

AREA PLAN COMMISSION

OF TIPPECANOE COUNTY

20 NORTH 3RD STREET
LAFAYETTE, INDIANA 47901-1209

(765) 423-9242
(765) 423-9154 [FAX]
www.tippecanoe.in.gov/apc

SALLIE DELL FAHEY
EXECUTIVE DIRECTOR

Date: January 16, 2014

Re: RED FLAG INVESTIGATION
DES #TBD
Creasy Lane
Star City Trail
Lafayette, Tippecanoe County, Indiana

NARRATIVE

The trail will be along the west side of Creasy Lane, beginning just north of Union Street and ending at Rome Drive. The trail will be constructed on the back side of the curb, varying between 10 and 12 feet in width. A new pedestrian crossing will be constructed at the Rome Drive intersection.

SUMMARY

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

Christ Memorial Temple is the only religious facility within ½ mile of the trail project. Its location is within 500 feet of the project. However, it is unlikely to be affected by construction as it is on the opposite side of Creasy Lane from the project site, and construction should be constrained.

Charter Behavioral Health Systems on Rome Drive is the only facility listed as a “hospital” within ½ mile of the project. Inpatient status is unknown. The facility is not in the immediate project area and not likely to be affected by construction.

McCaw Park is the only recreational facility or managed lands area listed in data provided by INDOT. The park’s east edge is immediately adjacent to the construction area and will required prior coordination.

One natural gas pipelines runs through the ½ mile project buffer. The listed owner is Vectren. The pipeline perpendicularly intersects the project line. Coordination with Indiana Gas will be necessary regarding any relocation.

The Greenbush/Munger trail is the only trail within ½ mile of the project. It trail joins the planned Star City Trail at its northern end. The existing trail users will be affected by construction.

| WATER RESOURCES | | | |
|--|------------|------------------------|------------|
| As identified below the following items of concern were found within ½ mile: | | | |
| NWI - Points | N/A | NWI - Wetlands | 4 |
| Karst Springs | N/A | IDEM 303d Listed Lakes | N/A |
| Canal Structures – Historic | N/A | Lakes | 1 |
| NWI - Lines | N/A | Floodplain - DFIRM | N/A |
| IDEM 303d Listed Rivers and Streams (Impaired) | N/A | Cave Entrance Density | N/A |
| Rivers and Streams | 1 | Sinkhole Areas | N/A |
| Canal Routes - Historic | N/A | Sinking-Stream Basins | N/A |

An unnamed Wildcat Creek tributary to the northeast is the only stream within ½ mile of the project area. Data provided by INDOT shows the source as roughly 500 feet from the project’s northern terminus. It is not likely to be affected by construction but is close enough care should be taken.

Four wetland areas are identified within ½ mile of the trail project. Three are associated with the drainage basin identified as a lake to the west. One is associated with another basin just outside the ½ project buffer. None are in the immediate project area or likely to be affected by construction.

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

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

| HAZMAT CONCERNS | | | |
|--|------------|--|------------|
| As identified below the following items of concern were found within ½ mile: | | | |
| Brownfield Sites | N/A | Restricted Waste Sites | N/A |
| Corrective Action Sites (RCRA) | N/A | Septage Waste Sites | N/A |
| Confined Feeding Operations | N/A | Solid Waste Landfills | N/A |
| Construction Demolition Waste | N/A | State Cleanup Sites | 1 |
| Industrial Waste Sites (RCRA Generators) | 2 | Tire Waste Sites | N/A |
| Infectious/Medical Waste Sites | N/A | Waste Transfer Stations | N/A |
| Lagoon/Surface Impoundments | N/A | RCRA Waste Treatment, Storage, and Disposal Sites (TSDs) | N/A |
| Leaking Underground Storage Tanks (LUSTs) | 1 | Underground Storage Tanks | 2 |
| Manufactured Gas Plant Sites | N/A | Voluntary Remediation Program | N/A |
| NPDES Facilities | N/A | Superfund | N/A |
| NPDES Pipe Locations | N/A | Institutional Control Sites | N/A |
| Open Dump Sites | N/A | | |

Data provided by INDOT identifies two RCRA generator sites within ½ mile of the project. The owners are listed as Caterpillar and Kenny's/Hudlow's. Neither is in the immediate project area or likely to be affected by construction.

