



INDIANA DEPARTMENT OF TRANSPORTATION

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

PHONE: (855) 463-6848

Eric Holcomb, Governor
Joe McGuinness,
Commissioner

Date: August 4, 2021

To: Site Assessment & Management
Environmental Policy Office - Environmental Services Division (ESD)
Indiana Department of Transportation
100 N Senate Avenue, Room IGCN 758-ES
Indianapolis, IN 46204

From: Keaton Veldkamp
Parsons
101 West Ohio Street, Suite 2121
Indianapolis, IN 46204
Keaton.Veldkamp@parsons.com

Re: RED FLAG INVESTIGATION
DES 1901643, State Project
Transportation Systems Management and Operations (TSMO)
Borman Expressway (I-80/I-94), from Illinois State Line to I-65
Gary, Griffith, Hammond, Highland, Hobart, Lake Station, and Munster, Lake County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The Indiana Department of Transportation (INDOT) is studying the I-80/I-94 Corridor (Borman Expressway) from I-65 to the Illinois/Indiana State Line, and potentially beyond to include the western portions of the I-65/Indiana Toll Road and the I-80/I-94 and Ripley Street/US 6/SR 51 interchanges. A variety of Transportation Systems Management and Operations (TSMO) strategies are under consideration, including active traffic management (ATM) and intelligent transportation system (ITS) solutions such as hard shoulder running, ramp metering, variable speed limits, lane control and special-purpose lanes; in addition to more traditional or conventional strategies to improve traffic operations. Ground disturbance activities under consideration include various foundations (e.g., large electronic signs, scaffolds, towers, meters, etc.), cable/utility installation, added lanes, and/or noise barriers. Additionally, drainage improvements would occur as needed. Some alternatives could include ditch regrading and/or small structure work (e.g., extension or replacement of pipes/culverts). No bridge work is anticipated, and the intent is to stay within existing right-of-way.

This document is being prepared for a Planning and Environment Linkages (PEL) Study of a range of alternatives. The National Environmental Protection Act (NEPA) process would be conducted in the future under a separate contract that would include standard early coordination and an updated RFI on the preferred alternative.

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 _____, Not Applicable

www.in.gov/dot/

An Equal Opportunity Employer

Type and proposed depth of excavation: Could include grading, trenching, boring, and/or directional drilling; ranging from the ground surface to over 12 feet below grade.

Maintenance of traffic: Will likely include shoulder and lane closures. At least two lanes of traffic along I-80/I-94 should remain open in each direction. Ramp closures at interchanges could occur and official detours would be provided.

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

State Project: LPA:

Any other factors influencing recommendations: *Drainage improvements would be identified under a future contract after completion of this PEL Study; therefore, a list of structures is not applicable of at this time.

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	80	Recreational Facilities	75*
Airports ¹	3	Pipelines	41
Cemeteries	2	Railroads	28
Hospitals	N/A	Trails	29*
Schools	19	Managed Lands	30*

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

*Includes sites not mapped in GIS.

Religious Facilities: Eighty (80) religious facilities are located within the 0.5 mile search radius. Nine (9) religious facilities are adjacent to the project area:

- Unity Church, at the southwest corner of US 41 and River Drive, Hammond
- Riverside Community Reformed Church, at the northwest corner of US 41 and 175th Street, Hammond
- Assembly of God Church of Hessville, aka Life Point Church, at the northwest corner of Kennedy Avenue and 174th Street, Highland
- Pentecostal Church of God, at the northwest corner of East Oakwood Drive and 27th Place, Gary
- Grace Missionary Baptist Church, at the southeast corner of Grant Street and 25th Avenue, Gary
- Saint Timothy Community Church, at the northwest corner of Grant Street and 25th Avenue, Gary
- Abundant Life Tabernacle, at the northwest corner of Burr Street and 29th Avenue, Gary
- Greater Saint James African Methodist Episcopal Church, at the northeast corner of Massachusetts Street and 26th Avenue, Gary
- Saint John Baptist Church, at the northeast corner of Massachusetts Street and 25th Avenue, Gary

Depending on the preferred alternative and its maintenance of traffic, further coordination with religious facilities should occur.

