

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: September 9, 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: Daniel Townsend
Lochmueller Group, Inc.
6200 Vogel Road
Evansville, Indiana
DTownsend@lochgroup.com

Re: RED FLAG INVESTIGATION
DES # 1801002 & 1801387, State Project
Mitigation Site
I-69 Section 6, Stotts Creek Landlocked Site
Morgan County, Indiana

Note: This RFI document was prepared for Des No. 1801002 and Des No. 1801387. This CE document only covers Des No. 1801387. Des No. 1801002 was covered by a separate CE document.

PROJECT DESCRIPTION

Brief Description of Project: The Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT) propose to proceed with the development of the Stotts Creek Landlocked Mitigation Site (DES #s 1801002 & 1801387) to provide a portion of the forest mitigation for Section 6 of the I-69 project from Martinsville to Indianapolis (DES # 0300382). The proposed project is located approximately 6 miles north of the City of Martinsville along the west side of SR 37 and south/east of the White River (both north and south of the confluence of Stotts Creek). The proposed project is located approximately from just north of the SR 37/CR 500 E intersection to the SR 37/Cragen Road intersection. The Stotts Creek Landlocked Mitigation Site is approximately 120.2 acres in size. The proposed mitigation includes reforestation of agricultural fields and preservation of existing forest habitat. Bank stabilization measures along the White River are also being considered at the site.

Bridge and/or Culvert Project: Yes No Structure # _____

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 120.2 , Not Applicable

Type of excavation: Reshaping and grading for stabilization of the White River bank may be necessary.

Maintenance of traffic: N/A

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

State Project: LPA:

Any other factors influencing recommendations: Final design is not yet complete.

www.in.gov/dot/

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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	1	Railroads	N/A
Hospitals	N/A	Trails	1
Schools	N/A	Managed Lands	N/A

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

Explanation:

Cemeteries: One (1) cemetery is located within the 0.5 mile search radius. Cemetery CR-55-64, Old Mount Olive Methodist, is adjacent to the project area. A Cemetery Development Plan may be required since this project is within 100 feet of the cemetery. Coordination with INDOT Cultural Resources is recommended.

Trails: One (1) trail segment is located within the 0.5 mile search radius. The potential White River Greenway trail segment is located within the project area. Coordination with the Morgan County Board of Park Commissioners will occur.

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	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	29
Canal Structures – Historic	N/A	Lakes	11*
NPS NRI Listed	2	Floodplain - DFIRM	4
NWI-Lines	10	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	6	Sinkhole Areas	N/A
Rivers and Streams	22	Sinking-Stream Basins	N/A

Explanation:

NPS NRI Listed: Two (2) NPS NRI listed segments are located within the 0.5 mile search radius. Both NPS NRI listed segments, associated with the White River, are within or immediately adjacent to the project area. Coordination with the National Park Service and the US Department of Agriculture will be necessary.

NWI-Lines: Ten (10) NWI-line segments are located within the 0.5 mile search radius. Two (2) NWI-line segments are located adjacent to the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

IDEM 303d Listed Streams and Lakes: Six (6) 303d Listed Stream segments are located within the 0.5 mile search radius. Four (4) 303d Listed Stream segments are located within or adjacent to the project area. The impairments are listed below by stream segment.

- White River (south of Stotts Creek): E. coli and PCBs Fish Tissue (FT)
- White River (north of Stotts Creek): E. coli, Impaired Biotic Communities (IBC), and PCBs FT
- Stotts Creek (at White River confluence): E. coli
- Unnamed Tributary: E. coli, IBC, and PCBs FT

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. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT ES will occur. Regarding IBC, coordination with INDOT ES Ecology and Waterway Permitting should occur.

Rivers and Streams: Twenty-two (22) stream segments are located within the 0.5 mile search radius. Four (4) stream segments (associated with the White River, Stotts Creek, and an unnamed tributary) are located within or adjacent to the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

NWI – Wetlands: Twenty-nine (29) wetlands are located within the 0.5 mile search radius. Five (5) wetlands are located within the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

Lakes*: Eleven (11) lakes, five mapped and six unmapped as shown on aerial photography, are located within the 0.5 mile search radius. The nearest lake is located approximately 0.10 mile north of the project area. No impact is expected.

Floodplains: Four (4) floodplain polygons are located within the 0.5 mile search radius. The project area is located within two of the floodplain polygons. Coordination with INDOT ES Ecology and Waterway Permitting will occur.

URBANIZED AREA BOUNDARY SUMMARY

Explanation: N/A

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	1	Mineral Resources	1*
Mines – Surface	N/A	Mines – Underground	N/A

Explanation:

Petroleum Wells: One (1) petroleum well is located within the 0.5 mile search radius. The petroleum well is located approximately 0.13 mile southeast of the project area. No impact is expected.

Mineral Resources*: Although associated with an icon outside the 0.5 mile search radius, one (1) mineral resource is located within the 0.5 mile search radius. The facility, identified as Reith-Riley Construction Co, Inc, is located approximately 0.08 mile northeast 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)	1*
Voluntary Remediation Program	N/A	Brownfields	N/A
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	1*
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A
Leaking Underground Storage (LUST) Sites	N/A	Notice of Contamination Sites	N/A

Explanation:

Confined Feeding Operations (CFO)*: Although associated with an icon outside the 0.5 mile search radius, one (1) CFO (6030 New Harmony Road, Martinsville, IN 46151; Agency Interest ID 45788) is located 0.38 mile southeast of the project area. No impact is expected.

NPDES Facilities*: Although associated with an icon located outside the 0.5 mile search radius, one (1) NPDES facility, JW Jones Gravel Pit (5970 SR 37 N, Martinsville, IN 46151; Permit Number: INR10L532), is located 0.38 mile northeast of the project area. No impact is expected.

ECOLOGICAL INFORMATION SUMMARY

The Morgan 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 Environmental Services did 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 indicated the presence of endangered bat species in or within 0.5 mile of the project area. Additional coordination with INDOT ES will be necessary, and 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".

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:

Cemeteries: One (1) cemetery, Old Mount Olive Methodist (CR-55-64), is adjacent to the project area. A Cemetery Development Plan may be required since this project is within 100 feet of the cemetery. Coordination with INDOT Cultural Resources is recommended.

Trails: The potential White River Greenway trail segment is located within the project area. Coordination with the Morgan County Board of Park Commissioners will occur.

WATER RESOURCES:

NPS NRI Listed: Two (2) NPS NRI listed segments, associated with the White River, are located within or immediately adjacent to the project area. Coordination with the National Park Service and the US Department of Agriculture will be necessary.

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

- Two (2) NWI-line segments are located adjacent to the project area.
- Four (4) stream segments (associated with the White River, Stotts Creek, and an unnamed tributary) are located within or adjacent to the project area.
- Five (5) wetlands are located within the project area.
- The project area is located within two (2) floodplain polygons (coordination only).

IDEM 303d Listed Streams and Lakes: Four (4) 303d Listed Stream segments are located within or adjacent to the project area. The impairments are listed below by stream segment.

- White River (south of Stotts Creek): E. coli and PCBs FT
- White River (north of Stotts Creek): E. coli, IBC, and PCBs FT
- Stotts Creek (at White River confluence): E. coli
- Unnamed Tributary: E. coli, IBC, and PCBs FT

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. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT ES will occur. Regarding IBC, coordination with INDOT ES Ecology and Waterway Permitting should occur.

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: N/A

ECOLOGICAL INFORMATION: Coordination with USFWS and IDNR will occur. Due to the presence of endangered bat species within 0.5 mile of the project area, additional coordination with INDOT ES will be necessary, and 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".

Marlene Mathas

Digitally signed by Marlene Mathas

Date: 2019.09.10 06:41:07 -04'00' (Signature)

INDOT Environmental Services concurrence: _____

Prepared by:

Daniel Townsend

Daniel Townsend
GIS Manager, Environmental Department
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 **Removed to avoid duplication.**

INFRASTRUCTURE: YES

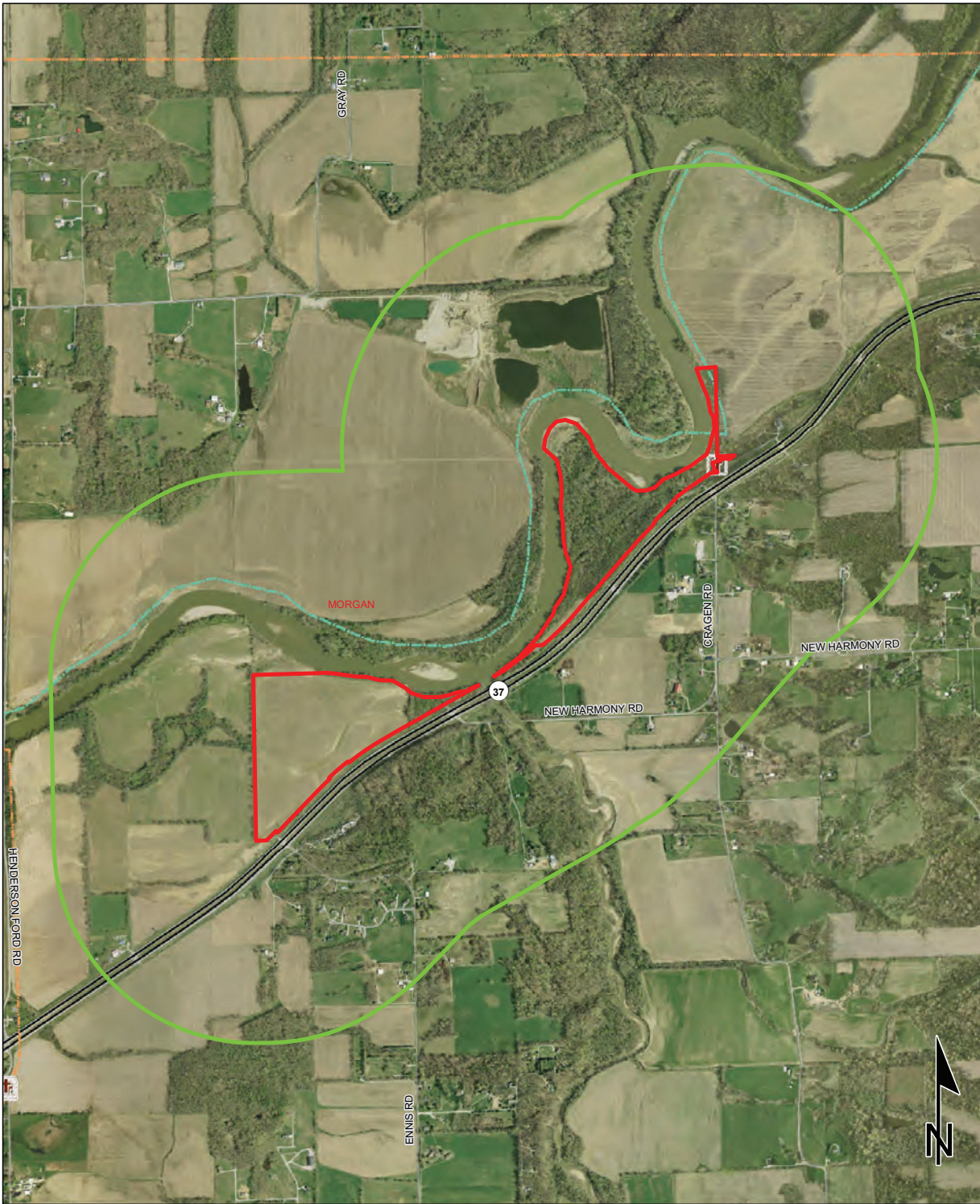
WATER RESOURCES: YES

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: YES

HAZMAT CONCERNS: YES

Red Flag Investigation - Infrastructure
 I-69 Section 6 Mitigation
 Des. No. 1801002 & 1801387, Stotts Creek Landlocked Site
 Morgan County, Indiana



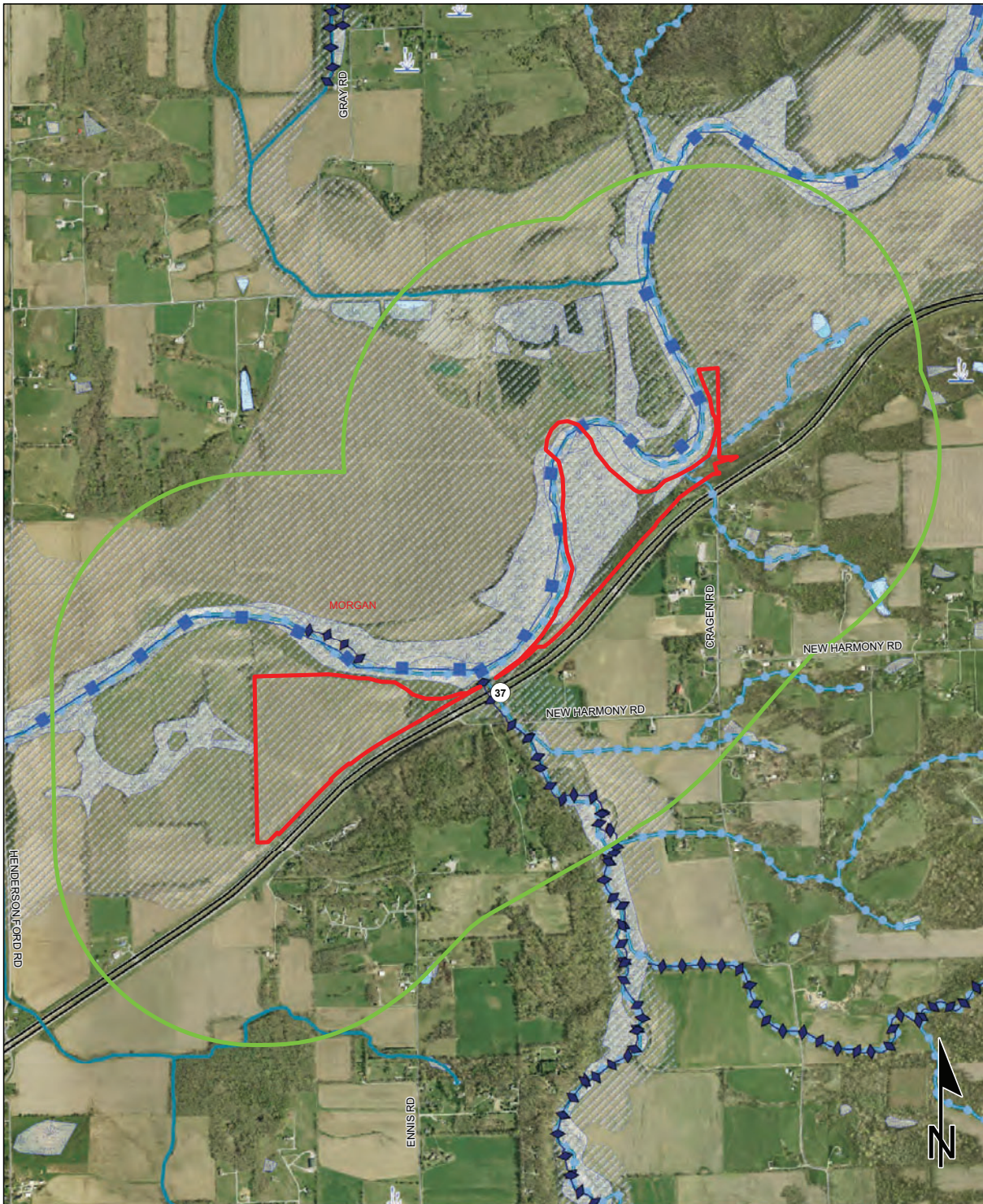
Sources: 0.3 0.15 0 0.3 Miles
 Non Orthophotography

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.