The only LUST identified in the ½ mile project buffer is located at Charter Behavioral Systems. It is the closest hazmat concern in the entire ½ mile area, with a rough distance of 700 feet from the project's southern terminus. Field verification should be completed.

One state cleanup site is identified at Target #1762. The site is at the edge of the ½ mile radius but it's location is suspect.

Two underground storage tanks are identified within ½ mile of the project. The listed owners are Dan Kendrick Buick Cadillac Inc. and Sam's Club #8169. Both are more than 1,000 feet from the south end of the project and unlikely to be affected by construction.

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 federally-registered historic structures or districts are within ½ mile of the project area.

RECOMMENDATIONS

INFRASTRUCTURE: Coordination with Indiana Gas, Inc. and the Lafayette Parks Department will be necessary. The gas line runs directly through the construction area. McCaw Park is adjacent to the project's west side and will be affected by construction.

WATER RESOURCES: Prior coordination with IDEM or COE may be necessary if construction limits change.

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: Field verification of LUST with listed owner Charter Behavioral Systems.

ECOLOGICAL INFORMATION: N/A

CULTURAL RESOURCES: N/A

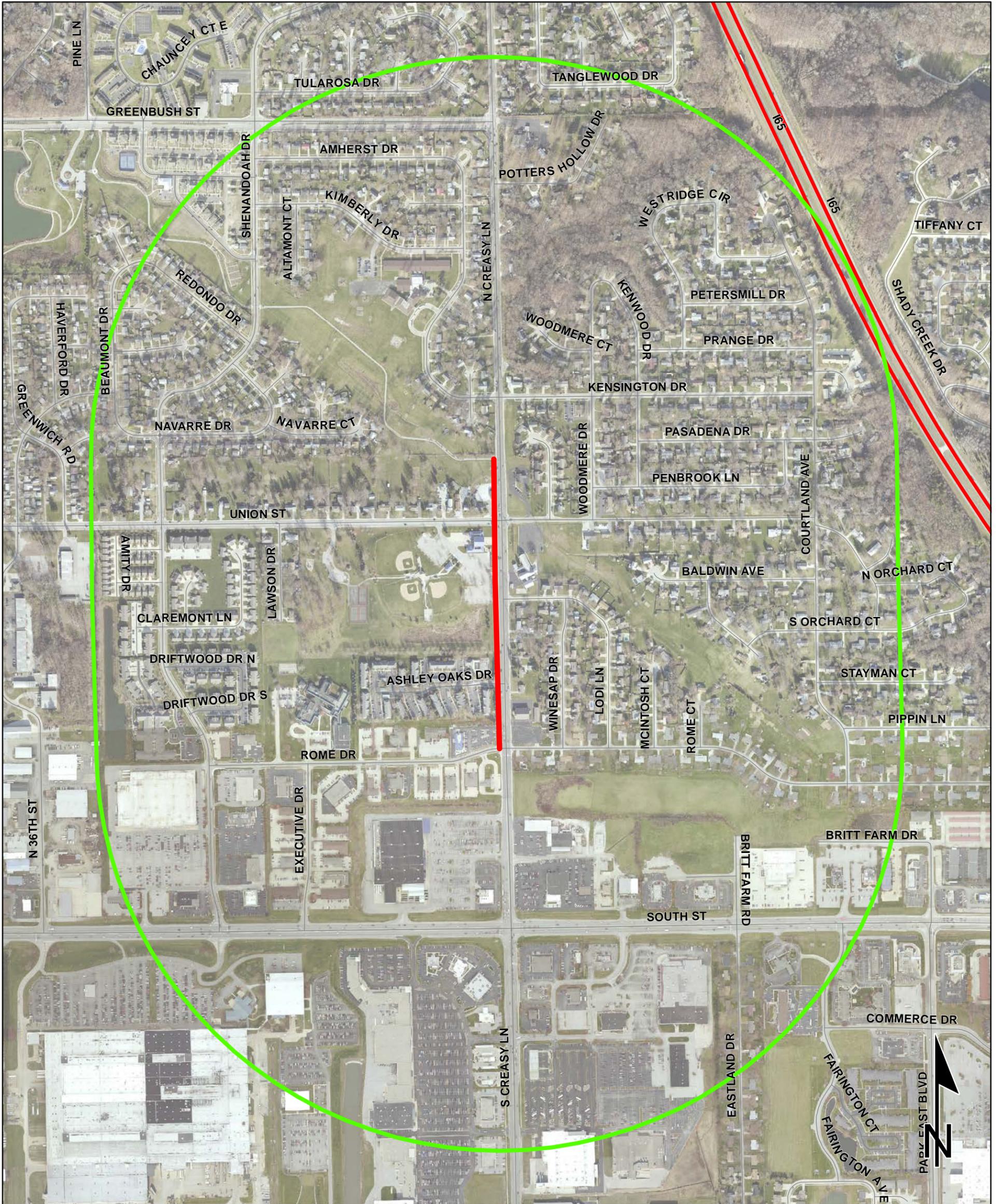
Prepared by:
Anna Burman
Transportation GIS Specialist
Area Plan Commission of Tippecanoe County

