance of traffic will require a full closure of SR 14 and utilization of a detour.

**(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)**

State: **IN** County/parish/borough: **Jasper** City:

Center coordinates of site (lat/long in degree decimal format):

Lat.: **41.0273** Long.: **-87.1242**

Universal Transverse Mercator:

Name of nearest waterbody: **Oliver Ditch**

**E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):**

Office (Desk) Determination. Date:

Field Determination. Date(s):

**TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH “MAY BE” SUBJECT TO REGULATORY JURISDICTION.**

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource “may be” subject (i.e., Section 404 or Section 10/404)
Oliver Ditch	41.0273°	-87.1242°	766 feet (0.42 acre)	non-wetland	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring “pre-construction notification” (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant’s acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there “*may be*” waters of the U.S. and/or that there “*may be*” navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:



**SUPPORTING DATA. Data reviewed for PJD (check all that apply)**

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:  
Map: Aerial, water resources, NWI, topographic, StreamStats, soils.
- Data sheets prepared/submitted by or on behalf of the PJD requestor.
  - Office concurs with data sheets/delineation report.
  - Office does not concur with data sheets/delineation report. Rationale: \_\_\_\_\_.
- Data sheets prepared by the Corps: \_\_\_\_\_.
- Corps navigable waters' study: \_\_\_\_\_.
- U.S. Geological Survey Hydrologic Atlas: Hydrography\_HighRes\_FlowLine\_NHD\_USGS.shp.
  - USGS NHD data.
  - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: Parr & Gifford 1:24,000 Quadrangle.
- Natural Resources Conservation Service Soil Survey. Citation: NRCS web soil survey.
- National wetlands inventory map(s). Cite name: USFWS NWI wetland mapper.
- State/local wetland inventory map(s): \_\_\_\_\_.
- FEMA/FIRM maps: 180439 0003 A.
- 100-year Floodplain Elevation is: 669.4 feet (National Geodetic Vertical Datum of 1929)
- Photographs:  Aerial (Name & Date): Jasper County 2013  
or  Other (Name & Date): Field photos from 10/3/18
- Previous determination(s). File no. and date of response letter: \_\_\_\_\_.
- Other information (please specify): \_\_\_\_\_.

**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.**

\_\_\_\_\_  
Signature and date of  
Regulatory staff member  
completing PJD

Ruth Hook

Digitally signed by Ruth Hook  
Date: 2019.01.15 08:32:26 -05'00'

\_\_\_\_\_  
Signature and date of  
person requesting PJD  
(REQUIRED, unless obtaining  
the signature is impracticable)<sup>1</sup>

<sup>1</sup> Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.



# Indiana Floodplain Information Portal Report

## Point of Interest

### Approximate Address:

4050 State Rd 14  
RENSELAER, IN 47978

### Effective Flood Zone:

A

### Preliminary Flood Zone:

A

### Best Available Flood Zone:

X

### Approximate Flood Elevation:

669.4ft NAVD88



### Source:

Zone A Model Delineation












### Nearest Stream:

OLIVER DITCH

## Map Legend

-  Point of Interest
-  Nearest Point on Stream

## Best Available Flood Zone

-  FEMA Zone AE Floodway
-  DNR Detailed Floodway
-  DNR Approximate Floodway
-  FEMA Zone A
-  FEMA Zone AE
-  DNR Detailed Fringe
-  DNR Approximate Fringe
-  Additional Floodplain Area
-  FEMA Protected by Levee
-  FEMA Floodplain - Ponding (Depth)
-  FEMA Floodplain - Sheet Flow (Depth)

## Site Map with Best Available Flood Zone



Approximate scale 1:2,400

### Disclaimer

Generated on Monday May 18th 2020 at 03:34:48pm

The data shown on this map represents FEMA floodplain data enhanced with additional studies that have been reviewed and approved by the Division of Water. While this data has not yet been submitted to FEMA for inclusion in the Flood Insurance Rate Des. No. 1700123

