

# AREA PLAN COMMISSION

OF TIPPECANOE COUNTY

20 NORTH 3RD STREET  
LAFAYETTE, INDIANA 47901-1209

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[www.tippecanoe.in.gov/apc](http://www.tippecanoe.in.gov/apc)

SALLIE DELL FAHEY  
EXECUTIVE DIRECTOR

Date: January 14, 2014

Re: RED FLAG INVESTIGATION  
DES # TBD  
Sagamore Parkway  
Road Reconstruction  
Lafayette, Tippecanoe County, Indiana

## NARRATIVE

Sagamore Parkway is a principal arterial and will be reconstructed from Beech Street to SR 38. The city has agreed to assume responsibility for a portion of Sagamore Parkway. INDOT developed reconstruction plans and purchased land for the improvements. The city is now refining the design and will also assume responsibility for reconstruction. The design will retain two travel lanes in each direction with improvements at each intersection. Sidewalks will also be added to both sides of the road.

## SUMMARY

INFRASTRUCTURE			
As identified below the following items of concern were found within ½ mile:			
Religious Facilities	1	Recreational Facilities	N/A
Airports	N/A	Pipelines	9
Cemeteries	1	Railroads	13
Hospitals	1	Trails	3
Schools	N/A	Managed Lands	3

Bethany Church on Greenbush is the only religious facility identified in INDOT provided data.

Nine natural gas pipelines are within ½ mile of the project area. Several will be directly affected and will require prior coordination with Vectren.

Resthaven Memorial Park, on the west side of the project just south of Greenbush, is the only cemetery within ½ mile of the project. The entire cemetery is within the ½ mile project radius.

Thirteen segments of railroad track are within ½ mile of the project. They are owned by the Belt Railway and operated by Norfolk Southern.

One hospital, Lafayette Family Physicians, was identified in the INDOT data. It is also identified as a clinic. The location shown is the former Home Hospital site so verification may be required. This use does not appear to be in the immediate project area.

There are three trails in the ½ mile radius: Greenbush-Munger, Munger Park Trail and Mulberry to Pintail. None are in the immediate project area.

Three managed land areas are within ½ mile, at Hedgewood, Munger and North Darby parks. Munger Park is closest to the immediate construction area.

<b>WATER RESOURCES</b>			
As identified below the following items of concern were found within ½ mile:			
NWI - Points	<b>N/A</b>	NWI - Wetlands	<b>21</b>
Karst Springs	<b>N/A</b>	IDEM 303d Listed Lakes	<b>N/A</b>
Canal Structures – Historic	<b>N/A</b>	Lakes	<b>7</b>
NWI - Lines	<b>N/A</b>	Floodplain - DFIRM	<b>N/A</b>
IDEM 303d Listed Rivers and Streams (Impaired)	<b>N/A</b>	Cave Entrance Density	<b>N/A</b>
Rivers and Streams	<b>7</b>	Sinkhole Areas	<b>N/A</b>
Canal Routes - Historic	<b>N/A</b>	Sinking-Stream Basins	<b>N/A</b>

INDOT provided data indicates seven rivers or streams within ½ mile of the project. One is a ditch at the southeast end of the project. The rest are associated with the south fork of Wildcat Creek.

Twenty-one wetland areas were identified within ½ mile. Most of these are part of Wildcat Creek, the lake at Munger Park or drainage areas.

Lakes included the lake at Munger Park and several drainage areas. One wetland area slightly south of Munger Park is roughly 350 feet from the project line. It is the only water resource closer than 500 feet.

<b>MINING/MINERAL EXPLORATION</b>			
As identified below the following items of concern were found within ½ mile:			
Petroleum Wells	<b>N/A</b>	Petroleum Fields	<b>N/A</b>
Mines – Surface	<b>N/A</b>	Mines – Underground	<b>N/A</b>

No mining or mineral exploration occurs within ½ mile of the project area.