	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

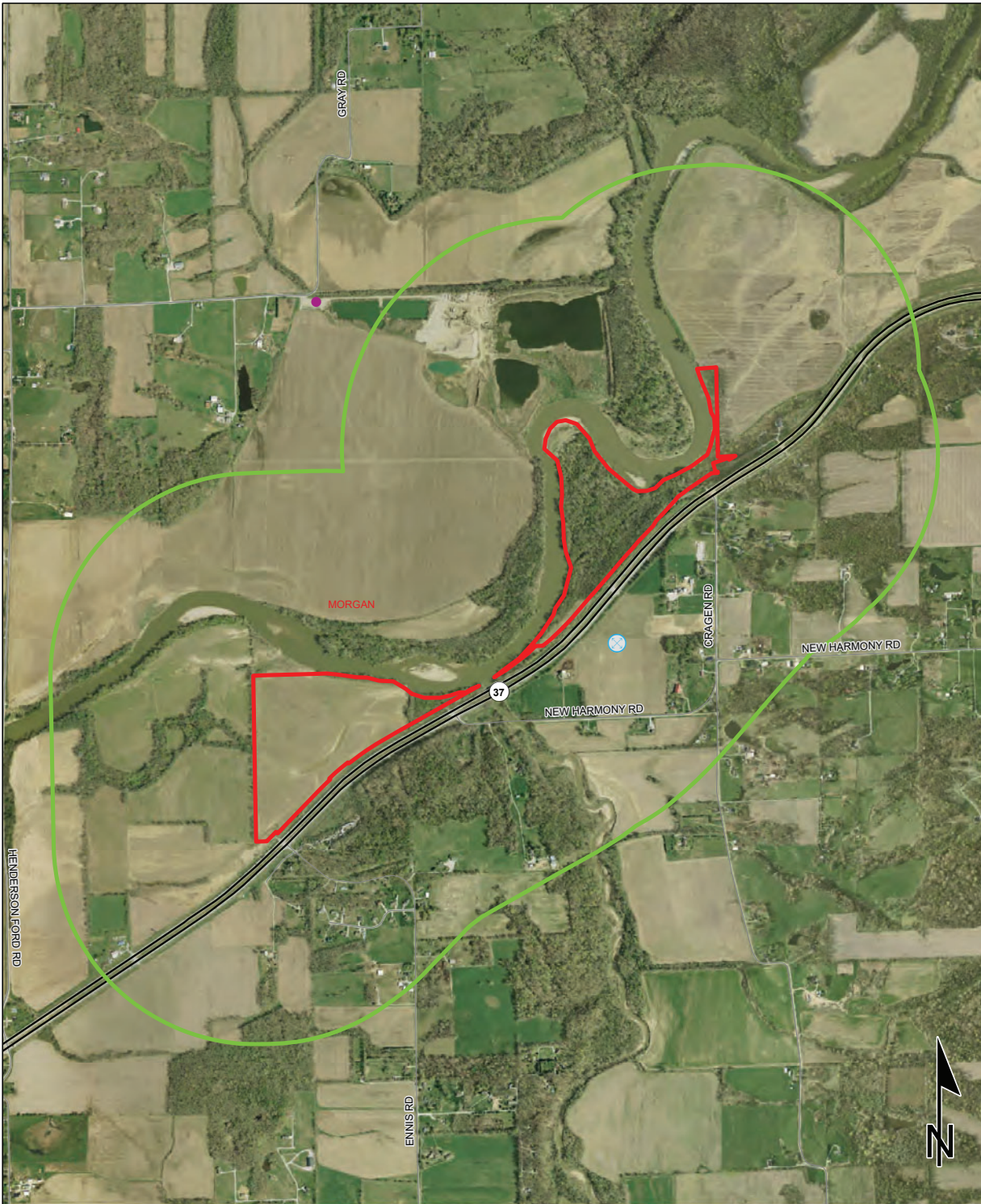
Red Flag Investigation - Water Resources
 I-69 Section 6 Mitigation
 Des. No. 1801002 & 1801387, Stotts Creek Landlocked Site
 Morgan County, Indiana



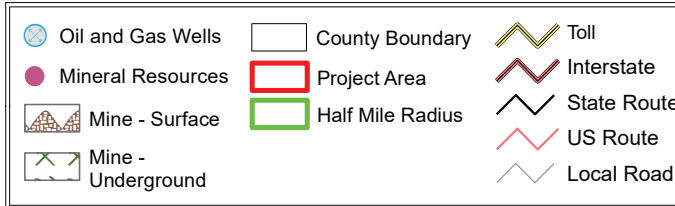
Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
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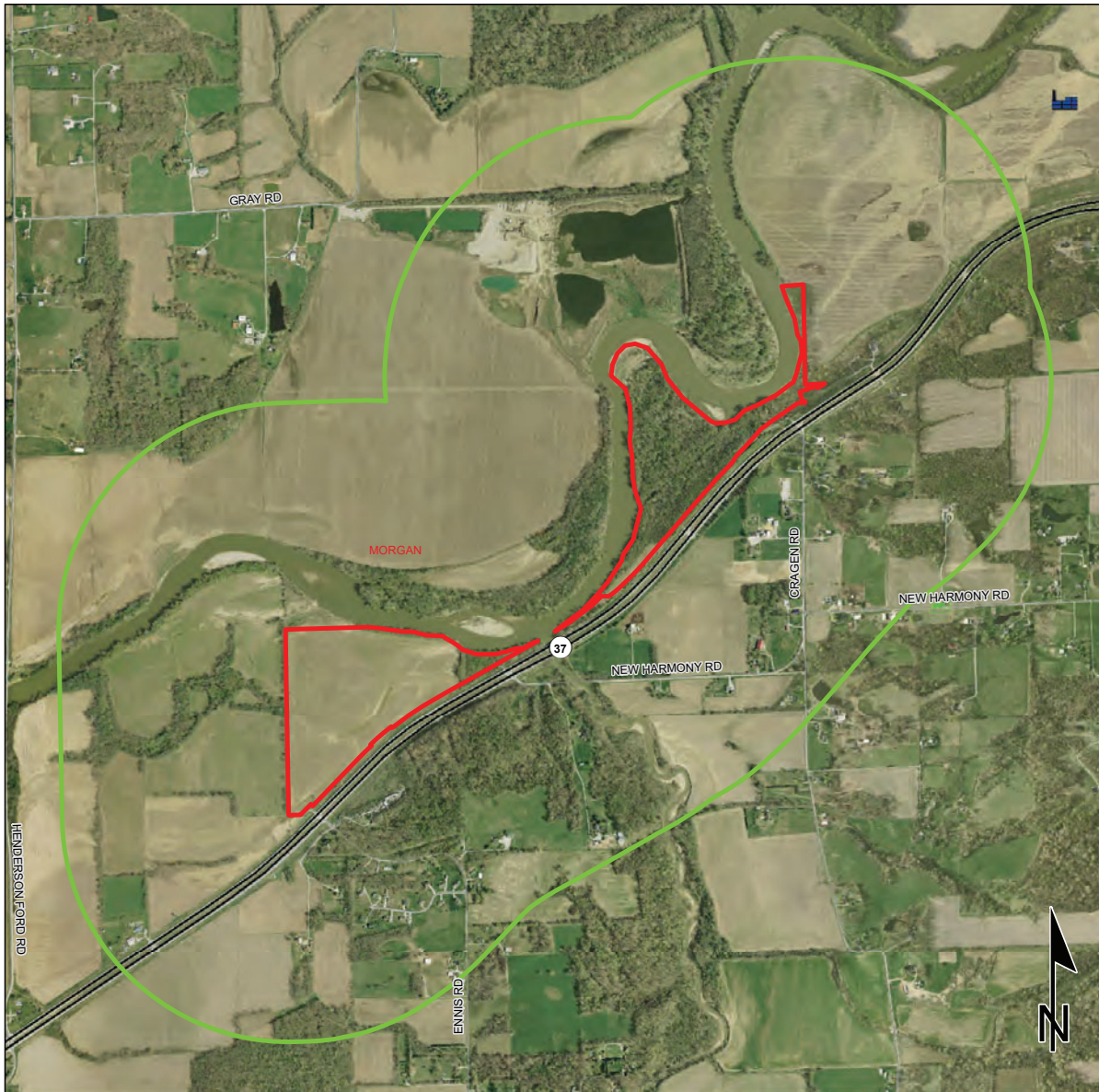
Red Flag Investigation - Mining/Mineral Exploration
 I-69 Section 6 Mitigation
 Des. No. 1801002 & 1801387, Stotts Creek Landlocked Site
 Morgan County, Indiana



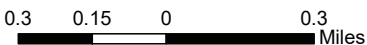
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Red Flag Investigation - Hazardous Material Concerns
 I-69 Section 6 Mitigation
 Des. No. 1801002 & 1801387, Stotts Creek Landlocked Site
 Morgan County, Indiana



	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation		Septage Waste Site		Project Area
	Notice_of_Contamination		Solid Waste Landfill		Half Mile Radius
	Construction/Demolition Site		State Cleanup Site		Toll
	Infectious/Medical Waste Site		Superfund		Interstate
	Leaking Underground Storage Tank		Tire Waste Site		State Route
	Manufactured Gas Plant		Underground Storage Tank		US Route
	NPDES Facilities		Voluntary Remediation Program		Local Road
	NPDES Pipe Locations		Waste Transfer Station		
	Open Dump Waste Site				



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Des No. 1801387

Sources:

Non Orthophotography
 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

Indiana County Endangered, Threatened and Rare Species List

County: Morgan

Species Name	Common Name	FED	STATE	GRANK	SRANK
Diplopoda					
Conotyla bollmani	Bollman's Cave Milliped		WL	G5	S3
Crustacean: Malacostraca					
Orconectes inermis testii	Troglobitic Crayfish		SR	G5T3	S3
Mollusk: Bivalvia (Mussels)					
Cyprogenia stegaria	Eastern Fanshell Pearlymussel	LE	SE	G1Q	S1
Epioblasma propinqua	Tennessee Riffleshell		SX	GX	SX
Epioblasma rangiana	Northern Riffleshell	LE	SE	G2	S1
Epioblasma torulosa	Tubercled Blossom	LE	SX	GX	SX
Epioblasma triquetra	Snuffbox	LE	SE	G3	S1
Fusconaia subrotunda	Longsolid	C	SX	G3	SX
Hemistena lata	Cracking Pearlymussel	LE	SX	G1	SX
Lampsilis ovata	Pocketbook			G5	S2
Ligumia recta	Black Sandshell			G4G5	S2
Obovaria retusa	Ring Pink	LE	SX	G1	SX
Obovaria subrotunda	Round Hickorynut	C	SE	G4	S1
Plethobasus cyphus	Sheepnose	LE	SE	G3	S1
Pleurobema clava	Clubshell	LE	SE	G1G2	S1
Pleurobema plenum	Rough Pigtoe	LE	SE	G1	S1
Pleurobema rubrum	Pyramid Pigtoe		SX	G2G3	SX
Ptychobranchnus fasciolaris	Kidneyshell		SSC	G4G5	S2
Quadrula cylindrica cylindrica	Rabbitsfoot	LT	SE	G3G4T3	S1
Villosa lienosa	Little Spectaclecase		SSC	G5	S3
Insect: Lepidoptera (Butterflies & Moths)					
Euphydryas phaeton	Baltimore			G5	S3S4
Insect: Odonata (Dragonflies & Damselflies)					
Enallagma divagans	Turquoise Bluet		SR	G5	S3
Rhionaeschna mutata	Spatterdock Darner		ST	G4	S2S3
Tachopteryx thoreyi	Gray Petaltail		WL	G4	S3
Fish					
Percina evides	Gilt Darter		SE	G4	S1
Amphibian					
Hemidactylium scutatum	Four-toed Salamander		SSC	G5	S2
Lithobates areolatus circulosus	Northern Crawfish Frog		SE	G4T4	S2
Reptile					
Clonophis kirtlandii	Kirtland's Snake		SE	G2	S2
Crotalus horridus	Timber Rattlesnake		SE	G4	S2
Macrochelys temminckii	Alligator Snapping Turtle	C	SE	G3G4	SH
Opheodrys aestivus	Rough Green Snake		SSC	G5	S3

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
This data is not the result of comprehensive county surveys.

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting
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

Indiana County Endangered, Threatened and Rare Species List

County: Morgan

Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Terrapene carolina carolina</i>	Eastern Box Turtle		SSC	G5T5	S3
Bird					
<i>Accipiter striatus</i>	Sharp-shinned Hawk		SSC	G5	S2B
<i>Aimophila aestivalis</i>	Bachman's Sparrow			G3	SXB
<i>Ammodramus henslowii</i>	Henslow's Sparrow		SE	G4	S3B
<i>Bartramia longicauda</i>	Upland Sandpiper		SE	G5	S3B
<i>Buteo platypterus</i>	Broad-winged Hawk		SSC	G5	S3B
<i>Haliaeetus leucocephalus</i>	Bald Eagle		SSC	G5	S2
<i>Helmitheros vermivorus</i>	Worm-eating Warbler		SSC	G5	S3B
<i>Lanius ludovicianus</i>	Loggerhead Shrike		SE	G4	S3B
<i>Mniotilta varia</i>	Black-and-white Warbler		SSC	G5	S1S2B
<i>Pandion haliaetus</i>	Osprey		SSC	G5	S1B
<i>Setophaga cerulea</i>	Cerulean Warbler		SE	G4	S3B
<i>Setophaga citrina</i>	Hooded Warbler		SSC	G5	S3B
<i>Thryomanes bewickii</i>	Bewick's Wren			G5	S1B
<i>Tyto alba</i>	Barn Owl		SE	G5	S2
Mammal					
<i>Lasiurus borealis</i>	Eastern Red Bat		SSC	G3G4	S4
<i>Lasiurus cinereus</i>	Hoary Bat		SSC	G3G4	S4
<i>Myotis lucifugus</i>	Little Brown Bat	C	SE	G3	S2
<i>Myotis septentrionalis</i>	Northern Long Eared Bat	LT	SE	G1G2	S2S3
<i>Myotis sodalis</i>	Indiana Bat	LE	SE	G2	S1
<i>Nycticeius humeralis</i>	Evening Bat		SE	G5	S1
<i>Perimyotis subflavus</i>	Tricolored Bat		SE	G2G3	S2S3
<i>Taxidea taxus</i>	American Badger		SSC	G5	S2
Vascular Plant					
<i>Epigaea repens</i>	Trailing Arbutus		SR	G5	S3
<i>Fleischmannia incarnata</i>	Pink Thoroughwort		ST	G5	S2
<i>Juglans cinerea</i>	Butternut		ST	G4	S2
<i>Panax quinquefolius</i>	American Ginseng		WL	G3G4	S3
<i>Pinus strobus</i>	Eastern White Pine		SR	G5	S3
<i>Rubus odoratus</i>	Purple Flowering Raspberry		ST	G5	S2
<i>Tsuga canadensis</i>	Eastern Hemlock		WL	G5	S3
High Quality Natural Community					
Forest - upland dry-mesic Highland Rim	Highland Rim Dry-mesic Upland Forest		SG	GNR	S3
Forest - upland mesic Highland Rim	Highland Rim Mesic Upland Forest		SG	GNR	S3
Primary - cliff eroding	Eroding Cliff		SG	G4	S1
Wetland - fen	Fen		SG	G3	S3

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
This data is not the result of comprehensive county surveys.