PROJECT AREA

Star City Trail

Des. No. TBD, Trail Construction

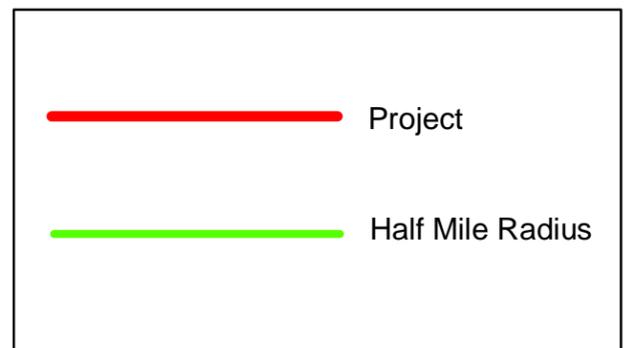
Tippecanoe County, Indiana



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



Project Area Map



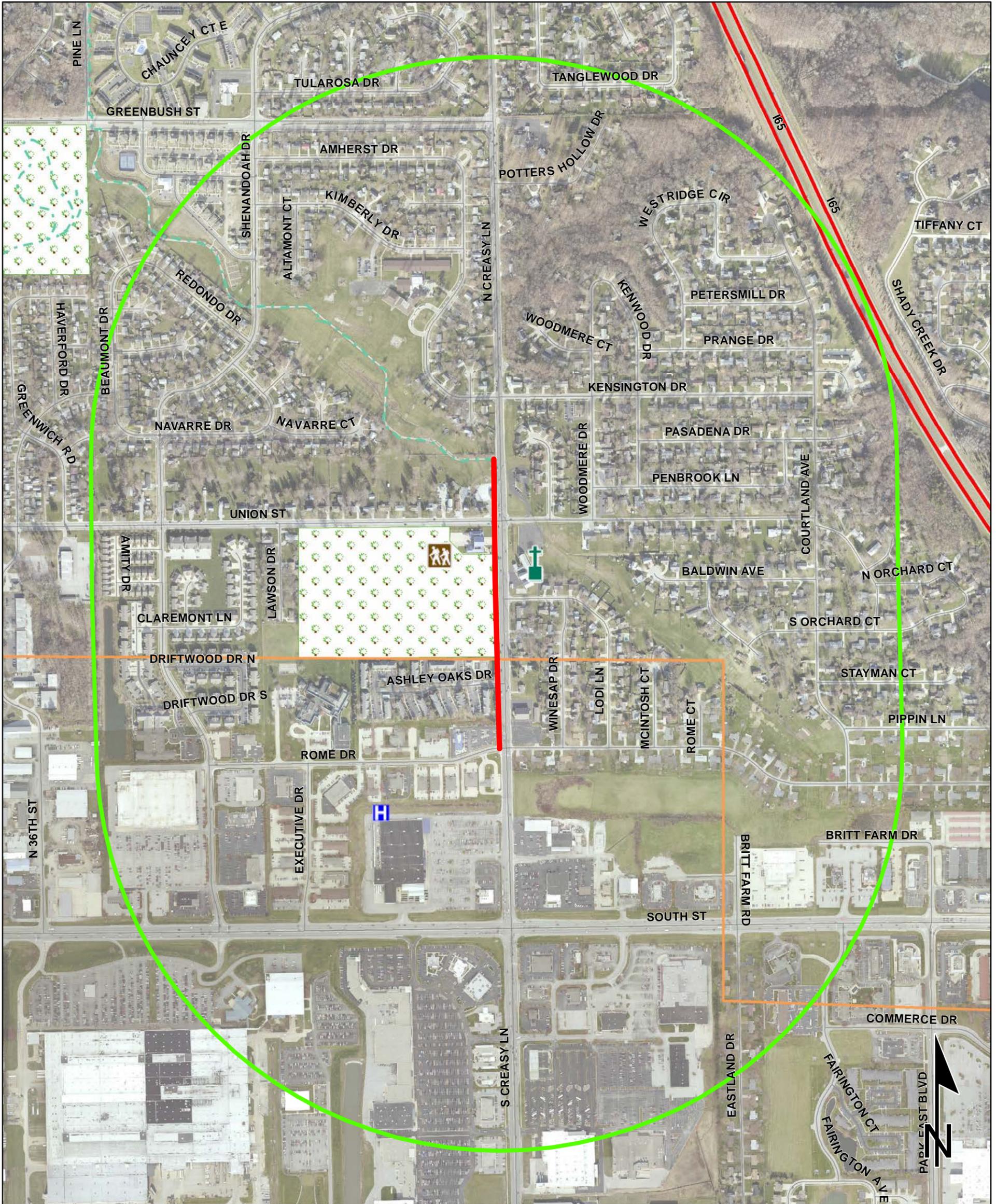
This map is intended to serve as an aid in graphic representation only and was provided by INDOT. This information is not warranted for accuracy or other purposes.