<b>HAZMAT CONCERNS</b>			
As identified below the following items of concern were found within ½ mile:			
Brownfield Sites	<b>1</b>	Restricted Waste Sites	<b>N/A</b>
Corrective Action Sites (RCRA)	<b>N/A</b>	Septage Waste Sites	<b>N/A</b>
Confined Feeding Operations	<b>N/A</b>	Solid Waste Landfills	<b>N/A</b>
Construction Demolition Waste	<b>N/A</b>	State Cleanup Sites	<b>9</b>
Industrial Waste Sites (RCRA Generators)	<b>9</b>	Tire Waste Sites	<b>N/A</b>
Infectious/Medical Waste Sites	<b>N/A</b>	Waste Transfer Stations	<b>N/A</b>
Lagoon/Surface Impoundments	<b>N/A</b>	RCRA Waste Treatment, Storage, and Disposal Sites (TSDs)	<b>N/A</b>

Leaking Underground Storage Tanks (LUSTs)	<b>39</b>	Underground Storage Tanks	<b>24</b>
Manufactured Gas Plant Sites	<b>N/A</b>	Voluntary Remediation Program	<b>5</b>
NPDES Facilities	<b>3</b>	Superfund	<b>N/A</b>
NPDES Pipe Locations	<b>4</b>	Institutional Control Sites	<b>6</b>
Open Dump Sites	<b>1</b>	Other (see explanation)	<b>15</b>

There are many Hazmat concerns to be taken into consideration. There are 9 RCRA sites, 9 state cleanup sites, 39 LUST sites and 24 underground storage tanks.

One brownfield site is within ½ mile, at Kiel Brothers Oil Company.

One open dump site is within ½ mile of the project, at the Hamman Street tire dump.

All other types of hazards are scattered throughout the ½ mile buffer zone. Coordination with property owners will be complex and time consuming.

### **Ecological Information**

The Tippecanoe County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached. The ETR species on the state or federal registers are highlighted.

### **Cultural Resources**

No state- or federal-registered historic structures or districts within ½ mile of the project area.

### **RECOMMENDATIONS**

**INFRASTRUCTURE:** Natural gas lines and railroad tracks are the two most numerous infrastructure concern. Coordination with Vectren is necessary as multiple gas lines are in the immediate project area. Most of the railroads within ½ mile are owned by Lafayette Belt Railway and operated by Norfolk & Southern. Coordination with the railroad companies will be needed. Resthaven Memorial Park is the only other infrastructure feature close enough (~400 feet) to the project line to be potentially affected. Coordination with cemetery management may be necessary.

**WATER RESOURCES:** Only one wetland area slightly south of Munger Park is likely to be affected. Property owners should be contacted to discuss possible mitigation

**MINING/MINERAL EXPLORATION:** N/A

**HAZMAT CONCERNS:** There are many HAZMAT concerns throughout ½ mile buffer area and adjacent to the project. Coordination should include individual property owners, with higher priorities given to properties closer to the project line. Other efforts should be undertaken as the situation indicates.