**Categorical Exclusion**  
**Appendix G**  
**Public Involvement**



«Name»  
«Mailing\_Address»  
«Mailing\_City», «Mailing\_State» «Mailing\_zip»

Sample Notice of  
Survey Letter

**RE: INDOT Designation (DES) Number: 1700123  
Lochmueller Group Project Number: 217-0372-JHY  
State Road 14 1.50 mi E of US Highway 231 – New Small Structure  
Jasper County, Indiana**

**Notice of Entry for Survey or Investigation  
August 20, 2018**

Dear Property Owner,

Our information indicates that you own property near the above proposed transportation project. Lochmueller Group has been hired by the Indiana Department of Transportation – LaPorte District and will be performing a survey of the project area in the near future. It may be necessary for representatives from Lochmueller Group or sub-consultants for Lochmueller Group to come on your property to complete this work. This is permitted by law under Indiana Code (IC) § 8-23-7-26. Anyone performing this type of work has been instructed to identify him or herself to you, if you are available, before they enter your property. If you no longer own this property, or if it is currently occupied by someone else, please let us know the name of the new owner or occupant so we can contact them about the survey.

**Please read the attached notice to inform you of what the “Notice of Entry for Survey or Investigation” means. The survey work may include the identification and mapping of wetlands, archaeological investigations (which may involve the survey, testing, or excavation of identified archaeological sites), and various other environmental studies.** The information we obtain for such studies is necessary for the proper planning and design of this highway project. It is our sincere desire to cause you as little inconvenience as possible during this survey.

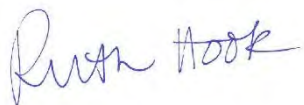
Lochmueller Group and its subcontractors will be conducting the field surveys for this project. If any problems do occur, please contact Ruth Hook via phone at 317.222.3880, e-mail at [RHook@lochgroup.com](mailto:RHook@lochgroup.com), or by mail at: 3502 Woodview Trace, Suite 150, Indianapolis, Indiana 46268. You may also contact Tim Hoffa at INDOT - LaPorte via phone at 219.325.7582, e-mail at [thoffa@indot.in.gov](mailto:thoffa@indot.in.gov), or by mail at: INDOT – LaPorte District, 215 E Boyd Blvd, La Porte, Indiana 46350.

At this stage we generally do not know what effect, if any, this project may eventually have on your property. If we determine later that your property is involved, we will contact you with additional information.

It is our sincere desire to cause you as little inconvenience as possible during our work and we thank you in advance for your cooperation.

**3502 Woodview Trace, Suite 150  
Indianapolis, Indiana 46268**  
PHONE: 317.222.3880 • TOLL FREE: 888.830.6977

Sincerely,

A handwritten signature in blue ink that reads "Ruth Hook". The signature is written in a cursive style with a large initial "R".

Ruth Hook  
Environmental Biologist  
**LOCHMUELLER GROUP**

Attachment: *INDOT's Notice of Entry for Survey or Investigation*



# INDIANA DEPARTMENT OF TRANSPORTATION

*Driving Indiana's Economic Growth*

100 North Senate Avenue  
Room N642  
Indianapolis, Indiana 46204-2216

**Michael R. Pence, Governor**  
**Brandye Hendrickson, Commissioner**

## **Indiana Department of Transportation Notice of Entry for Survey or Investigation Indiana Department of Transportation**

If you have received a “Notice of Entry for Survey or Investigation” from INDOT or an INDOT representative, you may be wondering what it means. In the early stages of a project’s development, INDOT must collect as much information as possible to ensure that sound decisions are made in designing the proposed project. Before entering onto private property to collect that data, INDOT is required to notify landowners that personnel will be in the area and may need to enter onto their property. Indiana Code, Title 8, Article 23, Chapter 7, Section 26 deals with the department’s authority to enter onto any property within Indiana.

