

Categorical Exclusion

Appendix E

**Red Flag Investigation
& Hazardous Materials**



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-ES
Indianapolis, Indiana 46204

PHONE: (855) 463-6848
(855) INDOT4U

Eric Holcomb, Governor
Michael Smith, Commissioner

Date: October 17, 2022

To: Site Assessment & Management (SAM)
Environmental Policy Office - Environmental Services Division (ESD)
Indiana Department of Transportation (INDOT)
100 N Senate Avenue, Room N758-ES
Indianapolis, IN 46204

From: Payton Parke
Lochmueller Group, Inc.
6200 Vogel Rd
Evansville, IN 47715
pparke@lochgroup.com

Re: RED FLAG INVESTIGATION
DES 1701050, State Project
Small Structure Replacement Project
State Route (SR) 58, 9.23 Miles East of SR 37
Lawrence County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The proposed small structure replacement project on SR 58 (Des 1701050) is located 9.23 miles east of SR 37 in Lawrence County, IN. The proposed work is to replace the existing 128-inch by 83-inch Corrugated Metal Pipe Arch (CMPA) culvert (CV 058-047-86.77) with a 12-foot by 6-foot Reinforced Concrete Box (RCB) culvert with wingwalls and headwalls and a 1-foot sump. Approach work includes full depth replacement of SR 58.

Bridge Work Included in Project: Yes No Structure #(s) _____

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).

Culvert Work Included in Project: Yes No Structure #(s) CV 058-047-86.77

Proposed right of way: Temporary # Acres _____ Permanent # Acres 1.4 , Not Applicable

Type and proposed depth of excavation: Excavation will extend approximately 3 feet below the existing flowline for the 90-foot length of the proposed culvert. There will also be an excavation depth of approximately 4 feet below the flowline for the proposed wingwall footings.

Maintenance of traffic (MOT): The MOT for this project is anticipated to be a road closure with an official detour utilizing SR 37, US 50, and SR 446.

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

Infrastructure			
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 ¹	N/A	Pipelines	N/A
Cemeteries	N/A	Railroads	1
Hospitals	N/A	Trails	N/A
Schools	N/A	Managed Lands	N/A

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

Explanation:

Railroads: One (1) railroad segment is located within the 0.5 mile search radius. The unknown, abandoned railroad segment crosses the project area; however, upon further inspection, it appears the railroad line has been removed and is no longer present. No impact is expected.

WATER RESOURCES TABLE AND SUMMARY

Water Resources			
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	6	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	21
Canal Structures – Historic	N/A	Lakes	6*
NPS NRI Listed	N/A	Floodplain - DFIRM	1
NWI-Lines	14	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	9	Sinkhole Areas	N/A
Rivers and Streams	17	Sinking-Stream Basins	N/A

If unmapped water features are identified that might impact the project area, direct coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Explanation:

NWI – Points: Six (6) NWI – Points are located within the 0.5 mile search radius. The nearest NWI – Point is located 0.16 mile northeast of the project area. No impact is expected.

NWI – Lines: Fourteen (14) NWI-Line segments are located within the 0.5 mile search radius. The nearest NWI – Line segment is located adjacent to the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway permitting will occur.

IDEM 303d Listed Streams and Lakes: Nine (9) 303d Listed Streams are located within the 0.5 mile search radius. Leatherwood Creek and the Unnamed Tributary (UNT) to Leatherwood Creek are located within the project area. Leatherwood Creek and UNT to Leatherwood Creek are listed as 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 handwashing, and limit personal exposure.

Rivers and Streams: Seventeen (17) stream segments are located within the 0.5 mile search radius. Three (3) stream segments, associated with Leatherwood Creek and UNT to Leatherwood Creek, are located within the project area. A Waters of the US Report is recommended based on mapped features and coordination with INDOT ESD Ecology and Waterway permitting will occur.

NWI – Wetlands: Twenty-one (21) wetlands are located within the 0.5 mile search radius. The nearest wetland is located adjacent to the project area. A Waters of the US Report is recommended based on mapped features and coordination with INDOT ESD Ecology and Waterway permitting will occur.

Lakes*: Six (6) lakes, five (5) mapped and one (1) unmapped lake as seen on aerial photography, are located within the 0.5 mile search radius. The nearest mapped lake is located 0.13 mile west of the project area. No impact is expected.

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

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration			
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	5	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation:

Petroleum Wells: Five (5) petroleum wells are located within the 0.5 mile search radius. The nearest petroleum well is located 0.03 mile southeast of the project area. No impact is expected.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns			
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

Unless otherwise noted, site specific details presented in this section were obtained from documents reviewed on the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC).

Explanation:

No hazardous material concern resources were identified within the 0.5 mile search radius.