**ECOLOGICAL INFORMATION:** See attached highlighted species list.

**CULTURAL RESOURCES:** N/A

Prepared by:  
Anna Burman

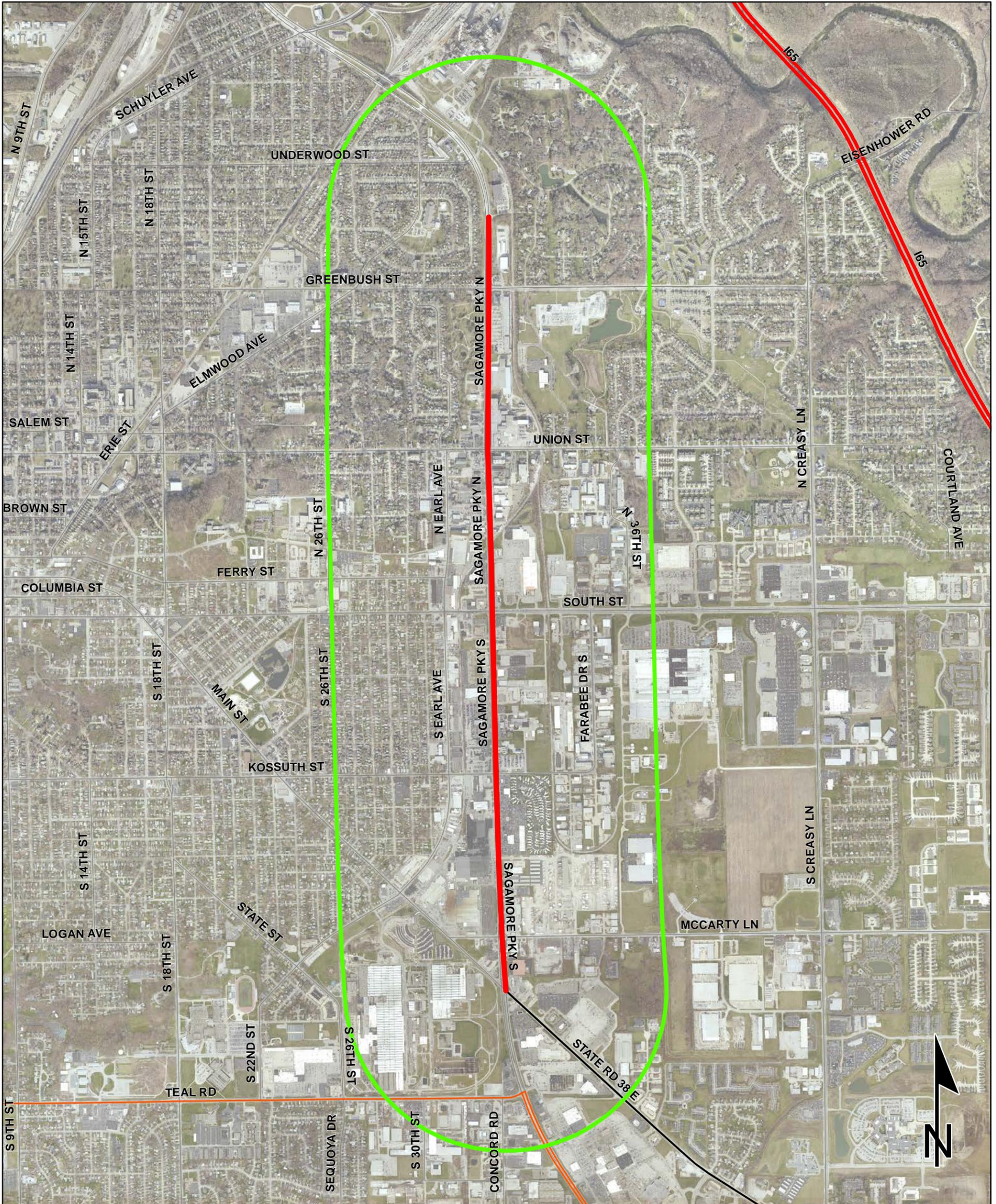
Transportation GIS Specialist  
Area Plan Commission of Tippecanoe County

# PROJECT AREA

## Sagamore Parkway

### Des. No. TBD, Road Reconstruction

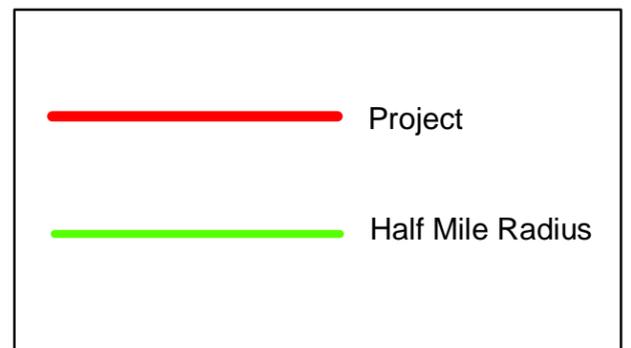
### Tippecanoe County, Indiana



**Sources:**  
**Non Orthophotography Data** - Obtained from the State of Indiana Geographical Information Office Library  
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83