Receipt of a Notice of Entry for Survey or Investigation does not necessarily mean that INDOT will be buying property from you. It doesn’t even necessarily mean that the project will involve your property at all. Since the Notice of Entry for Survey or Investigation is sent out in the very early stages and since we want to collect data within AND surrounding the project’s limits more landowners are contacted than will actually fall within the eventual project limits. It may also be that your property falls within the project limits but we will not need to purchase property from you to make improvements to the roadway. Another thing to keep in mind is that when you receive a Notice of Entry for Survey or Investigation, very few specifics have been worked out and actual construction of the project may be several years in the future.

Before INDOT begins a project that requires them to purchase property from landowners, they must first offer the opportunity for a public hearing. If you were on the list of people who received a Notice of Entry for Survey or Investigation, you should also receive a notice informing you of your opportunity to request a public hearing. These notices will also be published in your local newspaper so interested individuals who are not adjacent to the project will also have the opportunity to request a public hearing. If a public hearing is to be held, INDOT will publicize the date, location, and time. INDOT will present detailed project information at the public hearing, comments will be taken from the public in spoken and written form, and question and answer sessions will be offered. Based on the feedback INDOT receives from the public, a project can be modified and improved to better serve the public.

So, if you have received a “Notice of Entry for Survey or Investigation”, remember:

1. You do not need to take any action at this time. It is merely letting you know that people in orange/lime vests are going to be in your neighborhood.
2. The project is still in its very early planning stages.
3. You will be notified of your opportunity to comment on the project at a later date.

*www.in.gov/dot/*  
**An Equal Opportunity Employer**

**Categorical Exclusion**  
**Appendix H**  
**Air Quality**

Indiana Department of Transportation (INDOT)  
 State Preservation and Local Initiated Projects FY 2020 - 2024

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2020	2021	2022	2023	2024	
White County	42062 / 1802935	A 10	IR 5220	Bridge Deck Replacement	Lowes Road Bridge over Lake Shafer	LaPorte	.152	STBG	\$2,266,000.00	Local Funds	PE	\$0.00	\$62,600.00	\$62,600.00					
Comments:No MPO- Add PE FY20 Federal 250,400.00 and local \$62,600.00																			
White County	42062 / 1802935	M 04	IR 5220	Bridge Deck Replacement	Lowes Road Bridge over Lake Shafer	LaPorte	.152	STBG	\$2,237,100.00	Local Bridge Program	PE	-\$23,120.00	\$0.00	(\$23,120.00)					
										Local Funds	PE	\$0.00	-\$5,780.00	(\$5,780.00)					
Comments:No MPO-Decreasing PE funds in FY20 in the amount of \$23,120.00 federal and \$5,780.00 local.																			
Indiana Department of Transportation	42222 / 1901360	A 01	US 24	HMA Overlay, Preventive Maintenance	0.68mi E of US 421/SR 43 to 2.65mi W of SR 39 (CR 300E)	LaPorte	2.61	NHPP	\$1,470,894.00	Road Consulting	PE	\$207,744.00	\$51,936.00	\$183,940.00		\$75,740.00			
										Road Construction	CN	\$968,971.20	\$242,242.80		\$10,000.00	\$1,201,214.00			
										Bridge Consulting	PE	\$105,700.00	\$26,425.00	\$132,125.00					
										Bridge Construction	CN	\$140,546.40	\$35,136.60			\$175,683.00			
Comments:Please amend all phases into the STIP. No MPO																			
Indiana Department of Transportation	42245 / 1700103	A 01	US 421	Bridge Replacement, Concrete	Over Hoagland Ditch, 3.50mi S of SR 16	LaPorte	0	NHPP	\$1,261,110.00	Bridge ROW	RW	\$200,000.00	\$50,000.00		\$250,000.00				
										Bridge Construction	CN	\$1,911,953.60	\$477,988.40		\$95,000.00	\$2,294,942.00			
Comments:Please amend all phases into the STIP. No MPO.																			
Indiana Department of Transportation	42254 / 1900358	A 04	SR 18	Pavement Replacement	from 0.25 mi W to 0.25 mi E of I-65	Crawfordsville	.5	STBG	\$5,088,897.00	Road Consulting	PE	\$531,015.20	\$132,753.80	\$663,769.00					
										Road Construction	CN	\$3,540,102.40	\$885,025.60						\$4,425,128.00
Comments:PE phase for \$600,000 FY20, CN phase for \$13,247,514, No MPO																			
Indiana Department of Transportation	42449 / 1900034	A 15	SR 16	Replace Superstructure	SR 16 at Big Monon Ditch, 1.17 mi W of SR 39	LaPorte	0	STBG	\$1,405,696.00	Bridge Consulting	PE	\$216,000.00	\$54,000.00		\$170,000.00				\$100,000.00
										Bridge Construction	CN	\$908,556.80	\$227,139.20				\$15,000.00		\$1,120,696.00
Comments:No MPO. Amend FY21 PE \$170,000 and FY24 PE/CE \$100,000 and FY23 CN \$15,000 and FY 24 CN \$1,120,696. FY24 phase is for illustrative purpose only.																			
Indiana Department of Transportation	42601 / 1902678	A 11	I 65	Other Type Project (Miscellaneous)	From CR-100 W to US-24 interchange I-65	Crawfordsville	17.86	NHPP	\$1,145,388.00	Safety Construction	CN	\$1,030,849.20	\$114,538.80		\$1,145,388.00				
Comments:CN phase for \$1,145,388 FY21, No MPO																			