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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

Indiana County Endangered, Threatened and Rare Species List

County: Morgan

Species Name	Common Name	FED	STATE	GRANK	SRANK
Wetland - seep circumneutral	Circumneutral Seep		SG	GU	S1
Other Significant Feature					
Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade	Water Fall and Cascade			GNR	SNR

Indiana Natural Heritage Data Center
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Categorical Exclusion
Appendix F
Water Resources

Indiana Floodplain Information Portal



Indiana Department of Natural Resources **DNR**

Find an address

Example: 300 Michigan Avenue, Auburn, IN, 46706

Go To Address

Jump to a county

- or - Select your county from below
Adams

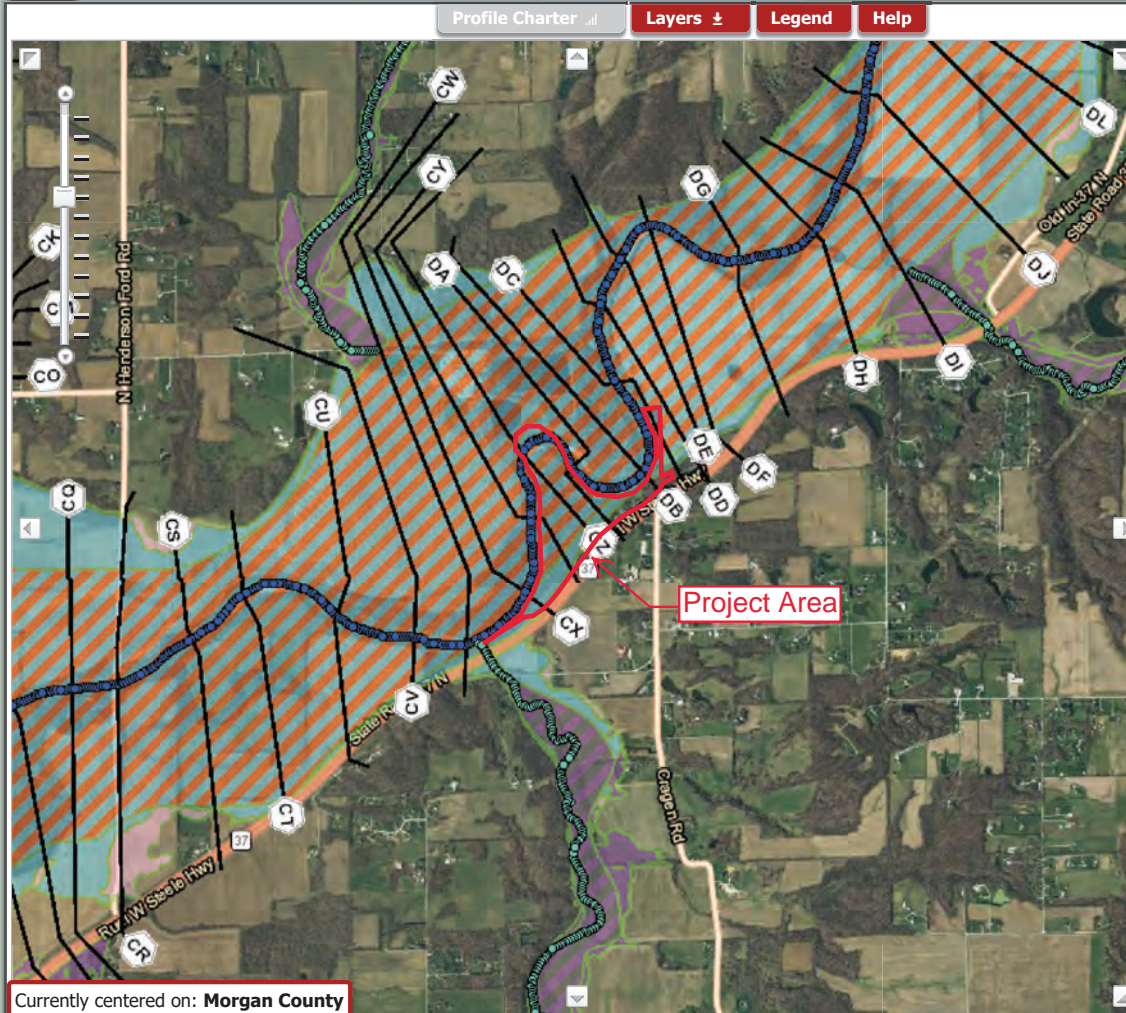
View your county's [Flood Insurance Study](#).

For the best feel and performance, use [Firefox 3.5+](#), [Internet Explorer 8+](#), [Chrome](#), or [Safari 4+](#).

[< Previous Tips](#) [Next Tips >](#)

Map FEMA Flood Insurance Study Floodplain Layers Frequently Asked Questions

Minimize



Follow instructions under "How to navigate the map" to select a Point of Interest.

What does INFIP do?

The Indiana Floodplain Information Portal, INFIP, is a mapping application that provides floodplain information for waterways to help citizens determine flood risk in an effort to minimize flood damage. INFIP utilizes FEMA published floodplain data and floodplain data from various, IDNR approved resources in order to provide the most available, comprehensive coverage of floodplain information for the State of Indiana.

The main functions of INFIP enables you to:

- select a Point of Interest (i.e. residence or tract of land) to view floodplain mapping and the Base Flood Elevations (BFE)
- print a floodplain map for a Point of Interest
- submit a request for a Floodplain Analysis / Regulatory Assessment (FARA) from the Division of Water

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C. Blum

Waters of the U.S. Report

July 13, 2020

I-69 Section 6

Stotts Creek 2 Mitigation Site

Prepared by: Holly Hume

Des. No.: 1801387



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Waters of the U.S. Report
I-69 Section 6
Stotts Creek 2 Mitigation Site
Morgan County, Indiana
Des. No. 1801387

Date(s) of Field Reconnaissance

May 13 and June 4, 2020

Location

The project is located north of the City of Martinsville along the west side of State Road (SR) 37, south of the West Fork of White River, extending from the confluence of the West Fork of White River and Stotts Creek to approximately 0.1 mile north of the SR 37/Cragen Road intersection (Pages A1-A3).

- Sections 4, 5, and 8, Township 12 North, Range 2 East
- Mooresville East 1:24,000 United States Geological Survey (USGS) Quadrangle
- Clay and Green Townships, Morgan County, Indiana
- Latitude: 39.506979°N Longitude: 86.327088°W

Project Description

The project (Des. No. 1801387) involves the construction of the 54.0-acre Stotts Creek 2 Mitigation Site.

Two wetlands (Wetlands A and B) and four streams (West Fork of White River, Stotts Creek, UNT1 to West Fork of White River, and UNT2 to West Fork of White River) were identified within the survey area. The survey area is located north of the City of Martinsville with surrounding landscape consisting of agricultural fields, transportation facilities, and residential areas. The project survey area is located within a floodplain.

Soils

According to the Soil Survey Geographic (SSURGO) Database for Morgan County, Indiana, the survey area contains soil areas with national hydric soils (Page A4 through A5).

Soil Name	Map Abbreviation	Hydric Range
Berks channery silt loam, 35 to 80 percent slopes	BfG	Not Hydric (0%)
Genesee silt loam	Ge	Not Hydric (0%)
Princeton fine sandy loam, 2 to 6 percent slopes	PrB	Not Hydric (0%)
Princeton fine sandy loam, 6 to 12 percent slopes	PrC	Not Hydric (0%)
Princeton fine sandy loam, 12 to 18 percent slopes	PrD	Not Hydric (0%)
Stonelick sandy loam	St	Hydric (1-32%)

National Wetlands Inventory Information

There are four National Wetland Inventory (NWI) wetlands identified within the survey area (Page A6). The U.S. Fish and Wildlife NWI Mapper (<https://www.fws.gov/wetlands/Data/Mapper.html>) includes the following wetlands within the Stotts Creek 2 Mitigation Site survey area. Wetland type is based on *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979).



Wetland Type	Description	Location: Lat/Long
PFO1A	Palustrine, forested, broad-leaved deciduous, temporarily flooded	39.506826°N 86.326524°W
PFO1A	Palustrine, forested, broad-leaved deciduous, temporarily flooded	39.508322°N 86.324353°W
R2USA	Riverine, lower perennial, unconsolidated shore, temporary flooded	39.509650°N 86.328436°W
R2UBH	Riverine, lower perennial, unconsolidated bottom, permanently flooded	39.553722°N 86.322039°W

12-Digit HUC

The Stotts Creek 2 Mitigation Site survey area is within the 051202011407 12-Digit HUC (Sinking Creek-West Fork of White River). The USGS StreamStats (<https://water.usgs.gov/osw/streamtstats/>) generated four watershed areas within or adjacent to the project survey area. Watershed 1 is 2,062.5 square miles, Watershed 2 is 60.0 square miles, and Watershed 3 is 0.3 square mile. Watershed 4 is 0.03 square mile; however, no stream was identified (Pages A8-A9). The Indiana Floodplain Information Portal (<https://dnrmmaps.dnr.in.gov/appsphp/fdms/>) Best Available Flood Zones data indicate that the survey area is within a mapped floodplain (Page A7). The survey area is within a floodway.

Attached Documents

- ~~Project Location Map~~
- ~~USGS Topographic Map (1:24,000)~~
- ~~USGS Topographic Map (1:12,000)~~
- Morgan County SSURGO Hydric Soils Map
- USFWS NWI Map
- Floodplain Map
- USGS StreamStats Watershed Map
- Water Resources Map
- ~~Photo Location Map and Project Photos~~
- Wetland Determination Data Forms
- USACE Preliminary Jurisdictional Determination Form

Note: A portion of the attachments have been removed to avoid duplication and reduce file size.

Field Reconnaissance

The Waters of the U.S. (WOTUS) investigation survey area limits were established based on the scope of work expected for the Stotts Creek 2 Mitigation Site project. Wetland determinations were conducted in accordance with the *Corps of Engineers Wetland Delineation Manual* (U.S. Army Corps of Engineers 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region Version 2.0* (U.S. Army Corps of Engineers 2010). Wetland Data sheets from the U.S. Army Corps of Engineers Detroit District website (<https://www.lre.usace.army.mil/Missions/Regulatory-Program-and-Permits/Automated-Wetland-Determination-Data-Form/>) were used to make wetland determinations. Due to discrepancies within the data sheets for soil indicator (S7) and red parent material (F21) between the Midwest Region Version 2.0 manual and the Detroit District, all methods remained consistent with the Midwest Region Version 2.0 manual. Two wetlands and four streams were identified during the field reconnaissance.



Stream Feature(s)

The USGS Mooresville East 1:24,000 topographic quadrangle identified four blue-line stream features within or adjacent to the Stotts Creek 2 Mitigation Site survey area (Pages A2 and A3). The NHD GIS dataset included seven flow line features within or adjacent to the survey area (Pages A7). Field investigation concluded that the four of the flow line features were identified as the West Fork of White River, Stotts Creek, UNT1 to West Fork of White River, and UNT2 to West Fork of White River which all exhibited bed and bank and OHWM.

West Fork of White River

The West Fork of White River is a perennial stream that flows from northeast to southwest along the western border of the survey area (Page A10). Approximately 6,418 feet of the stream is within the survey area. The OHWM of the West Fork of White River north of Stotts Creek is 309 feet wide and 20 feet deep. The drainage area is estimated to be 2,062.5 square miles. This reach of the West Fork of White River is dominated by sand (75%) with silt (25%). This reach of the West Fork of White River is predominantly run (90%) with pool (10%). The reach of the West Fork of White River is a natural channel with wooded riparian areas and agriculture row crop. This stream reach is considered to exhibit average quality based on bank stabilization, substrate, and riparian cover.

The West Fork of White River is navigable throughout Morgan County. The West Fork of White River is a traditional navigable water (TNW). Therefore, the West Fork of White River is subject to USACE jurisdiction under section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act.

Stotts Creek

Stotts Creek is a perennial stream that flows from southeast to northwest near the southwest border of the survey area (Page A10). Approximately 71 feet of the stream is adjacent to the survey area. The OHWM of Stotts Creek near its confluence with the West Fork of White River is 102 feet wide and 6 feet deep. The drainage area is estimated to be 60.0 square miles. This reach of Stotts Creek is dominated by silt (60%) with sand (40%). This reach of Stotts Creek is predominantly pool (70%) with run (30%). This reach of Stotts Creek is a natural channel with wooded riparian areas and agriculture row crop. This stream reach is considered to exhibit average quality based on substrate and riparian cover.

Stotts Creek is considered to be a relatively permanent water (RPW) with a direct connection to the West Fork of White River, a TNW. Therefore, Stott's Creek is subject to USACE jurisdiction under section 404 of the Clean Water Act. This stream is not subject to USACE jurisdiction under Section 10 of the River and Harbors Act.

UNT1 to West Fork of White River

UNT1 to West Fork of White River is an intermittent stream that flows from southeast to northwest within the eastern portion of the survey area (Page A10). Approximately 544 feet of the stream is within the survey area. The OHWM of UNT1 to West Fork of White River is approximately 11 feet wide and 1 foot deep. The drainage area is estimated to be 0.3 square mile. UNT1 to West Fork of White River is dominated by sand (40%) with gravel (30%) and cobble (30%). UNT1 to West Fork of White River is predominantly riffle (60%) with run (40%). UNT1 to West Fork of White River is a natural channel with wooded riparian areas. This stream is considered to exhibit excellent quality based on substrate and riparian cover.



UNT1 to West Fork of White River is considered to be an RPW with a direct connection to the West Fork of White River, a TNW. Therefore, UNT1 to West Fork of White River is subject to USACE jurisdiction under section 404 of the Clean Water Act. This stream is not subject to USACE jurisdiction under Section 10 of the River and Harbors Act.

UNT2 to West Fork of White River

UNT2 to West Fork of White River is an intermittent stream that flows northeast to southwest from beyond the eastern boundary of the survey area to the West Fork of White River (Page A10). Approximately 196 feet of the stream is within the survey area. The OHWM of UNT2 to West Fork of White River is approximately 9 feet wide and 1 foot deep. The drainage area is estimated to be 0.03 square mile. UNT2 to West Fork of White River is dominated by silt (100%). UNT2 to West Fork of White River is predominantly run (90%) with riffle (5%) and pool (5%). UNT2 to West Fork of White River is a natural channel with wooded riparian areas. This stream is considered to exhibit poor quality based on substrate, size, and function.

UNT2 to West Fork of White River is considered to be an RPW with a direct connection to the West Fork of White River, a TNW. Therefore, UNT2 to West Fork of White River is subject to USACE jurisdiction under section 404 of the Clean Water Act. This stream is not subject to USACE jurisdiction under Section 10 of the River and Harbors Act.

Stream Summary Table

Water Feature Name	Photos	Lat/Long	OHW Width (ft)	OHW Depth (ft)	USGS Blue-line? Type?	Riffles? Pools?	Quality	Substrate	Likely Waters of U.S.?
West Fork of White River	40-45	39.509360°N 86.329497°W	309	20	Yes Perennial	No Yes	Average	Sand, Gravel	Yes
Stotts Creek	38-39	39.500996°N 86.329608°W	78	6	Yes Perennial	No Yes	Average	Silt, Sand	Yes
UNT1 to West Fork of White River	36-37	39.508322°N 86.323625°W	24	1	Yes Intermittent	Yes No	Excellent	Sand, Gravel, Cobble	Yes
UNT2 to West Fork of White River	46-47	39.509222°N 86.322451°W	9	1	Yes Intermittent	Yes Yes	Poor	Silt	Yes

Wetlands

The May 13, 2020 field investigation identified two wetland features within the Stotts Creek Mitigation Site survey area.

Wetland A

This 0.54-acre palustrine, forested wetland is in the central portion of the survey area approximately 0.08 mile north of the southbound (SB) SR 37 pavement. It conveys drainage to the West Fork of White River (Page A10). Therefore, Wetland A is subject to Clean Water Act jurisdiction due to a direct hydrologic connection with the West Fork of White River, a TNW. As defined by Cowardin *et al.* (1979), this wetland would be classified as palustrine, forested, broad-leaved deciduous, temporarily flooded



(PFO1A). Wetland A has formed within a depression that serves as flood storage for the West Fork of White River during high water events. Based on a qualitative assessment of Wetland A, this wetland is of average quality due to its size, function, and quality of vegetation.

Data point AW1

This data point represents wetland conditions within Wetland A, an area in the central portion of the Stotts Creek 2 Mitigation Site survey area. There are no sapling/shrub or woody vine strata identified within the plot area. The dominant species within the tree stratum are eastern cottonwood (*Populus deltoides*, FAC) and silver maple (*Acer saccharinum*, FACW). The dominant species within the herb stratum consisted of late-flowering thoroughwort (*Eupatorium serotinum*, FAC), dock-leaf smartweed (*Persicaria lapathifolia*, FACW), and creeping yellowcress (*Rorippa sylvestris*, OBL). The plant community passes the dominance test (100%) for hydrophytic vegetation; therefore, hydrophytic vegetation is present and no further vegetation analysis is required. Primary indicators of hydrology included a high water table (A2) and drift deposits (B3). Secondary indicators of hydrology included crayfish burrows (C8), geomorphic position (D2), and FAC-neutral test (D5). Therefore, wetland hydrology is present. The USDA NRCS Web Soil Survey indicates that this data point is within the Genesee silt loam unit. The Genesee series is not considered to be a hydric soil. The soil profile from a pit excavated to a depth of 20 inches consisted of a 10YR 4/1 (70%) loamy/clayey layer with 10YR 3/6 (30%) redox features to a depth of 8 inches, a 10YR 4/3 (100%) sandy layer from 8 to 11 inches, and a 10YR 5/4 (100%) sandy layer from 11 to 20 inches. The soil profile examined at this location meets the depleted matrix (F3) indicator; therefore, hydric soil is present. This data point meets the requirements for hydrophytic vegetation, hydrology, and hydric soils; therefore, this data point is within a wetland.