## Project Area Map



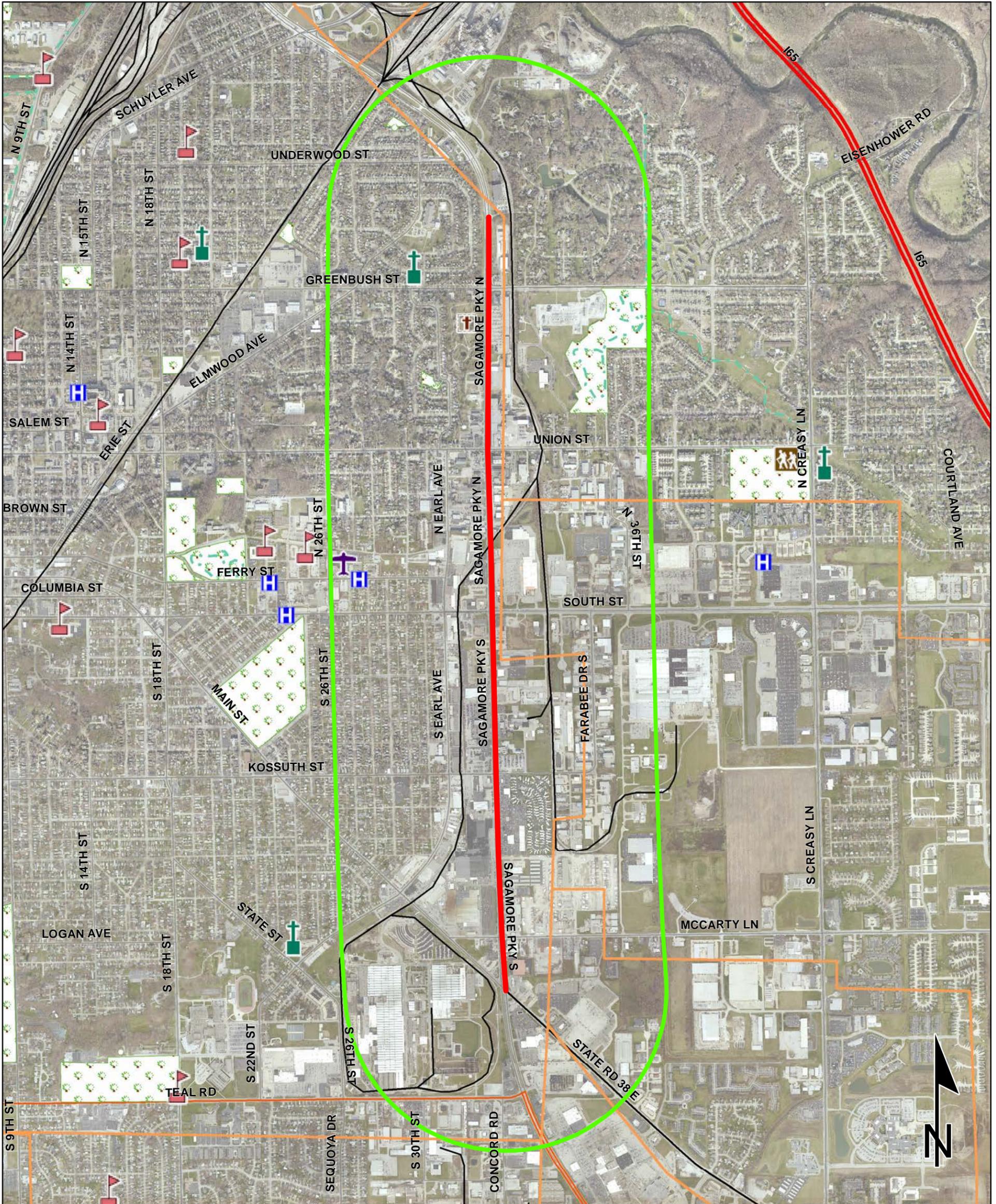
This map is intended to serve as an aid in graphic representation only and was provided by INDOT. This information is not warranted for accuracy or other purposes.