INFRASTRUCTURE

Star City Trail

Des. No. TBD, Trail Construction

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)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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 Legend

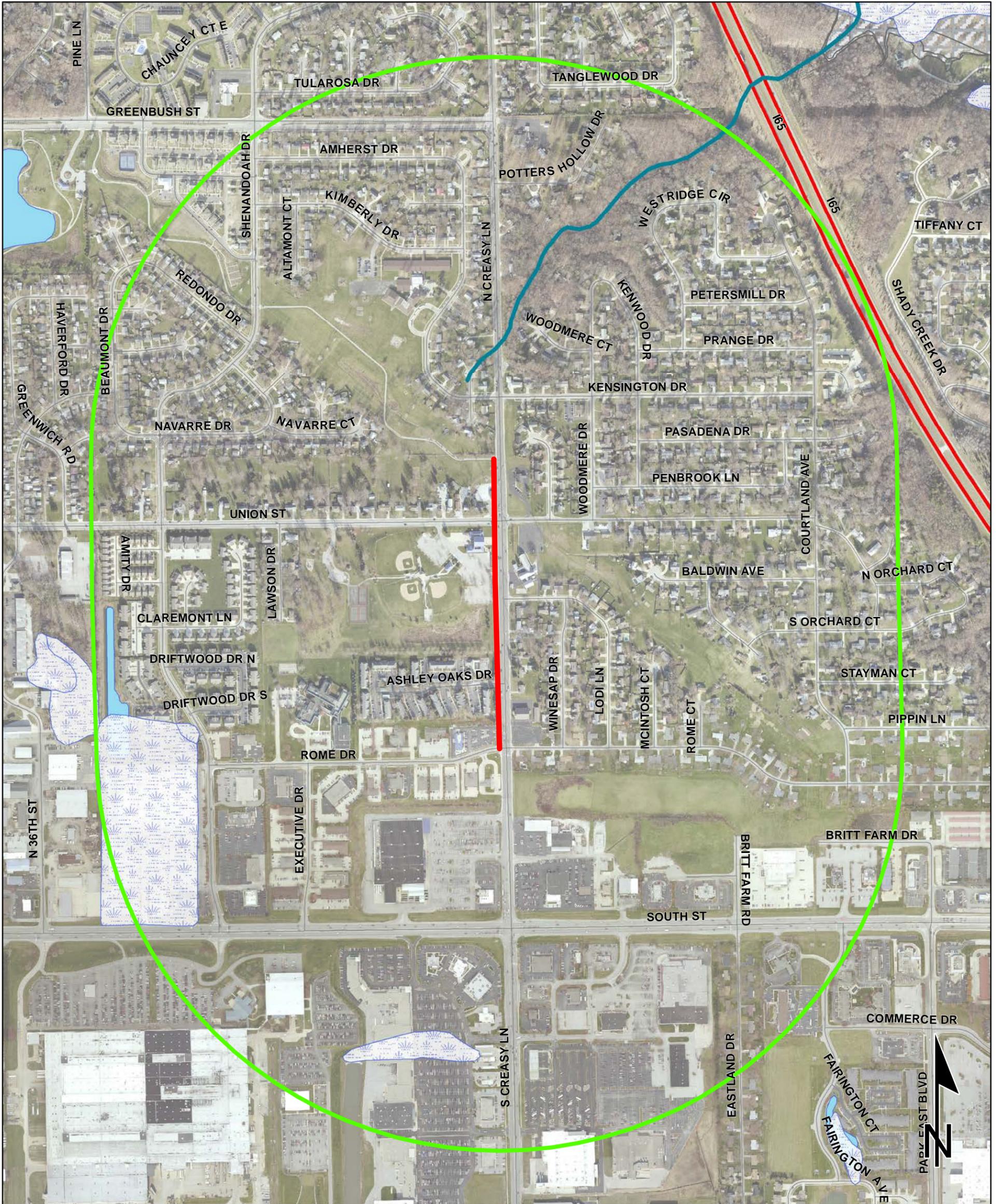
| | | | | | |
|--|----------------|--|-----------------|--|------------------|
| | Religious Bldg | | Recreation | | Project Area |
| | Religious Bldg | | Pipeline | | Half Mile Radius |
| | Airport | | Railroad | | Interstate |
| | Cemeteries | | Trails | | State Route |
| | Hospital | | Managed Lands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