Data Point AD1

This data point represents non-wetland conditions for Wetland A within the central portion of the survey area. There are no sapling/shrub or woody vine strata identified within the plot area. The dominant species within the tree stratum consisted of silver maple (*Acer saccharinum*, FACW) and ash-leaf maple (*Acer negundo*, FAC). The dominant species within the herb stratum consisted of reed canary grass (*Phalaris arundinacea*, FACW), dock-leaved smartweed (*Persicaria lapathifolia*, FACW), river-bank wild rye (*Elymus riparius*, FACW), and hooded blue violet (*Viola sororia*, FAC). The plant community passes the dominance test (100%) for hydrophytic vegetation; therefore, hydrophytic vegetation is present and no further vegetation analysis is required. Only one secondary indicator of wetland hydrology, FAC-neutral test (D5) was observed; therefore, wetland hydrology is not present. The USDA NRCS Web Soil Survey indicates that this data point is within the Genesee silt loam unit. The Genesee series is not considered to be a hydric soil. The soil profile from a pit excavated to a depth of 20 inches consisted of a 10YR 4/1 (100%) loamy/clayey layer to a depth of 20 inches. No primary or secondary hydric soil indicators were observed at this location; therefore, hydric soil is not present. Only one of the three required wetland criteria were present; therefore, this data point is not within a wetland.

Wetland B

This 0.06-acre emergent wetland is situated along the eastern boundary of the Stotts Creek 2 Mitigation Site survey area approximately 0.07 mile northeast of SB SR 37. It is located along and conveys drainage to UNT2 to West Fork of White River (Page A12). UNT2 to West Fork of White River flows into the West Fork of White River. Therefore, Wetland B is subject to Clean Water Act jurisdiction due to a direct hydrologic connection with the West Fork of White River, a TNW. As defined by Cowardin *et al.* (1979), this wetland would be classified as palustrine emergent, persistent, seasonally flooded/saturated



(PEM1E). Wetland B has formed within a low depressional area adjacent to UNT2 to West Fork of White River. Based on a qualitative assessment of Wetland B, this wetland is of poor quality due to its size, function, and quality of vegetation.

Data point BW1

This data point represents wetland conditions within Wetland B, an area approximately 0.07 mile northeast of SB SR 37. There are no tree, sapling/shrub, or woody vine strata identified within the plot area. The dominant species within the herb stratum consisted of cress-leaf groundsel (*Packera glabella*, FACW), white paniced American-aster (*Symphiotrichum lanceolatum*, FAC), and reed canary grass (*Phalaris arundinacea*, FACW). The plant community passes the dominance test (100%) for hydrophytic vegetation; therefore, hydrophytic vegetation is present and no further vegetation analysis is required. No Primary indicators of hydrology were observed. Secondary indicators of hydrology included surface soil cracks (B6), geomorphic position (D2), and FAC-neutral test (D5). Therefore, wetland hydrology is present. The USDA NRCS Web Soil Survey indicates that this data point is within the Genesee silt loam unit. The Genesee series is not considered to be a hydric soil. The soil profile from a pit excavated to a depth of 20 inches consisted of a 10YR 3/1 (100%) loamy/clayey layer to a depth of 6 inches and a 10YR 3/1 (95%) loamy/clayey layer with 10YR 4/6 (5%) redox features from 6 to 20 inches. The soil profile examined at this location meets the redox dark surface (F6) indicator; therefore, hydric soil is present. This data point meets the requirements for hydrophytic vegetation, hydrology, and hydric soils; therefore, this data point is within a wetland.

Data Point BD1

This data point represents non-wetland conditions for Wetland B within the eastern portion of the survey area. There are no sapling/shrub or woody vine strata identified within the plot area. The dominant species within the tree stratum are silver maple (*Acer saccharinum*, FACW) and ash-leaf maple (*Acer negundo*, FAC). The dominant species within the herb stratum consisted of stinging nettle (*Urtica dioica*, FACW) and great ragweed (*Ambrosia trifida*, FAC). The plant community passes the dominance test (100%) for hydrophytic vegetation; therefore, hydrophytic vegetation is present and no further vegetation analysis is required. Only one secondary indicator of wetland hydrology, FAC-neutral test was observed; therefore, wetland hydrology is not present. The USDA NRCS Web Soil Survey indicates that this data point is within the Genesee silt loam unit. The Genesee series is not considered to be a hydric soil. The soil profile from a pit excavated to a depth of 20 inches consisted of a 10YR 3/1 (100%) loamy/clayey layer to a depth of 8 inches and a 10YR 4/1 (100%) loamy/clayey layer from 8 to 20 inches. The soil profile examined at this location did not meet any hydric soil indicators; therefore, hydric soil is not present. Only one of the three required wetland criteria were present; therefore, this data point is not within a wetland.

Negative Data Point N1

This data point represents non-wetland conditions within the eastern portion of the survey area within an NWI wetland (Page A12). There is no woody vine stratum identified within the plot area. The dominant species within the tree stratum are slippery elm (*Ulmus rubra*, FAC) and ash-leaf maple (*Acer negundo*, FAC). The dominant species within the sapling/shrub stratum is box elder (*Acer negundo*, FAC). The dominant species within the herb stratum are white paniced American-aster (*Symphiotrichum lanceolatum*, FAC), river-bank wild rye (*Elymus riparius*, FACW), green-head coneflower (*Rudbeckia laciniata*, FACW), stinging nettle (*Urtica dioica*, FACW), hooded blue violet (*Viola sororia*, FAC), and spotted touch-me-not (*Impatiens capensis*, FACW). The plant community passes the dominance test



(100%) for hydrophytic vegetation; therefore, hydrophytic vegetation is present and no further vegetation analysis is required. One primary indicator of hydrology, drift deposits (B3), and one secondary indicator of hydrology, FAC-neutral test (D5), were observed. Therefore, wetland hydrology is present. The USDA NRCS Web Soil Survey indicates that this data point is within the Genesee silt loam unit. The Genesee series is not considered to be a hydric soil. The soil profile from a pit excavated to a depth of 20 inches consisted of a 10YR 3/2 (100%) loamy/clayey layer from 0 to 20 inches. The soil profile examined at this location did not meet any hydric soil indicators; therefore, hydric soil is not present. Although this data point was taken within an NWI wetland, only two of the three wetland criteria were present; therefore, this data point is not within a wetland.

Negative Data Point N2

This data point represents non-wetland conditions within the central portion of the survey area within an NWI wetland (Page A12). No woody vine stratum was identified within the plot area. The dominant species within the tree stratum is silver maple (*Acer saccharinum*, FACW). Within the sapling/shrub stratum no dominant species were present; however, (2%) of ash-leaf maple (*Acer negundo*, FAC) and (2%) of common hackberry (*Celtis occidentalis*, FAC) were observed. The dominant species within the herb stratum are green-head coneflower (*Rudbeckia laciniata*, FACW) and stinging nettle (*Urtica dioica*, FACW). The plant community passes the dominance test (100%) for hydrophytic vegetation; therefore, hydrophytic vegetation is present and no further vegetation analysis is required. Only one secondary indicator of hydrology, FAC-neutral test (D5), was observed. Therefore, wetland hydrology is not present. The USDA NRCS Web Soil Survey indicates that this data point is within the Genesee silt loam unit. The Genesee series is not considered to be a hydric soil. The soil profile from a pit excavated to a depth of 20 inches consisted of a 10YR 4/1 (100%) loamy/clayey layer from 0 to 20 inches. The soil profile examined at this location did not meet any hydric soil indicators; therefore, hydric soil is not present. Although this data point was taken within an NWI wetland, only one of the three wetland criteria were present; therefore, this data point is not within a wetland.

Negative Data Point N3

This data point represents non-wetland conditions within the western portion of the survey area within an NWI wetland (Page A12). No sapling/shrub or woody vine strata were identified within the plot area. The dominant species within the tree stratum is common hackberry (*Celtis occidentalis*, FAC). The dominant species within the herb stratum is white paniced American-aster (*Symphiotrichum lanceolatum*, FAC). The plant community passes the dominance test (100%) for hydrophytic vegetation; therefore, hydrophytic vegetation is present and no further vegetation analysis is required. Only one secondary indicator of hydrology, FAC-neutral test (D5), was observed. Therefore, wetland hydrology is not present. The USDA NRCS Web Soil Survey indicates that this data point is within the Genesee silt loam unit. The Genesee series is not considered to be a hydric soil. The soil profile from a pit excavated to a depth of 20 inches consisted of a 10YR 4/1 (100%) loamy/clayey layer from 0 to 20 inches. The soil profile examined at this location did not meet any hydric soil indicators; therefore, hydric soil is not present. Although this data point was taken within an NWI wetland, only one of the three wetland criteria were present; therefore, this data point is not within a wetland.



Data Point Summary Table
Stotts Creek 2 Mitigation Site in Morgan County, Indiana

Data Point	Vegetation	Soils	Hydrology	Wetland
AW1	Yes	Yes	Yes	Yes
AD1	Yes	No	No	No
BW1	Yes	Yes	Yes	Yes
BD1	Yes	No	No	No
N1	Yes	No	Yes	No
N2	Yes	No	No	No
N3	Yes	No	No	No

Wetland Summary Table
Stotts Creek 2 Mitigation Site in Morgan County, Indiana

Wetland Name	Photos	Lat/Long	Type	Total Area (acres)	Quality	Likely Waters of U.S.?
Wetland A	8-11,13,16	39.506826°N 86.326524°W	PFO1A	0.54	Average	Yes
Wetland B	32-33	39.509477°N 86.322197°W	PEM1E	0.06	Poor	Yes

Conclusions

The May 13, 2020 field review for the Stotts Creek 2 Mitigation Site project identified two wetland features (Wetlands A and B) and four stream features (West Fork of White River, Stotts Creek, UNT1 to West Fork of White River, and UNT2 to West Fork of White River) within the survey area. Both wetlands (Wetland A and Wetland B) convey drainage to the West Fork of White River, a TNW. Wetland A would be classified as palustrine, forested, broad-leaved deciduous, temporarily flooded (PFO1A). Wetland B would be classified as palustrine emergent, persistent, seasonally flooded/saturated (PEM1E). The West Fork of White River is a TNW. Stotts Creek, UNT1 to West Fork of White River, and UNT2 to West Fork of White River are RPWs with a direct connection to the West Fork of White River. The *U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook* (U.S. Army Corps of Engineers 2007) states “TNWs; all wetlands adjacent to TNWs; non-navigable tributaries of TNWs that are relatively permanent and wetlands that directly abut such tributaries” are subject to Clean Water Act (CWA) jurisdiction only if a significant nexus is demonstrated. Therefore, Wetlands A and B, Stotts Creek, UNT1 to West Fork of White River, and UNT2 to West Fork of White River have a significant nexus with a TNW and are considered jurisdictional features. West Fork of White River is considered jurisdictional due to its status as a TNW.



Wetlands A and B, West Fork of White River, Stotts Creek, UNT1 to West Fork of White River, and UNT2 to West Fork of White River are likely Waters of the U.S. Every effort should be taken to avoid and minimize impacts to stream and wetland features. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

Acknowledgement

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.

Holly Hume



Environmental Biologist
Lochmueller Group, Inc.

Preparers

Lochmueller Group, Inc. Staff	Position	Contributing Effort
Brenten Reust, PWS	Environmental Biologist	Field Data Collection Report Preparation
Holly Hume	Environmental Biologist	Field Data Collection Report Preparation



Attachments





Legend

- Survey Area

Hydric Classification

- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 - 65%)
- Hydric (1 - 32%)
- Not Hydric (0%)

Aerial Source: Orthophotography of Indiana 2016
 Soil Survey: Soil Survey Geographic (SSURGO) database for Morgan County, Indiana


Indiana Office of Information Technology, Indiana University Spatial Data Portal, UJTS, Woolpert Inc.



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 Phone: (317) 222-3880
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SSURGO Soil Map
 Des. No. 1801387
 Waters of the U.S. Report

0 300 600
 Feet



County: Morgan
 Township: Clay & Green
 State: Indiana

I-69 Section 6
 Stotts Creek 2 Mitigation Site
 Created: 7/13/2020, H.Hume

Hydric Rating by Map Unit

Report—Hydric Soil List - All Components

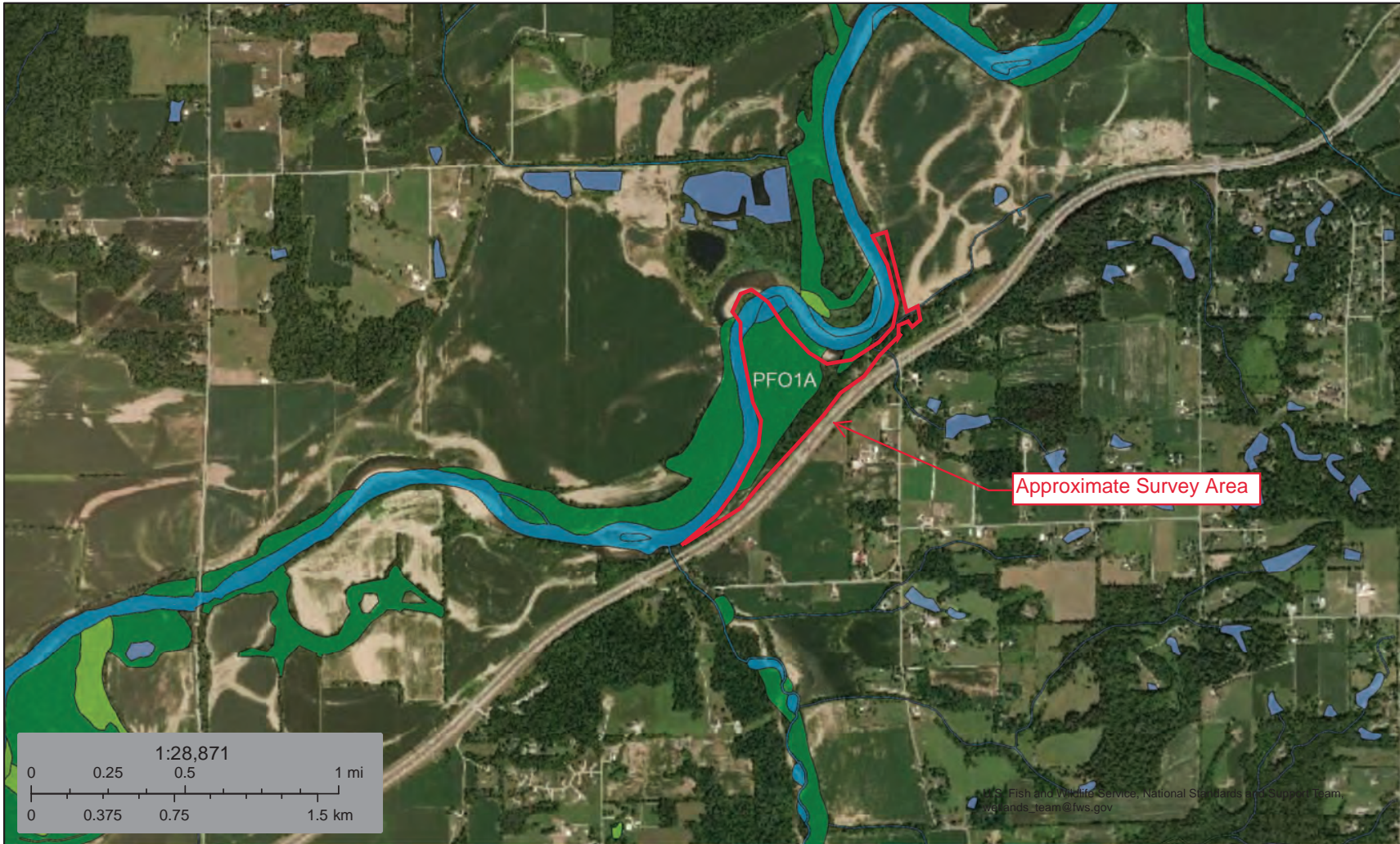
Hydric Soil List - All Components—IN109-Morgan County, Indiana					
Map s mbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
BfG: Berks channery silt loam, 35 to 80 percent slopes	Berks	100	Hills	No	—
Ge: Genesee silt loam, 0 to 2 percent slopes, frequently flooded, brief duration	Genesee	85-95	Flood-plain steps,natural levees,flood plains	No	—
	Eel	3-5	Flood-plain steps	No	—
	Shoals	0-5	Flood plains	No	—
	Stonelick	0-5	Flood plains	No	—
	Armiesburg	0-5	Flood-plain steps	No	—
	GpD: Gilpin silt loam, 12 to 18 percent slopes	Gilpin	100	Hills	No
PrB: Princeton fine sandy loam, 2 to 6 percent slopes	Princeton	100	Dunes	No	—
PrC: Princeton fine sandy loam, 6 to 12 percent slopes	Princeton	100	Dunes	No	—
PrD: Princeton fine sandy loam, 12 to 18 percent slopes	Princeton	100	Dunes	No	—
St: Stonelick sandy loam, 0 to 2 percent slopes, frequently flooded	Stonelick-Frequently flooded	85-100	Flood plains	No	—
	Shoals-Frequently flooded	0-5	Flood plains	No	—
	Sloan-Frequently flooded	0-5	Meander scars on flood plains,backswamps on flood plains,flood-plain steps on flood plains	Yes	2
	Chagrin-Frequently flooded	0-5	Flood plains	No	—
W: Water	Water	100-100	—	No	—