ECOLOGICAL INFORMATION SUMMARY

The Lawrence County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is provided at (https://www.in.gov/dnr/nature-preserves/files/np_lawrence.pdf). A preliminary review of the Indiana Natural Heritage Database by INDOT ESD did not indicate the presence of ETR species within the 0.5 mile search radius. Coordination with USFWS and 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 mature woodlands and scattered residences. The March 9, 2021 inspection report for Culvert CV 058-047-86.77 states that no evidence of bats was seen or heard in the culvert. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

RECOMMENDATIONS SECTION

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

INFRASTRUCTURE: N/A

WATER RESOURCES:

IDEM 303d Listed Streams and Lakes (Impaired): Leatherwood Creek and UNT to Leatherwood Creek are located within the project area and are listed as 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.

A Waters of the US Report is recommended based on the presence of mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur for the following features:

- One (1) NWI-Line segment is adjacent to the project area.
- Three (3) stream segments, associated with Leatherwood Creek and UNT to Leatherwood Creek, are located within the project area.
- One (1) NWI-Wetland is adjacent to the project area.
- The project area is located within a floodplain (coordination only).

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

ECOLOGICAL INFORMATION: Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

INDOT ESD concurrence: Darlane Davis Digitally signed by Darlane Davis
Date: 2022.10.18 11:41:29 -04'00' (Signature)

Prepared by:
Payton Parke
Environmental Specialist I
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

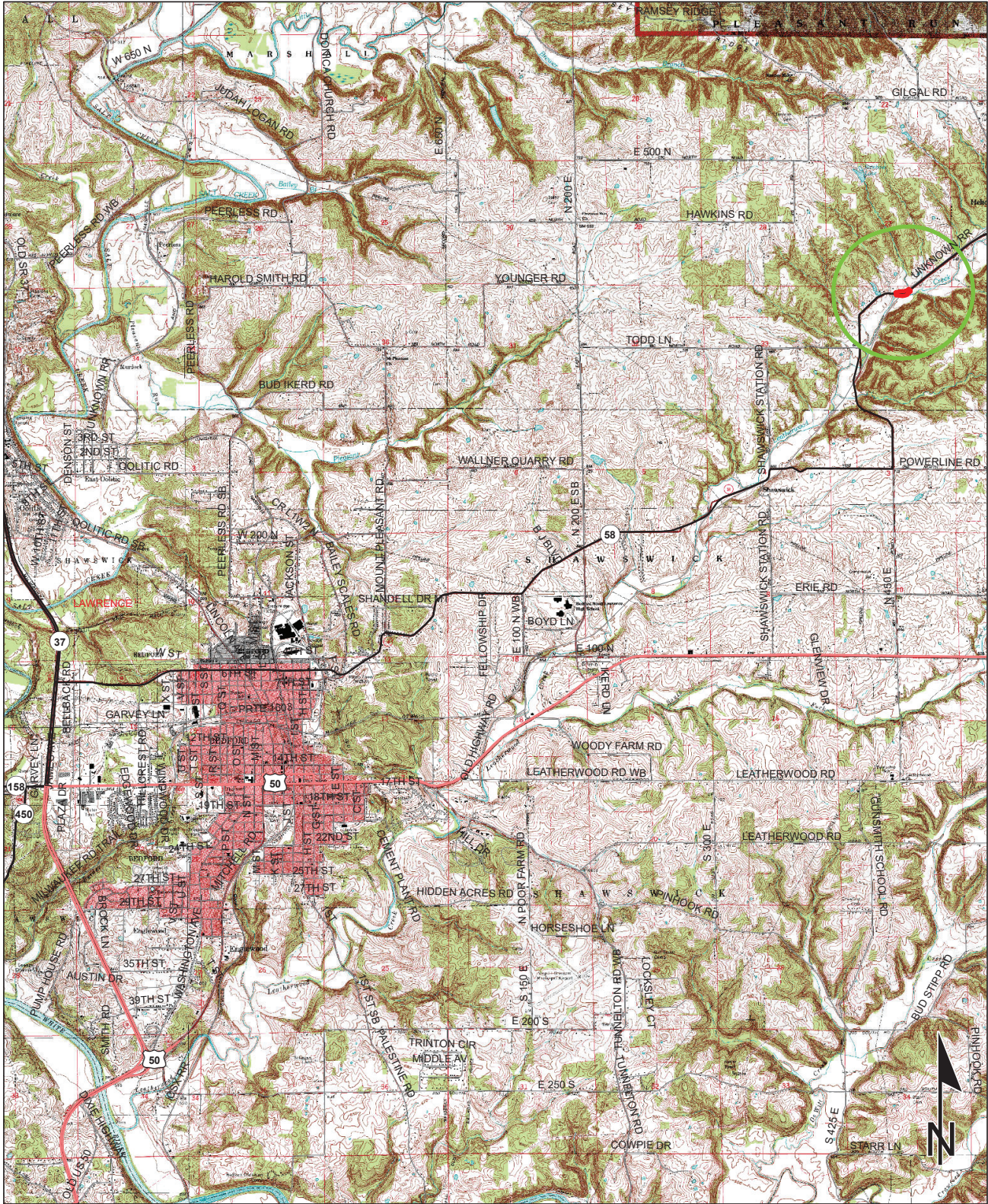
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: N/A