**White County Total**

Federal: \$36,088,184.60      Match :\$8,512,951.27      2020: \$10,076,065.00      2021: \$18,306,362.87      2022: \$5,072,044.00      2023: \$3,547,840.00      2024: \$7,598,824.00

\* Includes CN and RW costs for all projects within this contract.



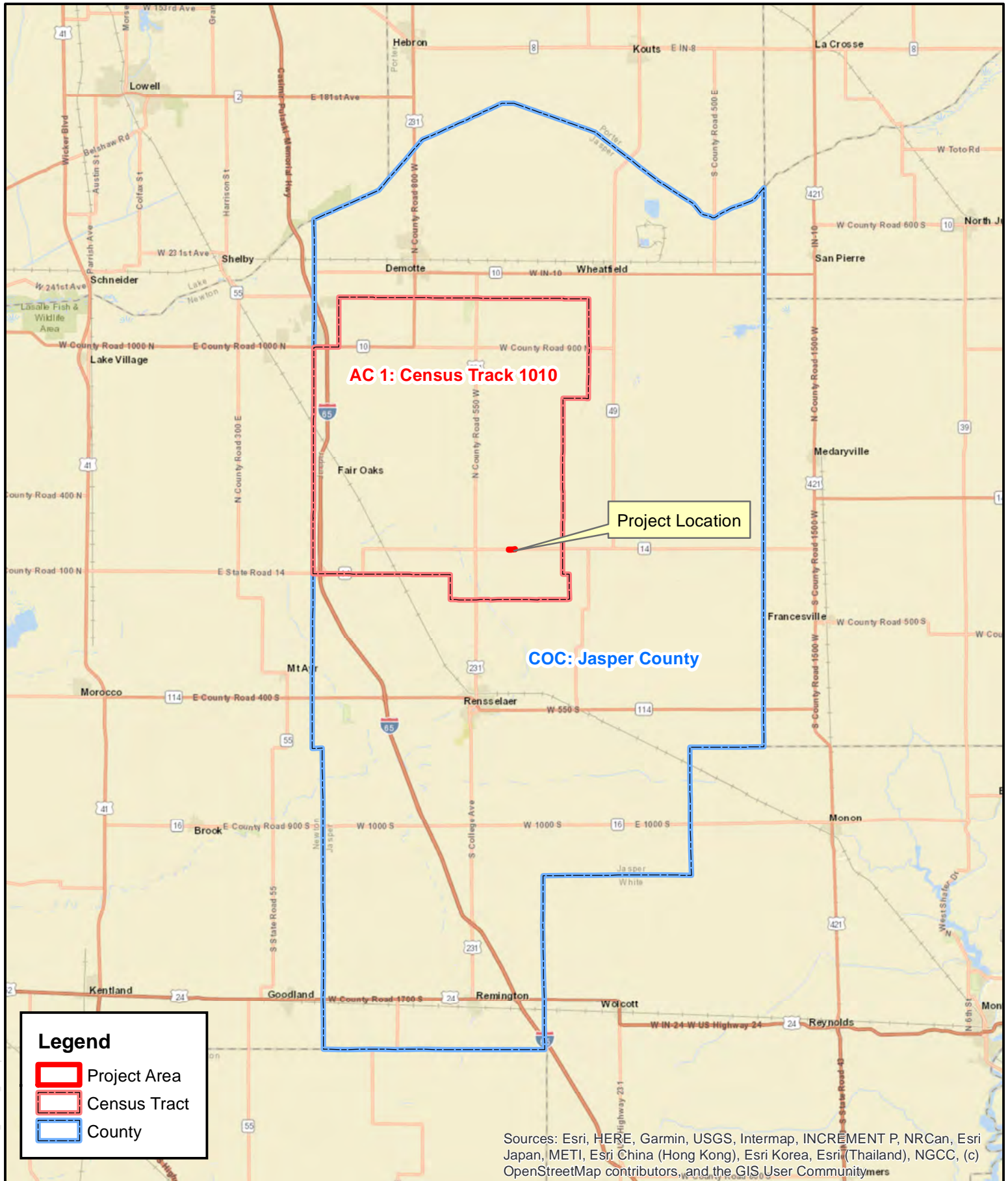
Indiana Department of Transportation (INDOT)  
 State Preservation and Local Initiated Projects FY 2018 - 2021