Data Source Information

Soil Survey Area: Morgan County, Indiana
 Survey Area Data: Version 26, Jun 8, 2020



Stotts Creek 2 Mitigation Site (Des. No. 1801387)



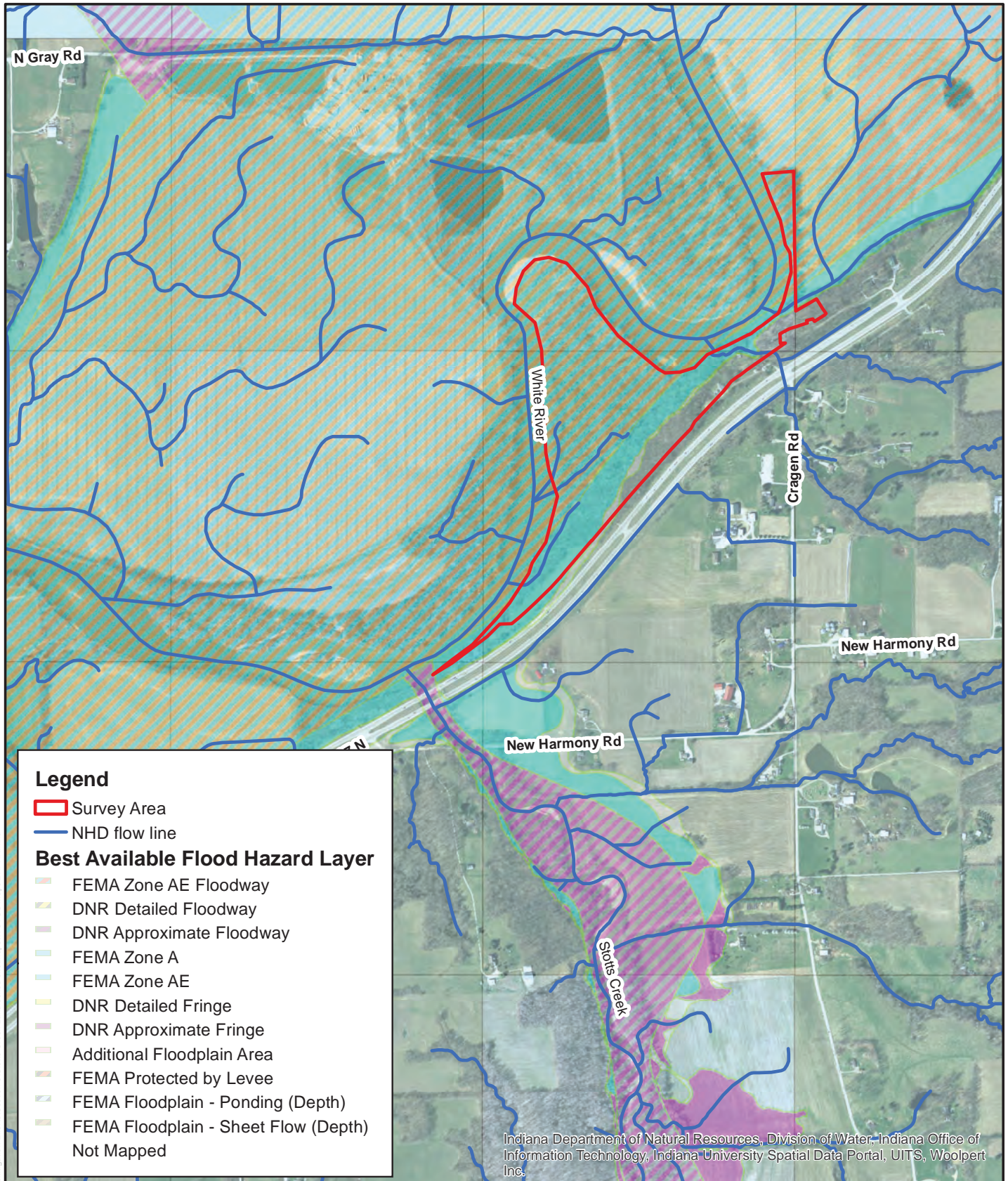
June 1, 2020

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.

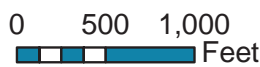


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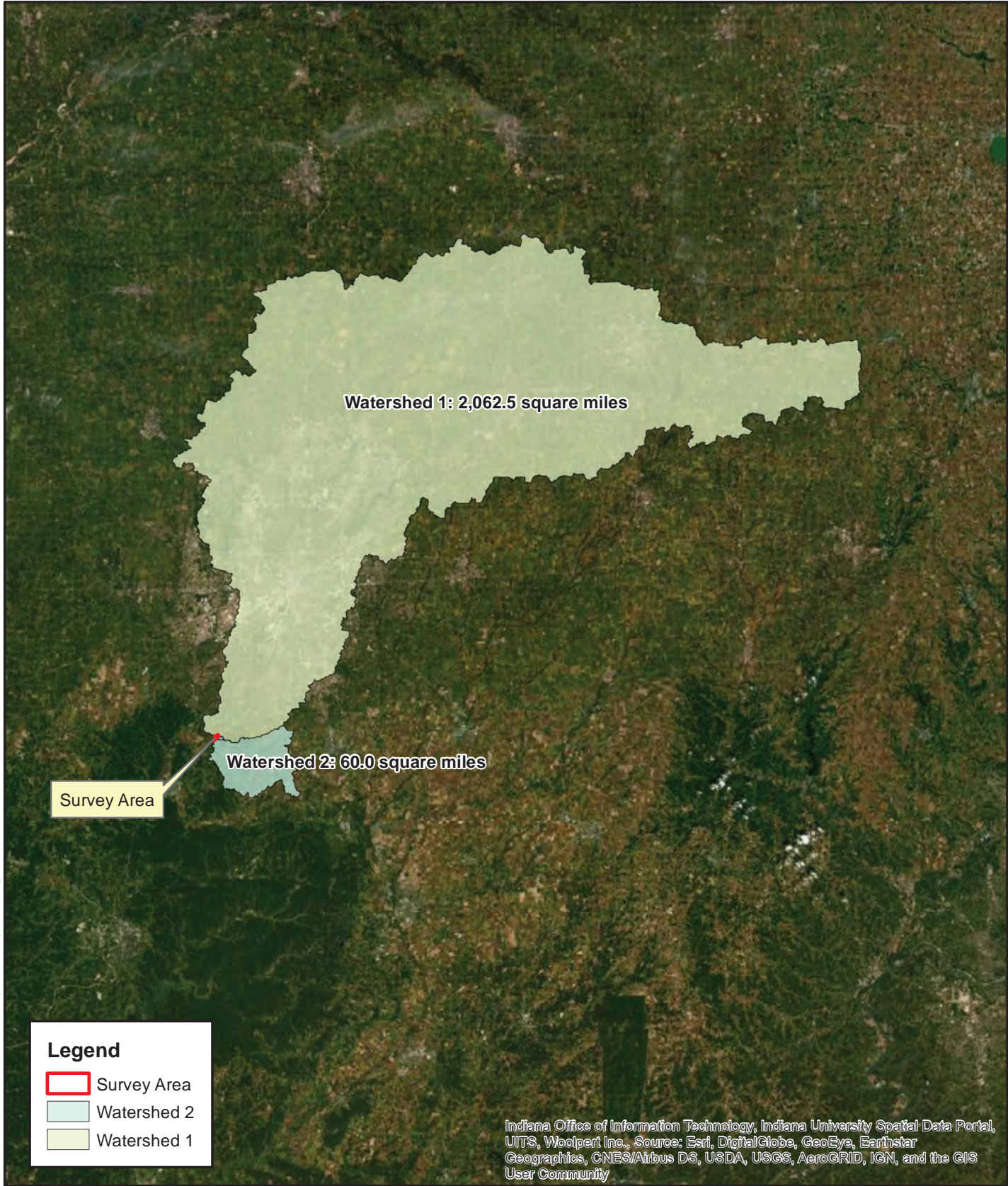


Best Available Flood Hazard
Des. No. 1801387
Waters of the U.S. Report

County: Morgan
 Township: Clay & Green
 State: Indiana



I-69 Section 6
 Stotts Creek 2 Mitigation Site
 Created: 6/12/2020, H.Hume



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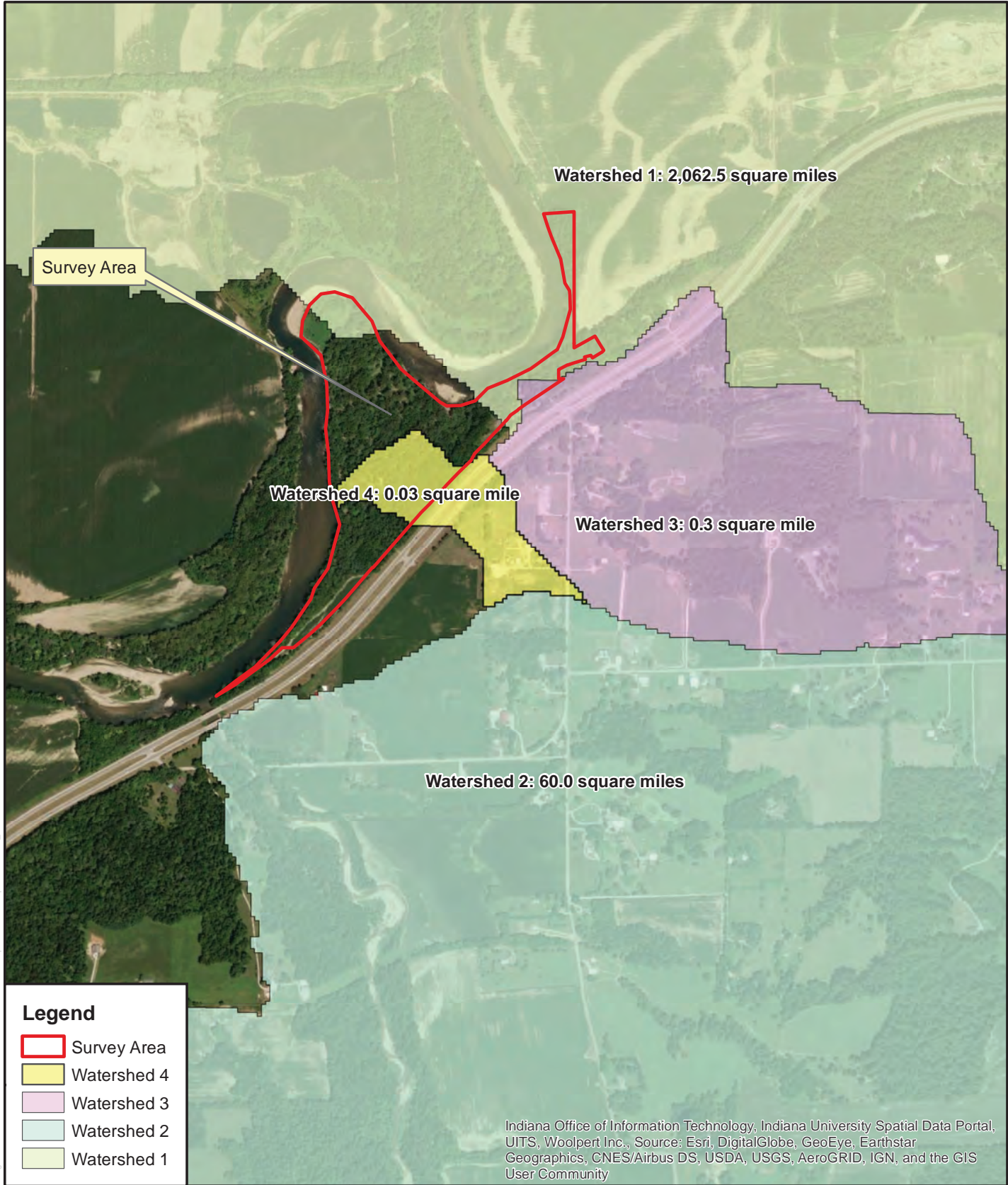


StreamStats Map (1 of 2)
 Des. No. 1801387
 Waters of the U.S. Report






County: Morgan
 Township: Clay & Green
 State: Indiana



I-69 Section 6
 Stotts Creek 2 Mitigation Site
 Created: 7/13/2020, H.Hume



Legend

-  Survey Area
-  Watershed 4
-  Watershed 3
-  Watershed 2
-  Watershed 1

Indiana Office of Information Technology, Indiana University Spatial Data Portal, UITS, Woolpert Inc., Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