# INFRASTRUCTURE

## Sagamore Parkway

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### Infrastructure Legend

	Religious Bldg		Recreation		Project Area
	Religious Bldg		Pipeline		Half Mile Radius
	Airport		Railroad		Interstate
	Cemeteries		Trails		State Route
	Hospital		Managed Lands		US Route
	School		County Boundary		Local Road

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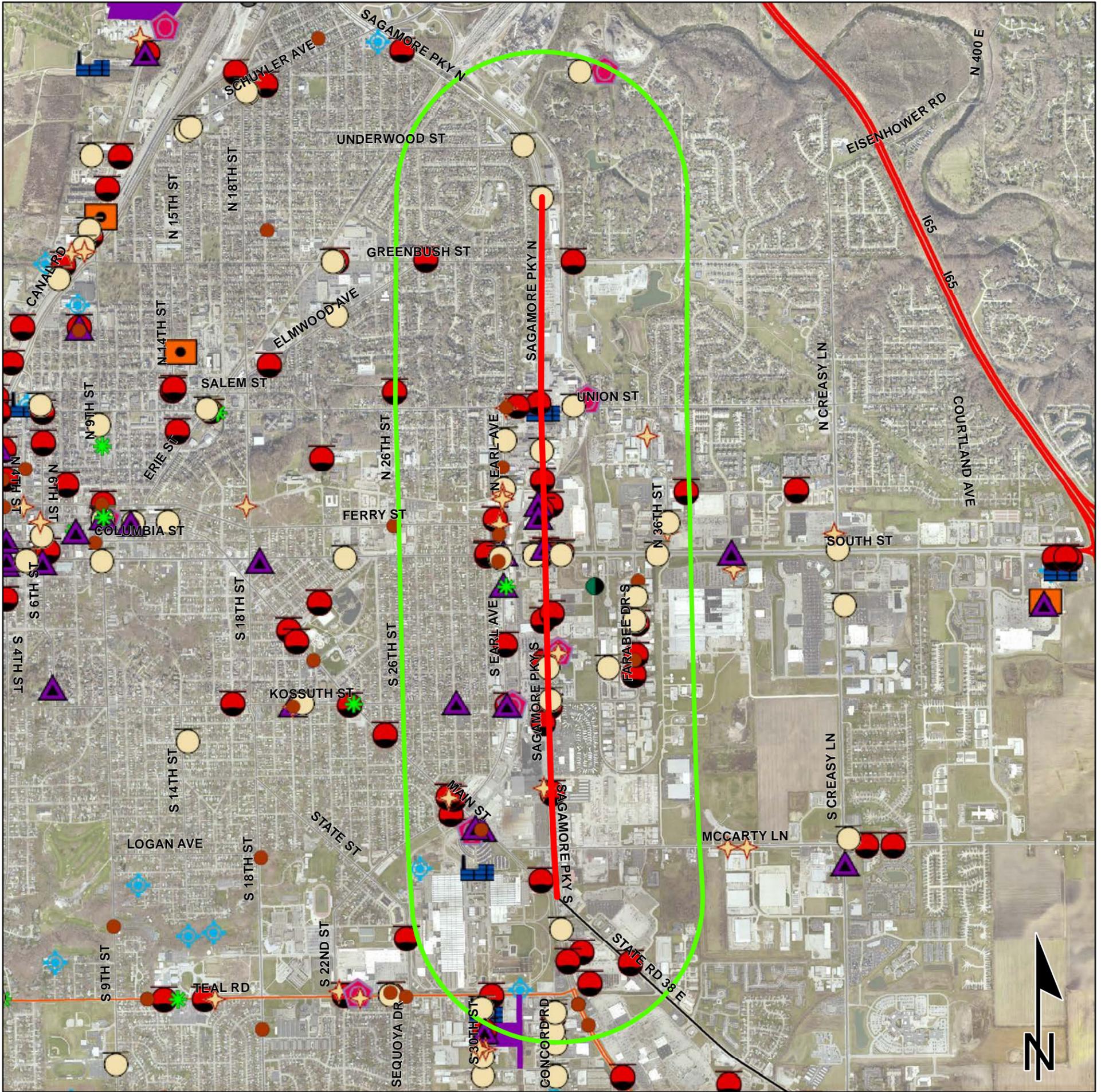