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2018	2019	2020	2021
Indiana Department of Transportation	40115 / 1700382	Init.	I 65	Small Structure Pipe Lining	1.15 mi S of SR 16	LaPorte	0	NHPP		Bridge Consulting	PE	\$40,140.00	\$4,460.00	\$44,600.00			
Indiana Department of Transportation	40315 / 1172330	Init.	SR 14	Br Repl, Pres.Conc.I-Beam(Simple Span)	Bridge over Zimmer Ditch, 1.44 mi E of I-65	LaPorte	0	STP		Bridge Construction	CN	\$191,838.40	\$47,959.60	\$239,798.00			
Indiana Department of Transportation	40315 / 1172330	M 01	SR 14	Br Repl, Pres.Conc.I-Beam(Simple Span)	Bridge over Zimmer Ditch, 1.44 mi E of I-65	LaPorte	0	STP	\$239,798.00	Bridge Construction	CN	\$0.00	\$0.00	(\$239,798.00)	\$239,798.00		
Comments:Please modify CN phase from FY18 to FY19. No MPO.																	
Indiana Department of Transportation	40315 / 1701064	A 04	SR 10	Repair Or Replace Joints	Over Shatzley Ditch, 1.15mi E of US 231	LaPorte	0	STP	\$70,861.00	Bridge Construction	CN	\$56,688.80	\$14,172.20		\$70,861.00		
										Bridge Consulting	PE	\$4,320.00	\$1,080.00	\$5,400.00			
Comments:Amend FY18 PE and FY19 CN phases into the current STIP. No MPO																	
Indiana Department of Transportation	40315 / 1701075	A 04	SR 114	Bridge Thin Deck Overlay	Over the Iroquois River, 1.26mi E of US 231	LaPorte	0	STP	\$174,585.00	Bridge Consulting	PE	\$10,720.00	\$2,680.00	\$13,400.00			
										Bridge Construction	CN	\$139,668.00	\$34,917.00		\$174,585.00		
Comments:Amend FY18 PE and FY19 CN phases into the current STIP. No MPO																	
Indiana Department of Transportation	40608 / 1700044	A 04	US 231	Small Structure Pipe Lining	2.34mi N of SR 14	LaPorte	0	NHPP	\$100,431.00	Bridge Construction	PE	\$12,000.00	\$3,000.00				\$15,000.00
										Bridge ROW	RW	\$40,000.00	\$10,000.00				\$50,000.00
										Bridge Consulting	PE	\$22,568.80	\$5,642.20		\$28,211.00		
Comments:Amend FY19 PE, FY21 UT/PE and FY21 ROW phases into the current STIP. No MPO.																	
Indiana Department of Transportation	40608 / 1700046	A 04	US 231	Small Structure Pipe Lining	0.87mi N of SR 110	LaPorte	0	NHPP	\$131,704.00	Bridge Construction	PE	\$12,000.00	\$3,000.00				\$15,000.00
										Bridge Consulting	PE	\$35,100.00	\$8,775.00		\$43,875.00		
										Bridge ROW	RW	\$40,000.00	\$10,000.00				\$50,000.00
Comments:Amend FY19 PE, FY21 UT/PE and FY21 ROW phases into the current STIP. No MPO.																	
Indiana Department of Transportation	40608 / 1700123	A 04	SR 14	Small Structure - New	1.50mi E of US 231	LaPorte	0	STP	\$149,482.00	Bridge Consulting	PE	\$19,746.40	\$4,936.60		\$24,683.00		
										Bridge Construction	PE	\$12,000.00	\$3,000.00				\$15,000.00
										Bridge ROW	RW	\$40,000.00	\$10,000.00				\$50,000.00
Comments:Amend FY19 PE, FY21 UT/PE and FY21 ROW phases into the current STIP. No MPO.																	