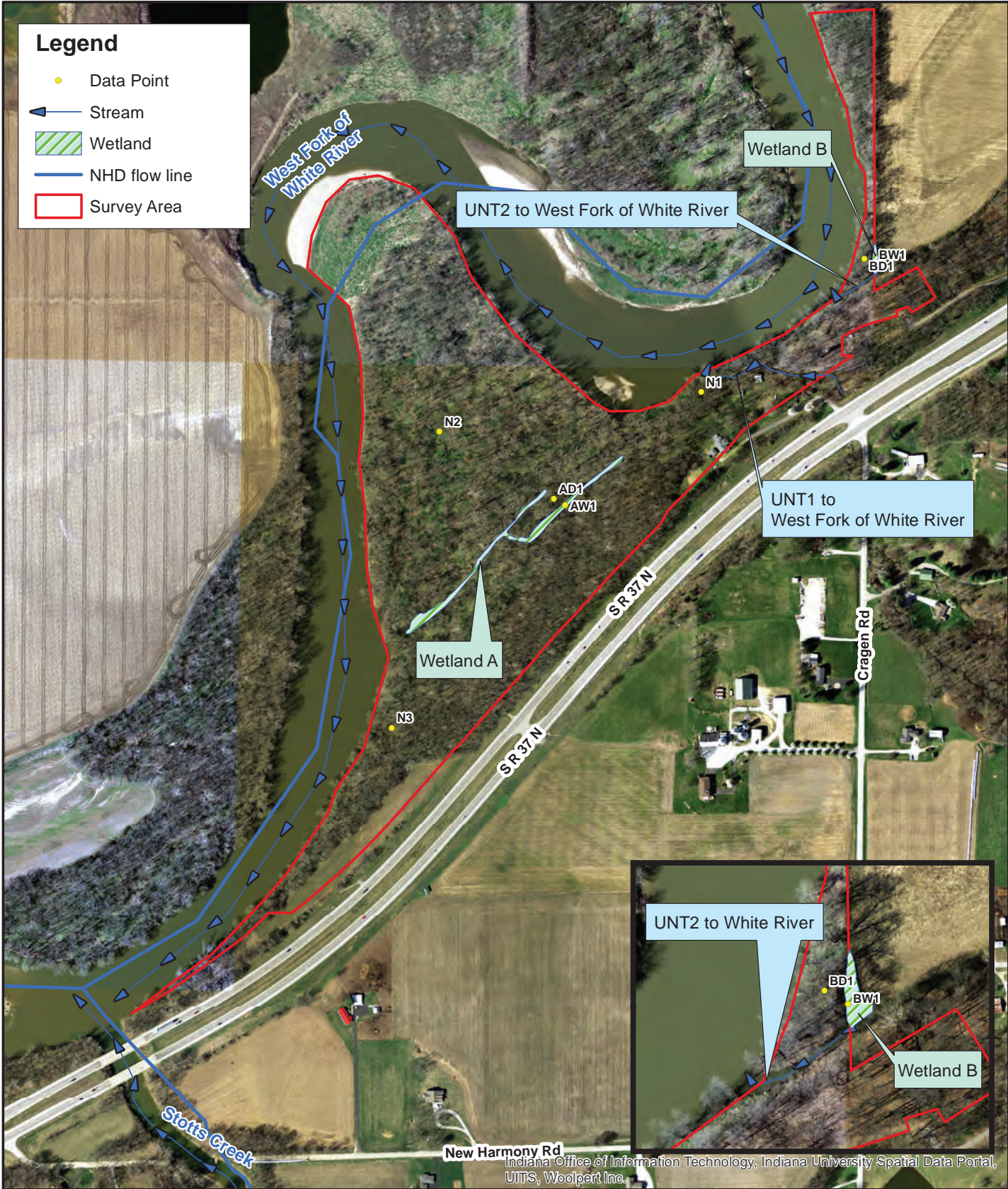
StreamStats Map (2 of 2)
 Des. No. 1801387
 Waters of the U.S. Report

County: Morgan
 Township: Clay & Green
 State: Indiana



I-69 Section 6
 Stotts Creek 2 Mitigation Site
 Created: 6/12/2020, H.Hume

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Legend

- Data Point
- ← Stream
- ▨ Wetland
- NHD flow line
- ▭ Survey Area

S:\E\NV\IRPR\103-0001\Mitigation\Efforts\Section 6\Maps\Water Resources\portrail.mxd

Indiana Office of Information Technology, Indiana University Spatial Data Portal, UITS, Woolpert Inc.

<p>LOCHMUELLER GROUP 6200 Vogel Road Evansville, Indiana 47715 PHONE: 812.474.6200 TOLL FREE: 800.423.7411</p>	<p>Water Resources Map Des. No. 1801387</p>	<p>County: Morgan Township: Clay & Green State: Indiana</p>
	<p>0 250 500 Feet</p>	<p>I-69 Section 6 Stotts Creek 2 Mitigation Site Created: 7/13/2020, H.Hume</p>

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Stott's Creek Mitigation City/County: Morgan Sampling Date: 5/13/2020
 Applicant/Owner: Indiana Department of Transportation State: IN Sampling Point: AW1
 Investigator(s): B. Reust, H. Hume Section, Township, Range: Sec 4, Twp 12N, Rng 2E
 Landform (hillside, terrace, etc.): floodplain Local relief (concave, convex, none): concave
 Slope (%): 0.5 Lat: 39.506826 Long: -86.326524 Datum: NAD 1983
 Soil Map Unit Name: Genesee silt loam NWI classification: PFO1A

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>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
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Remarks:
 This data piont was taken within the White River floodplain.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u>Populus deltoides</u>	<u>10</u>	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2.	<u>Acer saccharinum</u>	<u>5</u>	Yes	FACW	
3.	_____				
4.	_____				
5.	_____				
		<u>15</u>	=Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>15ft radius</u>)				
1.	_____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2.	_____				
3.	_____				
4.	_____				
5.	_____				
			=Total Cover		
Herb Stratum	(Plot size: <u>5ft radius</u>)				
1.	<u>Eupatorium serotinum</u>	<u>4</u>	Yes	FAC	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	<u>Persicaria lapathifolia</u>	<u>2</u>	Yes	FACW	
3.	<u>Rorippa sylvestris</u>	<u>2</u>	Yes	OBL	
4.	_____				
5.	_____				
6.	_____				
7.	_____				
8.	_____				
9.	_____				
10.	_____				
		<u>8</u>	=Total Cover		
Woody Vine Stratum	(Plot size: <u>30ft radius</u>)				
1.	_____				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
2.	_____				
			=Total Cover		

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

SOIL

Sampling Point: AW1

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 ¹	Loc ²		
0-8	10YR 4/1	70	10YR 3/6	30	C	M	Loamy/Clayey	Prominent redox concentrations
8-11	10YR 4/3	100					Sandy	
11-20	10YR 5/4	100					Sandy	

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

²Location: PL=Pore Lining, M=Matrix.

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

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:
 This area is mapped as Genesee silt loam which is not listed as a hydric soil by USDA NRCS. A Depleted Matrix (F3) hydric soil indicator was observed.

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 checked="" 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 checked="" 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 checked="" 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 checked="" 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)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>9</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>6</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 This wetland data point contains two primary and three secondary wetland hydrology indicators.



AW1 soil pit



AW1 soil profile

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Stott's Creek Mitigation City/County: Morgan Sampling Date: 5/13/2020
 Applicant/Owner: Indiana Department of Transportation State: IN Sampling Point: AD1
 Investigator(s): B. Reust, H. Hume Section, Township, Range: Sec 4, Twp 12N, Rng 2E
 Landform (hillside, terrace, etc.): floodplain Local relief (concave, convex, none): convex
 Slope (%): 0.5 Lat: 39.506893 Long: -86.326682 Datum: NAD 1983
 Soil Map Unit Name: Genesee silt loam NWI classification: PFO1A

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

Remarks:
 This data piont was taken within the White River floodplain.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. <u>Acer saccharinum</u>	30	Yes	FACW	
2. <u>Acer negundo</u>	15	Yes	FAC	
3. <u>Celtis occidentalis</u>	5	No	FAC	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	50 =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	_____ =Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Phalaris arundinacea</u>	30	Yes	FACW	
2. <u>Persicaria lapathifolia</u>	20	Yes	FACW	
3. <u>Elymus riparius</u>	10	Yes	FACW	
4. <u>Viola sororia</u>	10	Yes	FAC	
5. <u>Urtica dioica</u>	5	No	FACW	
6. <u>Rudbeckia laciniata</u>	5	No	FACW	
7. <u>Humulus japonicus</u>	5	No	FACU	
8. <u>Galium aparine</u>	5	No	FACU	
9. <u>Persicaria longiseta</u>	5	No	FAC	
10. <u>Symphotrichum lanceolatum</u>	5	No	FAC	
	100 =Total Cover			
Woody Vine Stratum (Plot size: <u>30ft radius</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	_____ =Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.)
 Photos (8-11,13,16)

SOIL

Sampling Point: AD1

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 ¹	Loc ²		
0-20	10YR 4/1	100					Loamy/Clayey	

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

²Location: PL=Pore Lining, M=Matrix.

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

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:
This area is mapped as Genesee silt loam which is not listed as a hydric soil by USDA NRCS. A hydric soil indicator was not observed.

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)	

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
This data point contains one secondary wetland hydrology indicator.



AD1 soil pit



AD1 soil profile

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Stott's Creek Mitigation City/County: Morgan Sampling Date: 5/13/2020
 Applicant/Owner: Indiana Department of Transportation State: IN Sampling Point: BW1
 Investigator(s): B. Reust, H. Hume Section, Township, Range: Sec 4, Twp 12N, Rng 2E
 Landform (hillside, terrace, etc.): floodplain Local relief (concave, convex, none): concave
 Slope (%): 0.5 Lat: 39.509477 Long: -86.322197 Datum: NAD 1983
 Soil Map Unit Name: Genesee silt loam NWI classification: non-wetland

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

Remarks:
 This data piont was taken within the White River floodplain.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
		=Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>15ft radius</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
1.	_____				
2.	_____				
3.	_____				
4.	_____				
5.	_____				
		=Total Cover			
Herb Stratum	(Plot size: <u>5ft radius</u>)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Packera glabella</u>	40	Yes	FACW	
2.	<u>Symphotrichum lanceolatum</u>	20	Yes	FAC	
3.	<u>Phalaris arundinacea</u>	20	Yes	FACW	
4.	_____				
5.	_____				
6.	_____				
7.	_____				
8.	_____				
9.	_____				
10.	_____				
		80 =Total Cover			
Woody Vine Stratum	(Plot size: <u>30ft radius</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1.	_____				
2.	_____				
		=Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.)
 Photos (32-33)

SOIL

Sampling Point: BW1

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 ¹	Loc ²		
0-6	10YR 3/1	100					Loamy/Clayey	
6-20	10YR 3/1	95	10YR 4/6	5	C	M	Loamy/Clayey	Prominent redox concentrations

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

This area is mapped as Genesee silt loam which is not listed as a hydric soil by USDA NRCS. A Redox Darksurface (F6) hydric soil indicator was observed.

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 checked="" 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 checked="" 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) | |

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? Yes No Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

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

Remarks:

This wetland data point contains three secondary wetland hydrology indicators.



BW1 soil pit



BW1 soil profile

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Stott's Creek Mitigation City/County: Morgan Sampling Date: 5/13/2020
 Applicant/Owner: Indiana Department of Transportation State: IN Sampling Point: BD1
 Investigator(s): B. Reust, H. Hume Section, Township, Range: Sec 4, Twp 12N, Rng 2E
 Landform (hillside, terrace, etc.): floodplain Local relief (concave, convex, none): convex
 Slope (%): 0.5 Lat: 39.509537 Long: -86.322328 Datum: NAD 1983
 Soil Map Unit Name: Genesee silt loam NWI classification: non-wetland

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

Remarks:
 This data piont was taken within the White River floodplain.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. <u>Acer saccharinum</u>	<u>60</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Acer negundo</u>	<u>15</u>	<u>Yes</u>	<u>FAC</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>75</u> =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </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>5ft radius</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Urtica dioica</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Ambrosia trifida</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Elymus riparius</u>	<u>5</u>	<u>No</u>	<u>FACW</u>	
4. <u>Symphytichum lanceolatum</u>	<u>2</u>	<u>No</u>	<u>FAC</u>	
5. <u>mpatiens capensis</u>	<u>2</u>	<u>No</u>	<u>FACW</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>79</u> =Total Cover			
Woody Vine Stratum (Plot size: <u>30ft radius</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u> </u>	<u> </u>	<u> </u>	<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.)
 Photos ()

SOIL

Sampling Point: BD1

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 ¹	Loc ²		
0-8	10YR 3/1	100					Loamy/Clayey	
8-20	10YR 4/1	100					Loamy/Clayey	

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<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 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)	

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:
This area is mapped as Genesee silt loam which is not listed as a hydric soil by USDA NRCS. A hydric soil indicator was not observed.

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)	

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
This data point contains one secondary wetland hydrology indicator.



BD1 soil pit



BD1 soil profile

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Stott's Creek Mitigation City/County: Morgan Sampling Date: 5/13/2020
 Applicant/Owner: Indiana Department of Transportation State: IN Sampling Point: N1
 Investigator(s): B. Reust, H. Hume Section, Township, Range: Sec 4, Twp 12N, Rng 2E
 Landform (hillside, terrace, etc.): floodplain Local relief (concave, convex, none): none
 Slope (%): 0.5 Lat: 39.505072 Long: -86.324617 Datum: NAD 1983
 Soil Map Unit Name: Genesee silt loam NWI classification: PFO1A

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

Remarks:
 This data piont was taken within the White River floodplain.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. <u>Ulmus rubra</u>	50	Yes	FAC	
2. <u>Acer negundo</u>	40	Yes	FAC	
3. <u>Acer saccharinum</u>	10	No	FACW	
4. <u> </u>				
5. <u> </u>				
	100 =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1. <u>Acer negundo</u>	5	Yes	FAC	
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
	5 =Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Symphytichum lanceolatum</u>	25	Yes	FAC	
2. <u>Elymus riparius</u>	20	Yes	FACW	
3. <u>Rudbeckia laciniata</u>	10	Yes	FACW	
4. <u>Urtica dioica</u>	10	Yes	FACW	
5. <u>Viola sororia</u>	10	Yes	FAC	
6. <u>mpatiens capensis</u>	10	Yes	FACW	
7. <u>Ambrosia trifida</u>	5	No	FAC	
8. <u>Stellaria media</u>	2	No	FACU	
9. <u>Chaerophyllum procumbens</u>	2	No	FACW	
10. <u>Persicaria longiseta</u>	2	No	FAC	
	96 =Total Cover			
Woody Vine Stratum (Plot size: <u>30ft radius</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u> </u>				
2. <u> </u>				
	=Total Cover			

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

SOIL

Sampling Point: N1

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 ¹	Loc ²		
0-20	10YR 3/2	100					Loamy/Clayey	

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<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 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)	

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:
This area is mapped as Genesee silt loam which is not listed as a hydric soil by USDA NRCS. A hydric soil indicator was not observed.

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 checked="" 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)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
This data point contains one primary and one secondary wetland hydrology indicators.



N1 Soil pit



N1 soil profile

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Stott's Creek Mitigation City/County: Morgan Sampling Date: 5/13/2020
 Applicant/Owner: Indiana Department of Transportation State: IN Sampling Point: N2
 Investigator(s): B. Reust, H. Hume Section, Township, Range: Sec 5, Twp 12N, Rng 2E
 Landform (hillside, terrace, etc.): floodplain Local relief (concave, convex, none): none
 Slope (%): 0.5 Lat: 39.507616 Long: -86.3283 Datum: NAD 1983
 Soil Map Unit Name: Genesee silt loam NWI classification: PFO1A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:
 This data piont was taken within the White River floodplain.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. <u>Acer saccharinum</u>	<u>70</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Acer negundo</u>	<u>10</u>	<u>No</u>	<u>FAC</u>	
3. <u>Celtis occidentalis</u>	<u>2</u>	<u>No</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>82</u> =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
1. <u>Acer negundo</u>	<u>2</u>	<u>No</u>	<u>FAC</u>	
2. <u>Celtis occidentalis</u>	<u>2</u>	<u>No</u>	<u>FAC</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>4</u> =Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Rudbeckia laciniata</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Urtica dioica</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Rudbeckia laciniata</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	
4. <u>Sanicula odorata</u>	<u>10</u>	<u>No</u>	<u>FAC</u>	
5. <u>Elymus riparius</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	
6. <u>icaria erna</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	
7. <u>Ambrosia trifida</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	
8. <u>Viola sororia</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	
9. <u>Ranunculus aborti us</u>	<u>2</u>	<u>No</u>	<u>FACW</u>	
10. <u>Alliaria petiolata</u>	<u>2</u>	<u>No</u>	<u>FAC</u>	
	<u>99</u> =Total Cover			
Woody Vine Stratum (Plot size: <u>30ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	_____ =Total Cover			

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

SOIL

Sampling Point: N2

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 ¹	Loc ²		
0-20	10YR 4/1	100					Loamy/Clayey	

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

This area is mapped as Genesee silt loam which is not listed as a hydric soil by USDA NRCS. A hydric soil indicator was not observed.

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) | |

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? Yes No Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

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

Remarks:

This data point contains one secondary wetland hydrology indicator.