# HAZMAT CONCERNS

## Sagamore Parkway

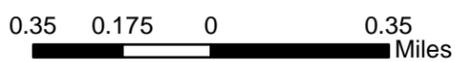
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### HazMat Concerns Legend

<ul style="list-style-type: none"> <li> Brownfield</li> <li> RCRA Corrective Action Sites</li> <li> Confined Feeding Operation</li> <li> Construction/Demolition Site</li> <li> Leaking Underground Storage Tank</li> <li> Manufactured Gas Plant</li> <li> NPDES Facilities</li> <li> NPDES Pipe Locations</li> <li> Open Dump Waste Site</li> <li> RCRA Generator/TSD</li> </ul>	<ul style="list-style-type: none"> <li> Restricted Waste Site</li> <li> Septage Waste Site</li> <li> Solid Waste Landfill</li> <li> State Cleanup Site</li> <li> Superfund</li> <li> Tire Waste Site</li> <li> Underground Storage Tank</li> <li> Unspecified Spill</li> <li> Voluntary Remediation Program</li> <li> Waste Transfer Station</li> </ul>	<ul style="list-style-type: none"> <li> Institutional Controls</li> <li> County Boundary</li> <li> Project Area</li> <li> Half Mile Radius</li> <li> Interstate</li> <li> State Route</li> <li> US Route</li> <li> Local Road</li> </ul>
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Indiana County Endangered, Threatened and Rare Species List

County: Tippecanoe

Species Name	Common Name	FED	STATE	GRANK	SRANK
<b>Mollusk: Bivalvia (Mussels)</b>					
Cyprogenia stegaria	Eastern Fanshell Pearlymussel	LE	SE	G1Q	S1
Epioblasma torulosa rangiana	Northern Riffleshell	LE	SE	G2T2	SX
Epioblasma torulosa torulosa	Tubercled Blossom	LE	SE	G2TX	SX
Epioblasma triquetra	Snuffbox	LE	SE	G3	S1
Fusconaia subrotunda	Longsolid		SE	G3	SX
Lampsilis fasciola	Wavyrayed Lampmussel		SSC	G5	S3
Lampsilis ovata	Pocketbook			G5	S2
Leptodea leptodon	Scaleshell	LE	SX	G1G2	SX
Ligumia recta	Black Sandshell			G5	S2
Obovaria retusa	Ring Pink	LE	SX	G1	SX
Obovaria subrotunda	Round Hickorynut		SSC	G4	S1
Plethobasus cicatricosus	White Wartyback	LE	SE	G1	SX
Plethobasus cyphus	Sheepnose	LE	SE	G3	S1
Pleurobema clava	Clubshell	LE	SE	G2	S1
Pleurobema cordatum	Ohio Pigtoe		SSC	G4	S2
Pleurobema plenum	Rough Pigtoe	LE	SE	G1	S1
Pleurobema rubrum	Pyramid Pigtoe		SE	G2G3	SX
Potamilus capax	Fat Pocketbook	LE	SE	G1G2	S1
Ptychobranchus fasciolaris	Kidneyshell		SSC	G4G5	S2
Quadrula cylindrica cylindrica	Rabbitsfoot	C	SE	G3G4T3	S1
Simpsonia ambigua	Salamander Mussel		SSC	G3	S2
Toxolasma lividus	Purple Lilliput		SSC	G3	S2
Villosa fabalis	Rayed Bean	LE	SSC	G2	S1
<b>Insect: Coleoptera (Beetles)</b>					
Lissobiops serpentinus	A Rove Beetle		SE	GNR	S1
<b>Insect: Ephemeroptera (Mayflies)</b>					
Paracloeodes minutus	A Small Minnow Mayfly		SR	G5	S2
<b>Insect: Lepidoptera (Butterflies &amp; Moths)</b>					
Speyeria idalia	Regal Fritillary		SE	G3	S1
<b>Insect: Mecoptera</b>					
Merope tuber	Earwig Scorpionfly		SE	G3G5	S1
<b>Insect: Odonata (Dragonflies &amp; Damselflies)</b>					
Erpetogomphus designatus	Eastern Ringtail		ST	G5	S2
Somatochlora tenebrosa	Clamp-tipped Emerald		SR	G5	S2S3
<b>Fish</b>					
Etheostoma tippecanoe	Tippecanoe Darter		SSC	G3G4	S3
<b>Amphibian</b>					
Hemidactylium scutatum	Four-toed Salamander		SSC	G5	S2