\*Estimated Costs left to Complete Project column is for costs that may extend beyond the four years of a STIP. This column is not fiscally constrained and is for information purposes.

**Categorical Exclusion**  
**Appendix I**  
**Environmental Justice**  
**Analysis**

	<b>COC</b> Jasper County, Indiana	<b>AC 1</b> Census Tract 1010
<b>LOW-INCOME POPULATION</b>		
<b>Total Population for Whom Poverty Status is Determined</b>	32,410	5,676
<b>Total Population Below Poverty Level</b>	2,867	292
<b>Percent Low-Income</b>	8.8%	5.1%
<b>125 Percent of COC</b>	11.1%	
<b>AC Percent Low-Income Greater Than 125 Percent of COC?</b>		No
<b>AC Percent Low-Income Greater Than 50 Percent?</b>		No
<b>Population of EJ Concern?</b>		No
<b>MINORITY POPULATION</b>		
<b>Total Population</b>	33,449	5,736
<b>Minority Population</b>	2,796	110
<b>Percent Minority</b>	8.4%	1.9%
<b>125 Percent of COC</b>	10.4%	
<b>AC Percent Minority Greater Than 125 Percent of COC?</b>		No
<b>AC Percent Minority Greater Than 50 Percent?</b>		No
<b>Population of EJ Concern?</b>		No



**AC 1: Census Tract 1010**

Project Location

**COC: Jasper County**

**Legend**

- Project Area
- Census Tract
- County

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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**EJ Analysis Map**  
 Des. No. 1700123

0      3      6  
 Miles

County: Jasper  
 Township: Barkley  
 State: Indiana

SR 14 Small Structure Project  
 SR 14, 1.50 miles east of US 231  
 Created: 5/1/2020, C. Kunkel

Note: This is a modified view of the original table produced by the U.S. Census Bureau.

Note: This download or printed version may have missing information from the original table.

## POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

**Survey/Program:**

American Community Survey

**Universe:**

Population for whom poverty status is determined

**Year:**

2018

**Estimates:**

5-Year

**Table ID:**

B17001

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Source: U.S. Census Bureau, 2014-2018 American Community Survey 5-Year Estimates

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation ). The effect of nonsampling error is not represented in these tables.

While the 2014-2018 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

**Explanation of Symbols:**

An "\*\*\*" entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

An "-" entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution, or the margin of error associated with a median was larger than the median itself.

An "-" following a median estimate means the median falls in the lowest interval of an open-ended distribution.

An "+" following a median estimate means the median falls in the upper interval of an open-ended distribution.

An "\*\*\*\*" entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

An "\*\*\*\*\*" entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

An "N" entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.

An "(X)" means that the estimate is not applicable or not available.