N2 soil pit



N2 soil profile

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Stott's Creek Mitigation City/County: Morgan Sampling Date: 5/13/2020
 Applicant/Owner: Indiana Department of Transportation State: IN Sampling Point: N3
 Investigator(s): B. Reust, H. Hume Section, Township, Range: Sec 5, Twp 12N, Rng 2E
 Landform (hillside, terrace, etc.): floodplain Local relief (concave, convex, none): none
 Slope (%): 0.5 Lat: 39.504379 Long: -86.328942 Datum: NAD 1983
 Soil Map Unit Name: Genesee silt loam NWI classification: PFO1A

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> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
---	--

Remarks:
 This data piont was taken within the White River floodplain.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30ft radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Celtis occidentalis</u>	60	Yes	FAC	Dominance Test worksheet: 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>Acer saccharinum</u>	5	No	FACW	
3. <u>Ulmus rubra</u>	5	No	FAC	
4. <u>Acer negundo</u>	5	No	FAC	
5. <u> </u>	75	=Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1. <u> </u>				
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
Herb Stratum (Plot size: <u>5ft radius</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Symphytichum lanceolatum</u>	60	Yes	FAC	
2. <u>Phalaris arundinacea</u>	10	No	FACW	
3. <u>Rudbeckia laciniata</u>	10	No	FACW	
4. <u>icaria erna</u>	5	No	FAC	
5. <u>Ambrosia trifida</u>	1	No	FAC	
6. <u>Packera glabella</u>	1	No	FACW	
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>	87	=Total Cover		
Woody Vine Stratum (Plot size: <u>30ft radius</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u> </u>				
2. <u> </u>				

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

SOIL

Sampling Point: N3

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 ¹	Loc ²		
0-20	10YR 4/1	100					Loamy/Clayey	

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)

- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

This area is mapped as Genesee silt loam which is not listed as a hydric soil by USDA NRCS. A hydric soil indicator was not observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): _____
 Saturation Present? Yes No Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

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

Remarks:

This data point contains one secondary wetland hydrology indicator.



N3 soil pit



N3 soil profile

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: July 13, 2020

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Holly Hume, 6200 Vogel Road, Evansville, IN

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

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

State: **Indiana** County/parish/borough: **Morgan** City: **N/A**

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

Lat.: **39.506979** Long.: **-86.327088**

Universal Transverse Mercator: **16S 557851 4373255**

Name of nearest waterbody: **West Fork of White River**

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)
West Fork of White River	39.509360°N	-86.329497°W	6,418 linear feet (45.53 acres)	non-wetland	Section 10/404
Stotts Creek	39.500996°N	-86.329608°W	71 linear feet (0.17 acre)	non-wetland	Section 404
UNT1 to West Fork of Wh	39.508322°N	-86.323625°W	544 linear feet (0.14 acre)	non-wetland	Section 404
UNT2 to West Fork of Wh	39.509222°N	-86.322451°W	196 linear feet (0.04 acre)	non-wetland	Section 404
Wetland A	39.506826°N	-86.326524°W	0.54 acre	wetland	Section 404
Wetland B	39.509477°N	-86.322197°W	0.06 acre	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: Location maps, topographic map, aerial map, floodplain map, NWI map.
- 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: _____.
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: Mooresville East 1:24,000.
- Natural Resources Conservation Service Soil Survey. Citation: <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>.
- National wetlands inventory map(s). Cite name: <https://www.fws.gov/wetlands/Data/Mapper.html>.
- State/local wetland inventory map(s): _____.
- FEMA/FIRM maps: _____.
- 100-year Floodplain Elevation is: 591 feet (nearest BFE) (National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): Indiana Office of Information Technology 2016
 or Other (Name & Date): Ground photos May 13 and June 4, 2020.
- 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

Holly Hume Digitally signed by Holly Hume
Date: 2020.07.13 14:35:51 -05'00'

Signature and date of
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

¹ 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.

Holly Hume

From: Rehder, Crystal <CRehder@indot.IN.gov>
Sent: Monday, July 20, 2020 3:46 PM
To: Holly Hume
Cc: Flum, Sandra; Daniel Townsend; Jeremy Kieffner
Subject: Approved: Des 1801387 Waters of the U.S. Report; I-69 Section 6 Stotts Creek 2 Mitigation Site
Attachments: 1801387 waters report approved 7-20-2020.pdf

Thank you for submitting the waters report for I-69 Section 6 Stotts Creek 2 Mitigation Site, Morgan County, Designation 1801397. The approved report is attached and can also be found on Projectwise through this link: [1801387 waters report approved 7-20-2020.pdf](#). *It is the responsibility of the Project Manager to forward a copy of this report to the Project Designer.*

The information in this report should be used by the Project Designer to determine if waters of the U.S. will be impacted by the project. Avoidance and minimization of impacts must occur *before* mitigation will be considered. If mitigation is required, the Project Manager or Project Designer must coordinate with the Ecology and Waterway Permitting Office to discuss how adequate compensatory mitigation will be provided.

The Project Manager should notify the Ecology and Waterway Permitting Office if there is any change to the project footprint presented in this report. Such changes may require additional fieldwork and submittal of an updated waters report covering areas not previously investigated. *This report is only valid for a period of five years from the date of earliest fieldwork.* If the report expires prior to waterway permit application submittal, additional fieldwork and a revised waters report will be required.

It will not be sent to the United States Army Corps of Engineers (USACE) or the Indiana Department of Environmental Management (IDEM) until the waterways permit applications are submitted to these agencies.

Crystal Rehder

Team Lead, Ecology and Waterway Permitting
INDOT Environmental Services
100 N Senate Ave IGCN 642-ES
Indianapolis, IN 46204
(317) 233-2062



From: Holly Hume <HHume@lochgroup.com>
Sent: Monday, July 13, 2020 4:05 PM
To: INDOT Coordinator 7 <indotcoordinator7@indot.IN.gov>
Cc: Flum, Sandra <SFlum@indot.IN.gov>; Rehder, Crystal <CRehder@indot.IN.gov>; Daniel Townsend <DTownsend@lochgroup.com>
Subject: FW: Multiple File Upload Tool (MFUT) Confirmation - Des 1801387 Draft Waters of the U.S. Report; I-69 Section 6 Stotts Creek 2 Mitigation Site

****** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ******

Dear Coordinator 7,

Categorical Exclusion
Appendix G
Public Involvement

To be updated upon completion of public involvement

Categorical Exclusion
Appendix H
Air Quality

STIP FINANCIAL SUMMARY FOR 2020 thru 2024

TOTAL RESOURCES:	Estimated FY2020	Estimated FY2021	Estimated FY2022	Estimated FY2023	Estimated FY2024
State Federal-aid FHWA fund ¹	\$ 893,500,000	\$ 832,200,000	\$ 822,500,000	\$ 822,500,000	\$ 822,500,000
Federal Grant fund ²		\$ 40,000,000			
Local Federal-aid FHWA Funds	\$ 251,870,993	\$ 251,870,993	\$ 251,870,993	\$ 251,870,993	\$ 251,870,993
Local Federal-aid FHWA Earmarks	\$ 2,703,789	\$ -	\$ 169,957	\$ 2,205,934	
Subtotal of Federal-aid FHWA funds =	\$ 1,148,074,782	\$ 1,124,070,993	\$ 1,074,540,950	\$ 1,076,576,927	\$ 1,074,370,993
Subtotal of Federal-aid FTA funds =	\$ 22,750,000	\$ 22,750,000	\$ 22,750,000	\$ 22,750,000	\$ 22,750,000
State Highway Funds	\$ 1,529,100,000	\$ 1,600,600,000	\$ 1,385,100,000	\$ 1,461,569,832	\$ 1,572,443,307
State Highway Road Construction Improvement Fund	\$ 70,000,000	\$ 70,000,000	\$ 70,000,000	\$ 70,000,000	\$ 70,000,000
Crossroads Fund	\$ 37,424,962	\$ 38,361,149	\$ 38,522,360	\$ 38,658,097	\$ 38,865,469
Subtotal of State funds =	\$ 1,636,524,962	\$ 1,708,961,149	\$ 1,493,622,360	\$ 1,570,227,929	\$ 1,681,308,776
Subtotal of Local Highway funds =	\$ 63,643,696	\$ 62,967,748.25	\$ 63,010,237.50	\$ 63,519,231.75	\$ 62,967,748.25
Total of All Available Resources	\$ 2,870,993,440	\$ 2,918,749,890	\$ 2,653,923,548	\$ 2,733,074,088	\$ 2,841,397,517

TOTAL USES: FY2020 - FY2024

Local Programs

Local MPO and non-MPO projects	\$ 318,218,478	\$ 314,838,741	\$ 315,051,188	\$ 317,596,159	\$ 314,838,741
FTA programs	\$ 22,750,000	\$ 22,750,000	\$ 22,750,000	\$ 22,750,000	\$ 22,750,000
Subtotal of Local Uses =	\$ 340,968,478	\$ 337,588,741	\$ 337,801,188	\$ 340,346,159	\$ 337,588,741

INDOT Programs & Special Projects	Estimated 2020	Estimated 2021	Estimated 2022	Estimated 2023	Estimated 2024
Preservation & Expansion projects	\$ 1,496,388,654	\$ 1,441,894,101	\$ 720,826,304	\$ 875,685,298	\$ 157,949,564
Ohio River Bridges (ORB) ³	\$ 42,215,205	\$ 40,195,576	\$ 41,200,479	\$ 42,230,496	\$ 43,286,251
I-69 Section 5 ⁴	\$ 1,390,100	\$ 301,000	\$ 598,200	\$ 100,100	\$ 100,100
I-69 Section 6 ⁵	\$ 214,656,602	\$ 250,533,903	\$ 333,720,048	\$ 246,855,213	\$ 203,352,465
Operating Budget	\$ 415,366,195	\$ 419,366,195			
Debt Service	\$ 101,200,000	\$ 101,900,000			
Subtotal of INDOT Uses =	\$ 2,271,216,756	\$ 2,254,190,775	\$ 1,096,345,031	\$ 1,164,871,107	\$ 404,688,380

Costs yet to be identified from future needs and illustrative information	\$ 258,808,206	\$ 326,970,374	\$ 1,219,777,329	\$ 1,227,856,822	\$ 2,099,120,396
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Total of All Uses **\$ 2,870,993,440** **\$ 2,918,749,890** **\$ 2,653,923,548** **\$ 2,733,074,088** **\$ 2,841,397,517**

1. State Federal-aid FHWA funds reflects State/Local Sharing of Federal Formula Apportionments for FFY 2020 is \$755,612,280 plus price favorability and carry over.
2. US Department of Transportation's Better Utilizing Investments to Leverage Development (BUILD) grant - INDOT grant awards totaling \$40 million for Interstate expansion projects on I-65
3. Source for 2020: Table 4-1 of ORB Financial Plan Annual Update, 2018.
<https://www.in.gov/indot/files/Update%20to%20Financial%20Plan%20September2017.pdf>
4. Estimated 2020 - 2024 funds include Availability Payments. AP schedule is Exhibit 9 of the PPA.
<http://www.in.gov/ifa/2779.htm>.
5. Estimated costs have changed since 2020-2024 STIP approval due to increased activity from acceleration. 2018 includes \$11.5M of State funds for real estate early acquisitions.

MPO Indianapolis Metropolitan Planning Organization
Planning the Transportation Future for the Indianapolis Region

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I-69 Section 6 - SR 39 to I-465 (0300382)

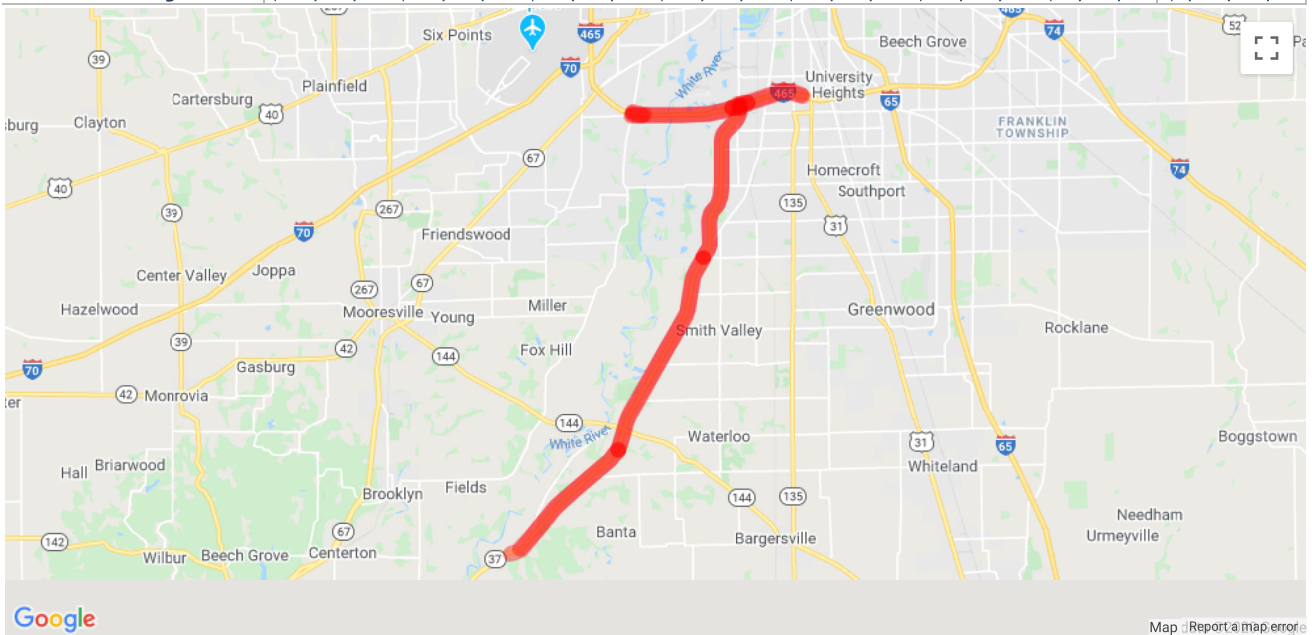
<i>Des Number</i>	0300382	<i>Amendment</i>	20-00 TIP	<i>Exempt Category</i>	Non-Exempt	<i>Est Total Project Cost</i>	\$1,427,636,953
<i>Lead Agency</i>	INDOT	<i>Contact (ERC)</i>	Sarah Rubin 3172345282	<i>INDOT District</i>	Greenfield, Seymour	<i>County</i>	Johnson, Marion, Morgan Johnson Co., Marion Co., Morgan Co.
<i>Project Type</i>	New Road Construction	<i>Letting Date</i>	/	<i>Functional Classification</i>	Interstate	<i>Bike/Ped Component(s)</i>	No

Title I-69 Section 6 - SR 39 to I-465

Limits From Martinsville to Indianapolis of Distance (mile) 26 Milepost begins at 0 ends at 0

Description The I-69 from Evanville to Indianapolis will be completed with the construction of the final section from Indian Creek south of SR 39 to I-465. This final section converts existing SR 37 to I-69 between Indian Creek in Martinsville and I-465 in Indianapolis. Interchanges along I-69 will be constructed at SR 39, Ohio Street, SR 252/SR 44, Henderson Ford Road, SR 144, Smith Valley Road, County Line Road, Southport Road, Epler Avenue, and I-465. I-69 will have two lanes in each direction between Indian Creek south of SR 39 and Olive Branch Road, three lanes in each direction between Olive Branch Road and Southport Road, and four lanes in each direction between Southport Road and I-465. I-465 will be improved between Mann Road and US 31 by adding one through lane in each direction as well as auxiliary lanes where needed.