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<b>Reptile</b>					
<b>Clemmys guttata</b>	<b>Spotted Turtle</b>		<b>SE</b>	G5	S2
<b>Emydoidea blandingii</b>	<b>Blanding's Turtle</b>		<b>SE</b>	G4	S2
<b>Liochlorophis vernalis</b>	<b>Smooth Green Snake</b>		<b>SE</b>	G5	S2
Terrapene carolina carolina	Eastern Box Turtle		SSC	G5T5	S3
<b>Terrapene ornata ornata</b>	<b>Ornate Box Turtle</b>		<b>SE</b>	G5T5	S1
<b>Bird</b>					
Aimophila aestivalis	Bachman's Sparrow			G3	SXB
<b>Ammodramus henslowii</b>	<b>Henslow's Sparrow</b>		<b>SE</b>	G4	S3B
Ardea herodias	Great Blue Heron			G5	S4B
<b>Asio flammeus</b>	<b>Short-eared Owl</b>		<b>SE</b>	G5	S2
Asio otus	Long-eared Owl			G5	S2
Aythya collaris	Ring-necked Duck			G5	SHB
<b>Bartramia longicauda</b>	<b>Upland Sandpiper</b>		<b>SE</b>	G5	S3B
<b>Botaurus lentiginosus</b>	<b>American Bittern</b>		<b>SE</b>	G4	S2B
Buteo platypterus	Broad-winged Hawk	No Status	SSC	G5	S3B
Carduelis pinus	Pine Siskin			G5	S3N
<b>Cistothorus platensis</b>	<b>Sedge Wren</b>		<b>SE</b>	G5	S3B
<b>Dendroica cerulea</b>	<b>Cerulean Warbler</b>		<b>SE</b>	G4	S3B
<b>Falco peregrinus</b>	<b>Peregrine Falcon</b>	No Status	<b>SE</b>	G4	S2B
Grus canadensis	Sandhill Crane	No Status	SSC	G5	S2B,S1N
<b>Haliaeetus leucocephalus</b>	<b>Bald Eagle</b>	LT,PDL	<b>SSC</b>	G5	S2
<b>Ixobrychus exilis</b>	<b>Least Bittern</b>		<b>SE</b>	G5	S3B
<b>Lanius ludovicianus</b>	<b>Loggerhead Shrike</b>	No Status	<b>SE</b>	G4	S3B
<b>Nycticorax nycticorax</b>	<b>Black-crowned Night-heron</b>		<b>SE</b>	G5	S1B
<b>Rallus elegans</b>	<b>King Rail</b>		<b>SE</b>	G4	S1B
Sturnella neglecta	Western Meadowlark		SSC	G5	S2B
<b>Tyto alba</b>	<b>Barn Owl</b>		<b>SE</b>	G5	S2
<b>Mammal</b>					
Corynorhinus rafinesquii	Rafinesque's Big-eared Bat		SSC	G3G4	SH
Geomys bursarius	Plains Pocket Gopher		SSC	G5	S2
Lasiurus borealis	Eastern Red Bat		SSC	G5	S4
Mustela nivalis	Least Weasel		SSC	G5	S2?
Myotis septentrionalis	Northern Myotis		SSC	G4	S3
<b>Myotis sodalis</b>	<b>Indiana Bat or Social Myotis</b>	LE	<b>SE</b>	G2	S1
<b>Nycticeius humeralis</b>	<b>Evening Bat</b>		<b>SE</b>	G5	S1
Reithrodontomys megalotis	Western Harvest Mouse			G5	S2
<b>Spermophilus franklinii</b>	<b>Franklin's Ground Squirrel</b>		<b>SE</b>	G5	S2
Taxidea taxus	American Badger		SSC	G5	S2