Red Flag Investigation - Site Location
 SR 58, 9.23 Miles East of SR 37
 Des. No. 1701050, Small Structure Replacement Project
 Lawrence County, Indiana



Sources: **Non Orthophotography** 1 0.5 0 1 Miles
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (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.

**BARTLETTSVILLE
 QUADRANGLE
 INDIANA
 7.5 MINUTE SERIES**

Red Flag Investigation - Infrastructure
 SR 58, 9.23 Miles East of SR 37
 Des. No. 1701050, Small Structure Replacement Project
 Lawrence County, Indiana



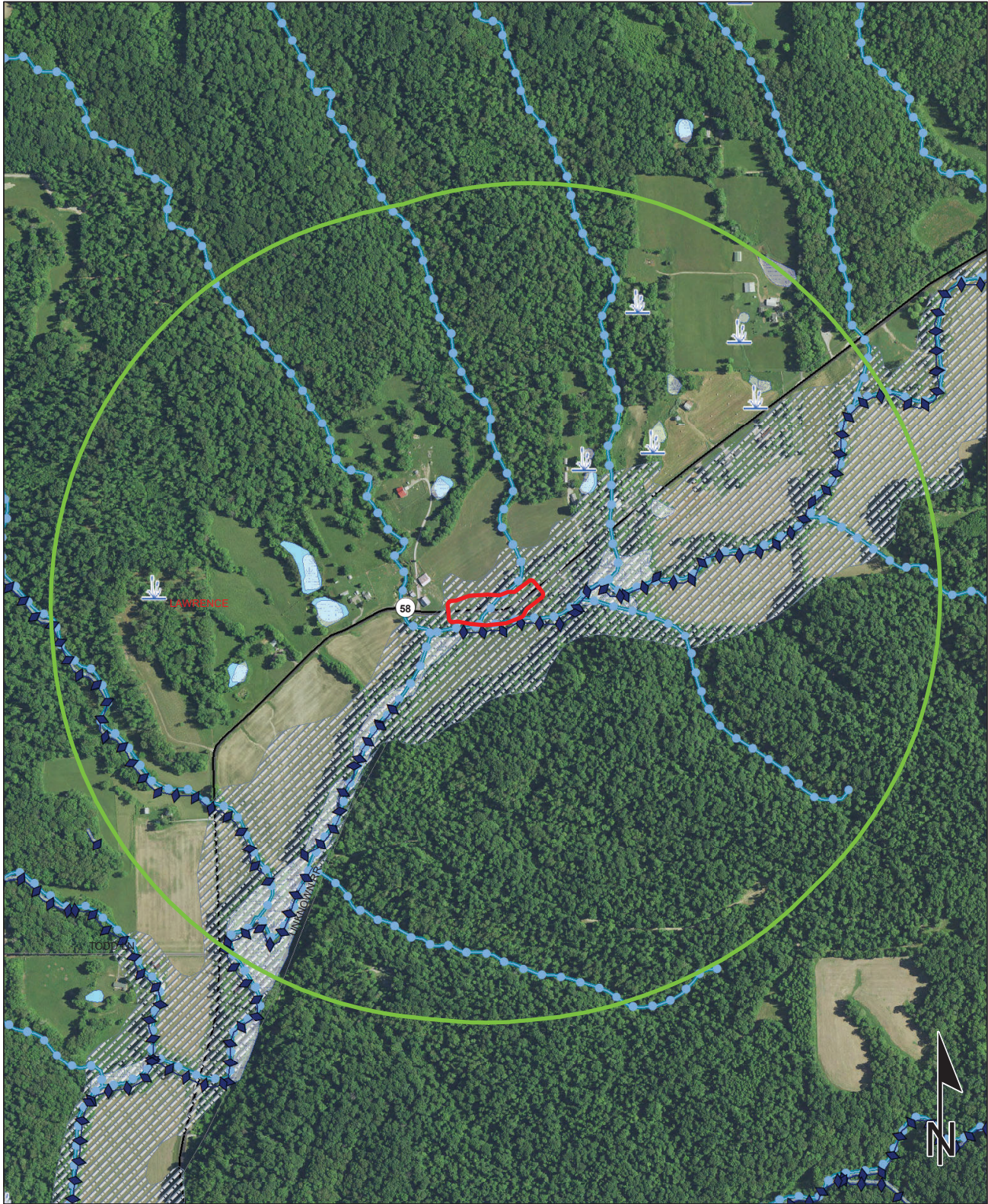
Sources:
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
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	Religious Facility		Recreation Facility		Project Area
	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 58, 9.23 Miles East of SR 37
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 Lawrence County, Indiana