WATER RESOURCES

Star City Trail

Des. No. TBD, Trail Construction

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)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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.

Water Resources Legend

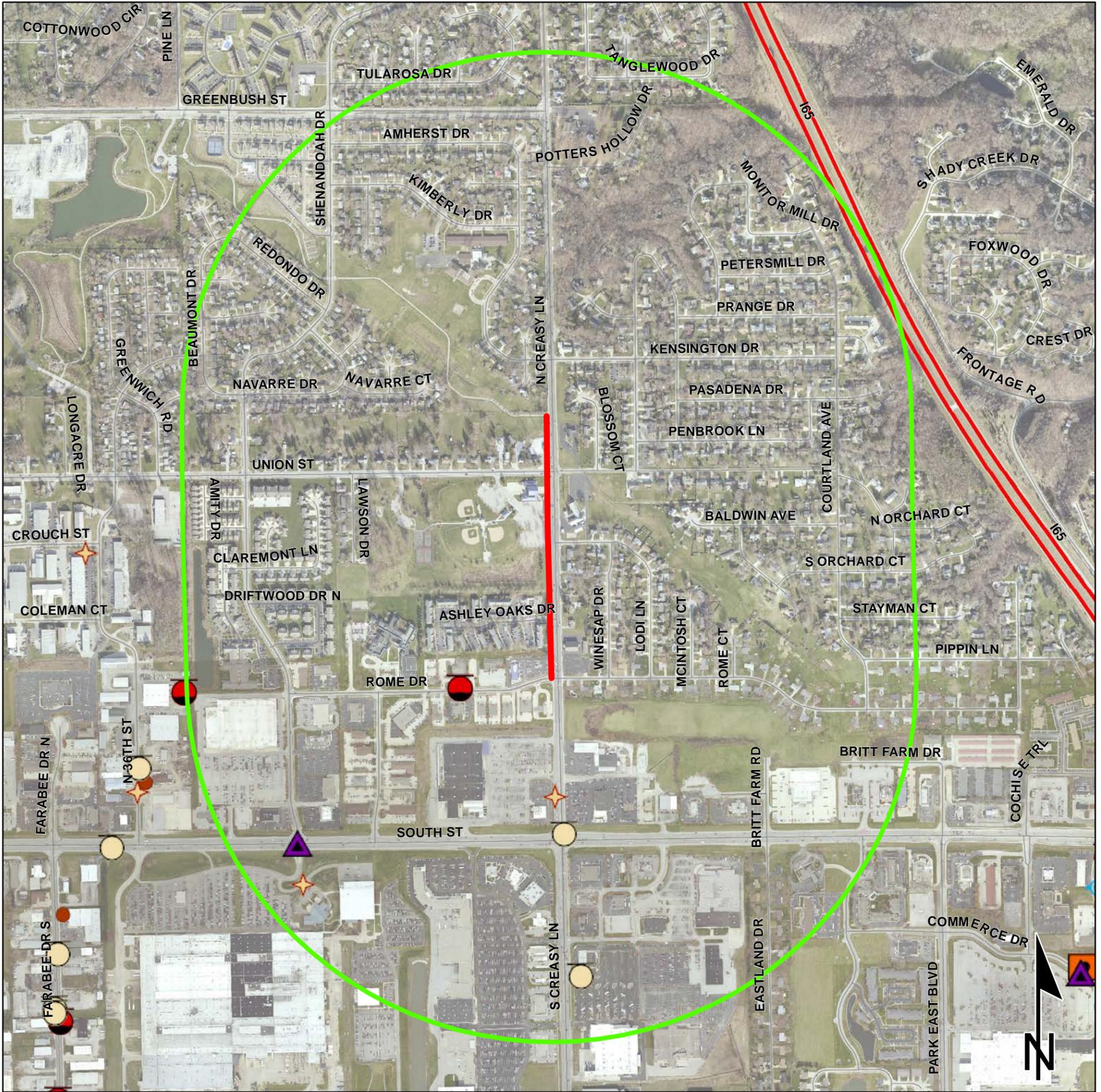
| | | |
|----------------------------|--------------------|------------------|
| NWI - Point | Wetlands | Project Area |
| Canal Structure - Historic | Lake - Impaired | Half Mile Radius |
| NWI - Line | Lake | Interstate |
| Stream - Impaired | Floodplain - DFIRM | State Route |
| NPS NRI listed | County Boundary | US Route |
| River | | Local Road |
| Canal Route - Historic | | |