**Vascular Plant**

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Indiana County Endangered, Threatened and Rare Species List

County: Tippecanoe

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Androsace occidentalis	Western Rockjasmine		ST	G5	S2
Arenaria patula	Pitcher's Stitchwort		SE	G4	S1
Aster oblongifolius	Aromatic Aster		SR	G5	S2
Astragalus tennesseensis	Tennessee Milk-vetch		SRE	G3	SX
Bacopa rotundifolia	Roundleaf Water-hyssop		ST	G5	S1
Besseyia bullii	Kitten Tails		SE	G3	S1
Botrychium matricariifolium	Chamomile Grape-fern		SR	G5	S2
Botrychium simplex	Least Grape-fern		SE	G5	S1
Camassia angusta	Wild Hyacinth		SE	G5?Q	S1
Carex flava	Yellow Sedge		ST	G5	S2
Carex gravida	Heavy Sedge		SE	G5	S1
Chelone obliqua var. speciosa	Rose Turtlehead		WL	G4T3	S3
Chrysopsis villosa	Hairy Golden-aster		ST	G5	S2
Circaea alpina	Small Enchanter's Nightshade		SX	G5	SX
Cirsium hillii	Hill's Thistle		SE	G3	S1
Coeloglossum viride var. virescens	Long-bract Green Orchis		ST	G5T5	S2
Crataegus pedicellata	Scarlet Hawthorn		ST	G5	S2
Cypripedium candidum	Small White Lady's-slipper		WL	G4	S2
Eriophorum angustifolium	Narrow-leaved Cotton-grass		SR	G5	S2
Erysimum capitatum	Prairie-rocket Wallflower		ST	G5	S2
Euphorbia obtusata	Bluntleaf Spurge		SE	G5	S1
Gentiana alba	Yellow Gentian		SR	G4	S2
Houstonia nigricans	Narrowleaf Summer Bluets		SR	G5	S2
Linum sulcatum	Grooved Yellow Flax		SR	G5	S2
Lithospermum incisum	Narrow-leaved Puccoon		SE	G5	S1
Melampyrum lineare	American Cow-wheat		SR	G5	S2
Muhlenbergia cuspidata	Plains Muhlenbergia		SE	G4	S1
Napaea dioica	Glade Mallow		SR	G4	S2
Onosmodium hispidissimum	Shaggy False-gromwell		SE	G4	S1
Orobanche riparia	Bottomland Broomrape		SE	G5	S2
Oryzopsis racemosa	Black-fruit Mountain-ricegrass		SR	G5	S2
Panicum rigidulum var. pubescens	Long-leaved Panic-grass		SX	G5T5?	SX
Plantago cordata	Heart-leaved Plantain		SE	G4	S1
Poa paludigena	Bog Bluegrass		WL	G3	S3
Psoralea tenuiflora	Few-flowered Scurf-pea		SX	G5	SX
Sanguisorba canadensis	Canada Burnet		SE	G5	S1
Selaginella apoda	Meadow Spike-moss		WL	G5	S1
Silene regia	Royal Catchfly		ST	G3	S2
Trichostema dichotomum	Forked Bluecurl		SR	G5	S2
Viola pedatifida	Prairie Violet		ST	G5	S2

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<b>High Quality Natural Community</b>					
Barrens - gravel	Gravel Slope Barrens		SG	G3	S1
Barrens - sand	Sand Barrens		SG	G3	S2
Forest - upland dry-mesic	Dry-mesic Upland Forest		SG	G4	S4
Forest - upland mesic	Mesic Upland Forest		SG	G3?	S3
Lake - lake	Lake		SG	GNR	S2
Prairie - dry-mesic	Dry-mesic Prairie		SG	G3	S2
Wetland - fen	Fen		SG	G3	S3
Wetland - marsh	Marsh		SG	GU	S4
Wetland - seep circumneutral	Circumneutral Seep		SG	GU	S1
<b>Other Significant Feature</b>					
Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade	Water Fall and Cascade			GNR	SNR

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