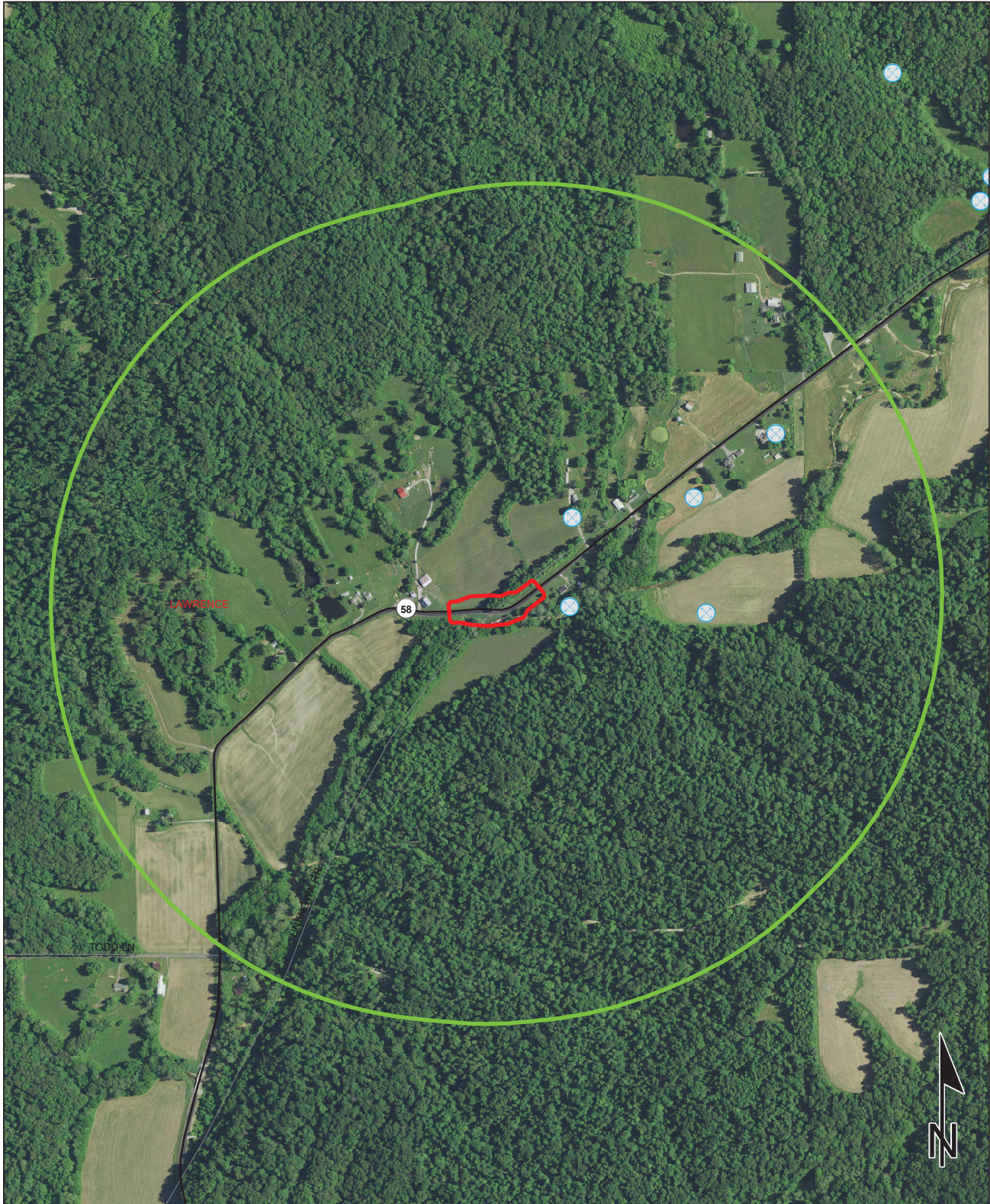
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NWI - Point	Wetlands	Project Area
Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
Canal Structure - Historic	Sinking-Stream Basin	US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

Red Flag Investigation - Mining/Mineral Exploration
 SR 58, 9.23 Miles East of SR 37
 Des. No. 1701050, Small Structure Replacement Project
 Lawrence County, Indiana



Sources: 0.15 0.075 0 0.15 Miles

Non Orthophotography
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