Airports: Although not located within the 0.5 mile search radius, three (3) public-use airports, Gary/Chicago International Airport, Griffith-Merrillville Airport, and the Hobart Sky Ranch Airport, are located within 3.8 miles (20,000 feet) of the project area. The Gary/Chicago International Airport is located approximately 2.3 miles north of the project area, the Griffith-Merrillville Airport is located approximately 3.3 miles south of the project area, and the Hobart Sky Ranch Airport is located approximately 1.0 mile south of the project area; therefore, early coordination with INDOT Aviation will occur.

Cemeteries: Two (2) cemeteries are located within the 0.5 mile search radius. The nearest cemetery, Evergreen Memorial, is located approximately 0.31 mile south of the project area. No impact is expected.

Schools: Nineteen (19) schools are located within the 0.5 mile search radius. Two (2) schools are located adjacent to the project area:

- Cline Avenue Baptist Childcare/Preschool, at the southeast corner of SR 912 and River Drive, Highland
 - Gary Academy & Blessed Beginning Daycare, at the northeast corner of Burr Street and 29th Avenue, Gary
- Coordination with Gary Academy & Blessed Beginning Daycare and Cline Avenue Baptist Childcare/Preschool will occur.

Recreational Facilities: Seventy-five (75) recreational facilities are located within the 0.5 mile search radius. Eleven (11) recreational facilities are adjacent to the project area:

- George W. Carlson Oxbow Park, near 178th Drive and 177th Street, Hammond (Note, “Kennedy Park” appears to be a duplicate listing).
- Hammond FOP 51 Memorial Field, at the southeast corner of J F Mahoney Drive and 175th Street, Hammond
- Rich's Park, at the southwest corner of Harrison Avenue and 177th Place, Munster
- Griffith Golf Center, at the northwest corner of SR 912 and River Drive, Griffith. Note, this site is no longer a golf course and appears to be vacant and covered in vegetation.
- Frederick Douglass Elementary School, at the northeast corner of Van Buren Street and 28th Avenue, Gary
- Black Oak Elementary School, at the northeast corner of Gerry Street and 29th Avenue, Gary. Note, this site is no longer a school and appears to be vacant and covered in vegetation.
- MC Bennet Park (LWCF Conversion), at the southwest corner of Grant Street and 25th Avenue, Gary
- Miller Park, near the northeast corner of Putnam Street and 20th Place, Lake Station
- Three Rivers County Park, at the southwest corner of Colorado Street and Dakota Street, Lake Station
- Grand Boulevard Lake, at northeast corner of Marquette Road and Grand Boulevard, Lake Station
- Four Winds Park, at the northwest corner of Marquette Road and Morgan Street, Lake Station

Coordination with Gary Community School Corporation, Lake Ridge Schools, Hammond Parks and Recreation, Gary Parks Department, and Lake Station Parks and Recreation is recommended.

Pipelines: Forty-one (41) pipeline segments are located within the 0.5 mile search radius. Thirty (30) pipeline segments, Northern Indiana Public Services Co., Buckeye Pipe Line Co., Phillips Pipe Line Co., Shell Oil Co. Inc., AMOCO Pipeline Co., Wolverine Pipe Line Co., Marathon Pipe Line Co., ARCO Pipe Line Co., Wabash Pipe Line Co., and Explorer Pipeline Co., cross the project area. Coordination with INDOT Utilities and Railroads should occur.

Railroads: Twenty-eight (28) railroads are located within the 0.5 mile search radius. Fourteen (14) railroad segments, Canadian National Railroad, Chicago, Ft. Wayne & Eastern Railroad, CSX Railroad, and an unlabeled railroad, cross the project area. Coordination with INDOT Utilities and Railroads should occur.

Trails: Twenty-nine (29)* trail segments are located within the 0.5 mile search radius. Eighteen (18)* current and planned trail segments cross or are adjacent the project area:

- Little Calumet River Levee Trail (Monon Trail to Calumet Avenue and Monon Trail to Northcote Avenue), Hammond is an existing trail that is adjacent to the project area. It crosses Calumet Avenue and River Drive south of the I-80/I-94 and Indianapolis Avenue/US 41/SR 152 interchange. It is also planned to cross the project area at or near the existing Monon Trail, discussed below.
- Monon Trail (Douglas Street south to Fisher Street), Hammond is an existing trail that crosses under I-80/I-94 at the bridge over the Little Calumet between Hohman Avenue and Harrison Avenue.
- Erie Trail Linear Park, also called the Erie Lackawanna Trail (Cabela's to Little Calumet River, Erie trail Linear Park, and Northcote to US 41 along Little Cal), Hammond is an existing trail that crosses I-80/I-94 via a culvert between Northcote Avenue and the I-80/I-94 and Indianapolis Avenue/US 41/SR 15 interchange.
- Twin Rivers Trail (Grand Calumet Trail to Little Calumet Trail), west of Kennedy Avenue, Hammond is a planned trail that would cross Bormann Expressway at or near the Norfolk Southern Railroad bridge, west of the Bormann Expressway and Kennedy Avenue interchange.
- Little Calumet River Levee Trail (Kennedy Avenue west to Crosstown Trail, Kennedy Avenue to Cline Avenue, and Oxbow Park Connection), Hammond and Highland, is an existing trail adjacent to the project area near the Kennedy Avenue bridge over the Little Calumet River.
- Hammond Parks Trails (Oxbow Park Trail and Oxbow Park Accessible Trail), Hammond and Highland, are existing trails adjacent to the project area in Oxbow Park southeast of the I-80/I-94 and Kennedy Avenue interchange.

www.in.gov/dot/

An Equal Opportunity Employer

- Little Calumet River Levee Trail (Burr Street to Martin Luther King Drive), Gary is an existing trail that crosses the project area at Broadway between 30th Avenue and 33rd Avenue. It also crosses the project area at Grant Street between the Bormann Expressway and Grant Street interchange and 32nd Street.
- An Unmapped Trail* in Gary crosses the project area two times, first on the southside of the Bormann Expressway and Grant Street interchange, and then on the southside of the I-80/I-94 and Broadway/SR 53 interchange.
- Gary Parks Trails (Gleason Park Wetland Trail), Gary is adjacent to the project area and is an existing trail that crosses 30th Avenue west of Broadway/SR 53.
- Lake County Parks Trails (Three Rivers Park Walking Trail), Lake Station is an existing trail adjacent to the project area southeast of the I-80/I-94 and I-65 interchange.
- East Lake Corridor (Marquette Greenway to C&O Corridor), Clay Street, Lake Station is a potential trail that would cross under I-80/I-90 along Clay Street via the existing bridge.
- Lake Station Parks Trail (Grand Boulevard Lake Trail), Lake Station is an existing trail adjacent to the project area south of I-80/I-94 between the I-80/I-94 and I-65 and the I-80/I-94 and Ripley Street/SB US 6/SR 51 interchanges.

Coordination with Gary Parks Department, Hammond Parks and Recreation Board, Lake County Parks and Recreation Department, Lake Station Parks and Recreation Department, Little Calumet River Basin Development Commission, and the Northwestern Indiana Regional Planning Commission will occur.

Managed Lands: Thirty (30)* managed lands are located within the 0.5 mile search radius. Fourteen (14)* managed lands are adjacent to the project area:

- River Drive Park, at the northwest corner of Hohman Avenue and River Drive, Munster
- Rich's Park, at the northeast corner of 177th Street and Harrison Avenue, Hammond
- Riverside Park, at the southwest corner of River Drive and Columbia Avenue, Hammond
- Optimist Youth Sports Complex, at the northwest corner of River Drive and Catalpa Avenue, Hammond
- Centennial Plaza and Trail, northwest of the I-80/I-94 and Indianapolis Avenue/US 41/SR 152 interchange, Hammond
- Wicker Memorial Park, southwest of US 41 and I-80, Hammond and Highland
- Edward C. Dowling Park, northeast of the I-80/I-94 and Kennedy Avenue interchange, Hammond
- Carlson – Oxbow Park, southeast of 177th Street and 178th Drive, Hammond and Highland
- Indiana Tolleston, west of SR 912 and 179th Street, Highland
- 25th Avenue Park, at the southwest corner of Grant Street and 25th Avenue, Gary
- North Gleason Park Pavilion*, southwest of the I-80/I-94 and Broadway/SR 53 interchange, Gary is unmapped
- Tolleston On the Hill, at the southeast corner of 35th Avenue and I-65, Lake Station
- Three Rivers County Park, southeast of the I-80/I-94 and I-65 interchange, Gary and Lake Station
- Grand Lake Recreation Area, north of Marquette Road, Lake Station

Coordination with East Gary Park Board, Gary Parks Department, Gary Department of Public Works, Hammond Parks and Recreation Department, Lake County Parks and Recreation, Munster Parks and Recreation Department, North Township Park and Recreation Board, Shirley Heinze Land Trust, and The Nature Conservancy is recommended.