Phase	Fund Source	Prior SFY	SFY2020	SFY2021	SFY2022	SFY2023	SFY2024	Future SFY	Total
PE	FEDERAL - NHPP	\$15,565,000	\$29,242,434	\$19,629,756	\$1,639,030	\$742,857	-	-	\$66,819,077
PE	STATE - Other	\$3,891,250	\$7,310,609	\$4,907,439	\$409,758	\$185,714	-	-	\$16,704,770
<i>Total Preliminary Engineering</i>		\$19,456,250	\$36,553,043	\$24,537,195	\$2,048,788	\$928,571	-	-	\$83,523,847
RW	FEDERAL - NHPP	\$42,964,946	\$48,223,359	\$45,132,043	\$137,931	-	-	-	\$136,458,279
RW	STATE - Other	\$10,741,237	\$12,055,840	\$11,283,011	\$34,483	-	-	-	\$34,114,571
<i>Total Right of Way</i>		\$53,706,183	\$60,279,199	\$56,415,054	\$172,414	-	-	-	\$170,572,850
CN	FEDERAL - NHPP	\$34,437,866	\$80,397,329	\$124,173,238	\$257,284,791	\$196,634,914	\$162,681,972	\$57,542,095	\$913,152,205
CN	STATE - Other	\$8,609,466	\$20,099,332	\$31,043,310	\$64,321,198	\$49,158,728	\$40,670,493	\$14,385,524	\$228,288,051
<i>Total Construction</i>		\$43,047,332	\$100,496,661	\$155,216,548	\$321,605,989	\$245,793,642	\$203,352,465	\$71,927,619	\$1,141,440,256
CE	FEDERAL - NHPP	\$1,440,000	\$4,715,790	\$11,809,925	\$7,714,286	-	-	-	\$25,680,001
CE	STATE - Other	\$360,000	\$1,178,947	\$2,952,481	\$1,928,571	-	-	-	\$6,419,999
<i>Total Construction Engineering</i>		\$1,800,000	\$5,894,737	\$14,762,406	\$9,642,857	-	-	-	\$32,100,000
Total Programmed		\$118,009,765	\$203,223,640	\$250,931,203	\$333,470,048	\$246,722,213	\$203,352,465	\$71,927,619	\$1,427,636,953





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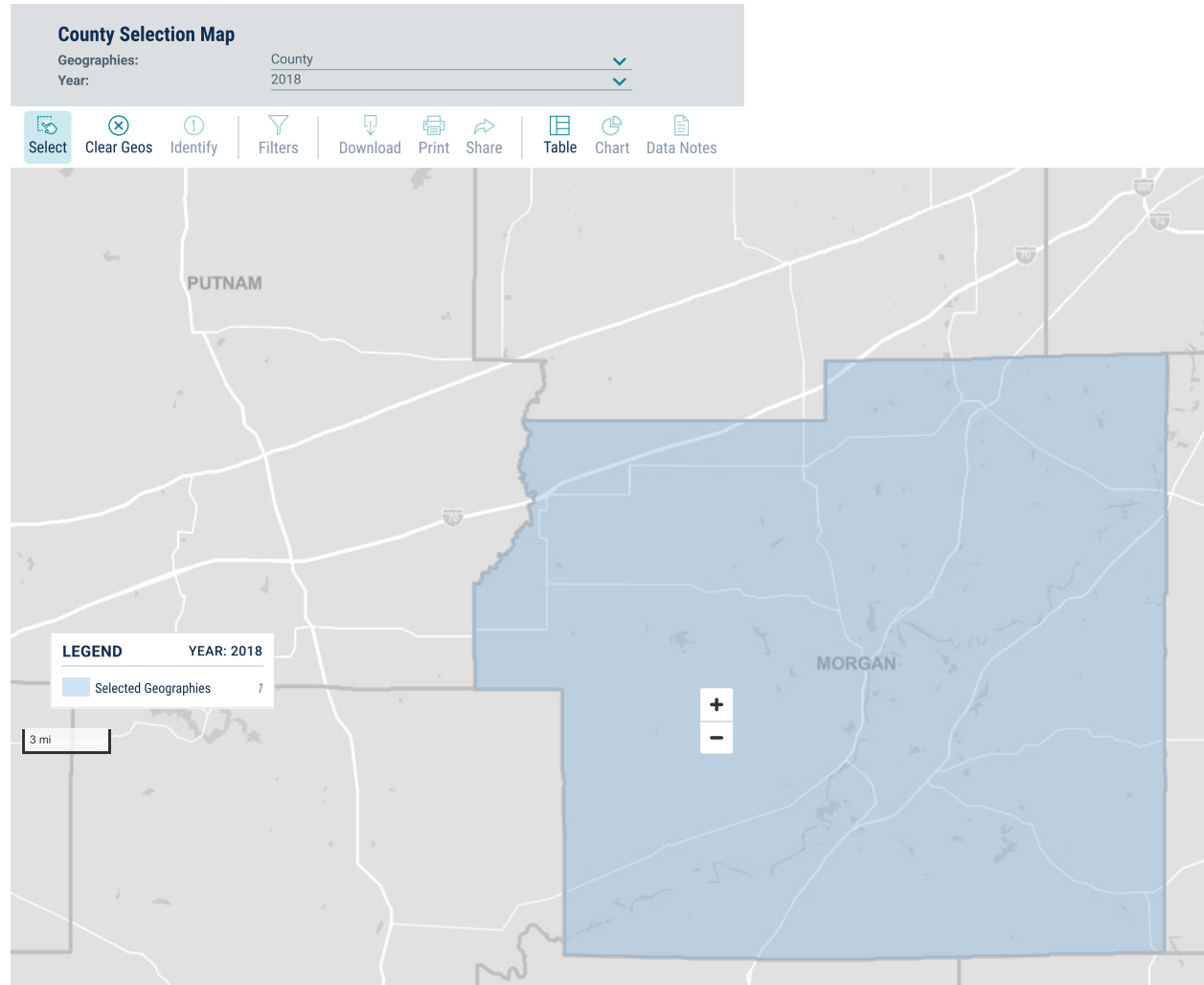
I-69 Section 6 - SR 39 to I-465 (0300382)

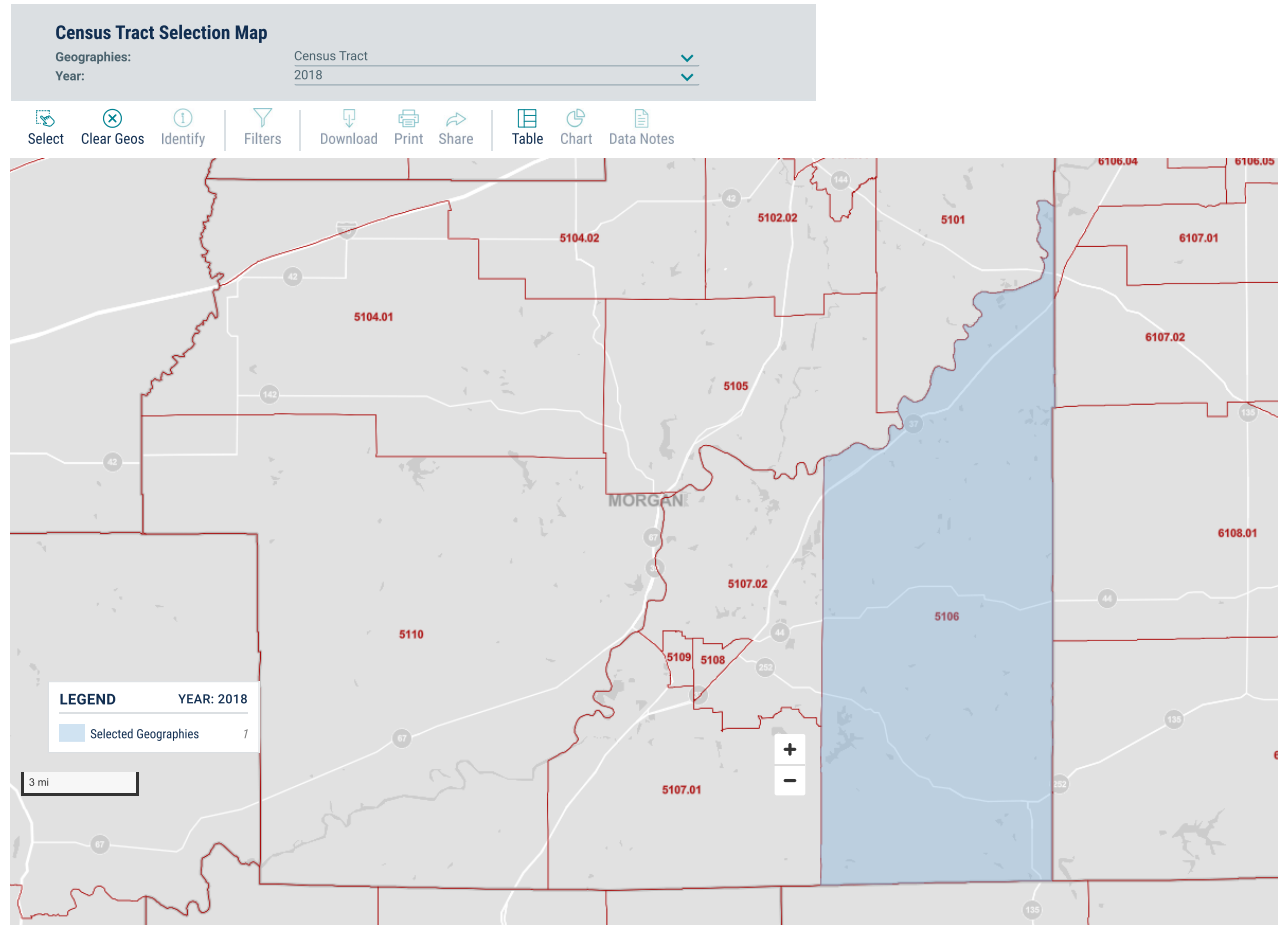
VERSION	PROJECT TITLE	STATUS	APPROVAL DATE	
-743	35-00 Q2 2015 LRTP	I-69 Indy to Evansville	Programmed	2/25/2015
1	18-01 Q3 2017 INDOT	I-69 Section 6 - SR 39 to I-465	Programmed	10/2/2017
2	18-03 Q4S 2017 INDOT	I-69 Section 6 - SR 39 to I-465	Programmed	1/25/2018
3	20-00 2020-2023 TIP	I-69 Section 6 - SR 39 to I-465	Programmed	7/2/2019

Categorical Exclusion
Appendix I
Other

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

ProjectNumber	SubProjectCode	County	Property
1800480	1800480	Montgomery	Darlington Old School Park
1800110	1800110	Morgan	Pioneer Park
1800327	1800327G	Morgan	Morgan-Monroe
1800491	1800491	Morgan	Pioneer Park
1800576	1800576	Morgan	White River Greenway
1800405	1800405Y	Newton	Willow Slough Fish and Wildlife Area
1800002	1800002	Noble	Chain O'Lakes State Park
1800118	1800118A	Noble	Chain O' Lakes
1800135	1800135	Noble	Noble Co. Fairgrounds, Kendallville Fair Grounds
1800161	1800161G	Noble	Chain O' Lakes State Park
1800171	1800171B	Noble	Chain O' Lakes State Park
1800305	1800305H	Noble	Chain O' Lakes State Park
1800312	1800312B	Noble	Chain O' Lakes State Park
1800319	1800319	Noble	G. Martin Kenney Memorial Park
1800327	1800327C	Noble	Chain O' Lakes State Park
1800353	1800353	Noble	Kelly St. Park
1800358	1800358	Noble	Avilla Park
1800363	1800363D	Noble	Chain O' Lakes State Park
1800369	1800369E	Noble	Gaff Park, Mainland Park
1800378	1800378A	Noble	Chain O' Lakes State Park
1800391	1800391	Noble	Cromwell Community Park
1800405	1800405B	Noble	Big Lake Public Access Site
1800405	1800405AA	Noble	Crane Lake Public Access Site
1800405	1800405J	Noble	Eagle Lake Wetland Conservation Area
1800405	1800405T	Noble	Rome City Wetlands Fish and Wildlife Area
1800405	1800405U	Noble	Smalley Lake Public Access Site
1800413	1800413J	Noble	Chain O' Lakes State Park
1800492	1800492	Noble	Hidden Diamonds Community Park
1800513	1800513	Noble	Hidden Diamonds Community Park
1800007	1800007	Owen	McCormick's Creek State Park
1800022	1800022	Owen	McCormick's Creek State Park
1800049	1800049	Owen	McCormick's Creek State Park
1800161	1800161I	Owen	McCormick's Creek State Park
1800171	1800171G	Owen	McCormick's Creek State Park
1800312	1800312H	Owen	McCormick's Creek State Park
1800363	1800363R	Owen	McCormick's Creek State Park
1800378	1800378C	Owen	McCormick's Creek State Park
1800413	1800413N	Owen	McCormick's Creek State Park
1800431	1800431	Owen	McCormick's Creek State Park







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.

	Morgan County, Indiana		Census Tract 5106, Morgan County, Indiana	
	Estimate	Margin of Error	Estimate	Margin of Error
∨ Total:	68,318	+/-379	8,126	+/-359
∨ Income in the past 12 months below poverty level:	7,717	+/-978	913	+/-396
∧ Male:	3,051	+/-450	245	+/-119
∧ Female:	4,666	+/-659	668	+/-355
∨ Income in the past 12 months at or above poverty level:	60,601	+/-989	7,213	+/-542
∧ Male:	30,811	+/-507	3,835	+/-342
∧ Female:	29,790	+/-634	3,378	+/-316



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.

	Morgan County, Indiana		Census Tract 5106, Morgan County, Indiana	
	Estimate	Margin of Error	Estimate	Margin of Error
∨ Total:	69,727	*****	8,325	+/-294
∨ Not Hispanic or Latino:	68,674	*****	8,253	+/-299
White alone	67,069	+/-11	8,205	+/-305
Black or African American alone	212	+/-82	0	+/-16
American Indian and Alaska Native alone	46	+/-44	0	+/-16
Asian alone	485	+/-80	0	+/-16
Native Hawaiian and Other Pacific Islander alone	0	+/-27	0	+/-16
Some other race alone	12	+/-21	0	+/-16
∨ Two or more races:	850	+/-128	48	+/-60
Two races including Some other race	27	+/-28	0	+/-16
Two races excluding Some other race, and three or more races	823	+/-128	48	+/-60
∨ Hispanic or Latino:	1,053	*****	72	+/-49
White alone	911	+/-82	57	+/-46
Black or African American alone	0	+/-27	0	+/-16
American Indian and Alaska Native alone	0	+/-27	0	+/-16
Asian alone	20	+/-31	0	+/-16
Native Hawaiian and Other Pacific Islander alone	0	+/-27	0	+/-16
Some other race alone	97	+/-72	15	+/-17
∨ Two or more races:	25	+/-36	0	+/-16
Two races including Some other race	25	+/-36	0	+/-16
Two races excluding Some other race, and three or more races	0	+/-27	0	+/-16

2018 American Community Survey 5-Year Estimates

		<u>COC</u>	<u>AC</u>
		Morgan County, Indiana	Census Tract 5106, Morgan County, Indiana
B17001	Low-Income		
001	Population for whom poverty status is determined: Total	68,318	8,126
002	Population for whom poverty status is determined: Income in past 12 months below poverty level	7,717	913
	Percent Low-income (002/001 x 100)	11.30%	11.24%
	125 Percent of COC	14.12%	AC < 125% COC
	Potential Low-income EJ Impact?		No

B03002	Minority		
001	Total Population: Total	69,727	8,325
002	Total Population: Not Hispanic or Latino	68,674	8,253
003	Total Population: Not Hispanic or Latino; White alone	67,069	8,205
004	Total Population: Not Hispanic or Latino; Black or African American alone	212	0
005	Total Population: Not Hispanic or Latino; American Indian and Alaska Native alone	46	0
006	Total Population: Not Hispanic or Latino; Asian alone	485	0
007	Total Population: Not Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	0	0
008	Total Population: Not Hispanic or Latino; Some other race alone	12	0
009	Total Population: Not Hispanic or Latino; Two or more races	850	48
010	Total Population: Hispanic or Latino	1,053	72
011	Total Population: Hispanic or Latino; White alone	911	57
012	Total Population: Hispanic or Latino; Black or African American alone	0	0
013	Total Population: Hispanic or Latino; American Indian and Alaska Native alone	0	0
014	Total Population: Hispanic or Latino; Asian alone	20	0
015	Total Population: Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	0	0
016	Total Population: Hispanic or Latino; Some other race alone	97	15
017	Total Population: Hispanic or Latino; Two or more races	25	0
	Number Non-white/minority (001-003)	2,658	120
	Percent Non-white/Minority (001-003/001 x 100)	3.81%	1.44%
	125 Percent of COC	4.77%	AC < 125% COC
	Potential Minority EJ Impact?		No