HAZMAT CONCERNS

Star City Trail

Des. No. TBD, Trail Construction

Tippecanoe County, Indiana



HazMat Concerns Legend

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

0.15 0.075 0 0.15
Miles

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.

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: Tippecanoe

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|--|-------------------------------|-----|-------|--------|-------|
| Mollusk: Bivalvia (Mussels) | | | | | |
| 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 |
| Ptychobranhus fasciolaris | Kidneyshell | | SSC | G4G5 | S2 |
| Quadrula cylindrica cylindrica | Rabbitsfoot | C | SE | G3G4T3 | S1 |
| Simpsonaias ambigua | Salamander Mussel | | SSC | G3 | S2 |
| Toxolasma lividus | Purple Lilliput | | SSC | G3 | S2 |
| Villosa fabalis | Rayed Bean | LE | SSC | G2 | S1 |
| Insect: Coleoptera (Beetles) | | | | | |
| Lissobiops serpentinus | A Rove Beetle | | SE | GNR | S1 |
| Insect: Ephemeroptera (Mayflies) | | | | | |
| Paracloeodes minutus | A Small Minnow Mayfly | | SR | G5 | S2 |
| Insect: Lepidoptera (Butterflies & Moths) | | | | | |
| Speyeria idalia | Regal Fritillary | | SE | G3 | S1 |
| Insect: Mecoptera | | | | | |
| Merope tuber | Earwig Scorpionfly | | SE | G3G5 | S1 |
| Insect: Odonata (Dragonflies & Damselflies) | | | | | |
| Erpetogomphus designatus | Eastern Ringtail | | ST | G5 | S2 |
| Somatochlora tenebrosa | Clamp-tipped Emerald | | SR | G5 | S2S3 |
| Fish | | | | | |
| Etheostoma tippecanoe | Tippecanoe Darter | | SSC | G3G4 | S3 |
| Amphibian | | | | | |
| Hemidactylum scutatum | Four-toed Salamander | | SSC | G5 | S2 |

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: Tippecanoe

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

Vascular Plant

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: Tippecanoe

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|------------------------------------|--------------------------------|-----|-------|-------|-------|
| 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 |

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: Tippecanoe

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|--|-------------------------|-----|-------|-------|-------|
| High Quality Natural Community | | | | | |
| 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 |
| Other Significant Feature | | | | | |
| Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade | Water Fall and Cascade | | | GNR | SNR |

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