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

	Jasper County, Indiana	Census Tract 1010, Jasper County, Indiana	
	Estimate	Estimate	
∨ Total:	32,410		5,676
∨ Income in the past 12 months below poverty level:	2,867		292
∨ Male:	1,195		74
Under 5 years	83		0

5 years	2	0
6 to 11 years	234	37
12 to 14 years	59	0
15 years	25	0
16 and 17 years	61	0
18 to 24 years	120	7
25 to 34 years	101	0
35 to 44 years	83	2
45 to 54 years	206	0
55 to 64 years	92	0
65 to 74 years	61	8
75 years and over	68	20
▼ Female:	1,672	218
Under 5 years	49	0
5 years	0	0
6 to 11 years	180	0
12 to 14 years	33	0
15 years	52	0
16 and 17 years	88	63
18 to 24 years	186	36
25 to 34 years	316	0
35 to 44 years	181	9
45 to 54 years	141	51
55 to 64 years	321	39
65 to 74 years	36	9
75 years and over	89	11
▼ Income in the past 12 months at or above poverty level:	29,543	5,384
▼ Male:	14,942	2,842
Under 5 years	958	165
5 years	172	57
6 to 11 years	1,147	173
12 to 14 years	541	146
15 years	171	0
16 and 17 years	506	49
18 to 24 years	1,244	326
25 to 34 years	1,681	238
35 to 44 years	1,979	402

Note: This is a modified view of the original table produced by the U.S. Census Bureau.

Note: This download or printed version may have missing information from the original table.

## HISPANIC OR LATINO ORIGIN BY RACE

**Survey/Program:**

American Community Survey

**Universe:**

Total population

**Year:**

2018

**Estimates:**

5-Year

**Table ID:**

B03002

Source: U.S. Census Bureau, 2018 American Community Survey 1-Year Estimates

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation ). The effect of nonsampling error is not represented in these tables.

While the 2018 American Community Survey (ACS) data generally reflect the July 2015 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical areas, in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineations due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

**Explanation of Symbols:**

An "\*\*\*" entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

An "-" entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution, or the margin of error associated with a median was larger than the median itself.

An "-" following a median estimate means the median falls in the lowest interval of an open-ended distribution.

An "+" following a median estimate means the median falls in the upper interval of an open-ended distribution.

An "\*\*\*\*" entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

An "\*\*\*\*\*" entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

An "N" entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.

An "(X)" means that the estimate is not applicable or not available.

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

	Jasper County, Indiana	Census Tract 1010, Jasper County, Indiana
	Estimate	Estimate
▼ Total:	33,449	5,736
▼ Not Hispanic or Latino:	31,450	5,680
White alone	30,653	5,626
Black or African American alone	254	19

American Indian and Alaska Native alone	0	0
Asian alone	139	17
Native Hawaiian and Other Pacific Islander alone	0	0
Some other race alone	0	0
✓ Two or more races:	404	18
Two races including Some other race	8	0
Two races excluding Some other race, and three or more races	396	18
✓ Hispanic or Latino:	1,999	56
White alone	894	43
Black or African American alone	0	0
American Indian and Alaska Native alone	30	0
Asian alone	0	0
Native Hawaiian and Other Pacific Islander alone	0	0
Some other race alone	741	13
✓ Two or more races:	334	0
Two races including Some other race	166	0
Two races excluding Some other race, and three or more races	168	0



**Categorical Exclusion**

# **Appendix J**

**Other Information**

Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated December 2019)

ProjectNumber	SubProjectCode	County	Property
1800268	1800268	Jasper	Brook Side Park (LaRue Pool) Rensselaer Municipal Park
1800355	1800355	Jasper	Spencer Park
1800385	1800385	Jasper	Spencer Park
1800438	1800438	Jasper	Remington Town Park
1800603	1800603	Jasper	Remington Community Park

Please note, some of the property names are cut off on the ends due to character limits

Also, park names may have changed and is not reflected on the list.

\*Various - this may include multiple sites in multiple counties and should always be included in your searches by county.