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	1	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	336
Canal Structures – Historic	N/A	Lakes	97
NPS NRI Listed	2	Floodplain - DFIRM	82
NWI-Lines	30	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	32	Sinkhole Areas	N/A
Rivers and Streams	65	Sinking-Stream Basins	N/A

NWI Point: One (1) NWI Point is located within the 0.5 mile radius. The NWI Point is located approximately 0.17 mile east of the project area. No impact is expected.

National Park Service (NPS) National Rivers Inventory (NRI) Listed: Two (2) NPS NRI Listed segments for the same stream, Plum Creek, are located within the 0.5 mile radius. Plum Creek is located approximately 0.28 mile south of the project area. No impact is expected.

NWI – Lines: Thirty (30) NWI Lines are located within the 0.5 mile search radius. One (1) NWI Line is located within the project area. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

IDEM 303d Listed Streams and Lakes: Thirty-two (32) 303d Listed Streams are located within the 0.5 mile search radius. The Little Calumet River crosses the project area in several locations. The Little Calumet River is listed as impaired for E. coli and polychlorinated biphenyls (PCBs).

- The Little Calumet River is listed for E. coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.
- The Little Calumet River is impaired for PCBs in fish tissue. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT ESD Site Assessment & Management (SAM) will occur.

Rivers and Streams: Sixty-five (65) river and stream segments are located within the 0.5 mile search radius. Eighteen (18) river and stream segments are located within the project area. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

NWI – Wetlands: Three hundred and thirty-six (336) NWI Wetlands are located within the 0.5 mile search radius. Thirty-one (31) wetlands are located within the project area. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Lakes: Ninety-seven (97) lakes are located within the 0.5 mile search radius. Seven (7) lakes are adjacent to the project area. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Floodplain – DFIRM: Eighty-two (82) floodplain polygons are located within the 0.5 mile search radius. The project area is located within multiple floodplain polygons. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	1	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Petroleum Wells: One (1) petroleum well is located within the 0.5 mile search radius. The well is located approximately 0.17 mile south 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	1	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	36	Open Dump Waste Sites	1
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	15*	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	1
Underground Storage Tank (UST) Sites	45	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	7	Brownfields	17
Construction Demolition Waste	1	Institutional Controls	92
Solid Waste Landfill	4	NPDES Facilities	62
Infectious/Medical Waste Sites	1	NPDES Pipe Locations	18
Leaking Underground Storage (LUST) Sites	87	Notice of Contamination Sites	N/A

*Includes sites not mapped in GIS.

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

Superfund: One (1) superfund site is located within the 0.5 mile search radius. Lake Sandy Jo M&M Landfill, 3615 West 25th Avenue, Gary, Agency Interest Identification (AID) 20154, is located adjacent to the north of the project area, between the intersections of West 25th Avenue with Wright Street and Jennings Street. This former landfill was listed on the National Priority List (aka Superfund) in 1983 and is currently in the monitoring phase. It also has multiple Institutional Controls (ICs), including onsite engineering controls as well as aquifer use restrictions. A Phase II Environmental Site Assessment (ESA) is recommended. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.

RCRA Generator/TSD: Thirty-six (36) RCRA generator/TSD sites are located within the 0.5 mile search radius. Eleven (11) RCRA generator/TSD sites are adjacent to the project area:

- AMOCO 2702, 7405 Indianapolis Boulevard, Hammond, AID 22839, is adjacent to the north of the project area on Indianapolis Boulevard just north of 175th Street. According to a March 22, 2018 IDEM Compliance Letter, the UST owner/operator returned to compliance after a violation letter in February 2018. No impact is expected.

- Sherwin Williams Company, 7930 Nevada Street, Hammond AID 12240, is adjacent to the south of the project area at the southwest corner of New Jersey Avenue and 179th Street. This is a small quantity generator. IDEM issued a Return to Compliance Letter on February 10, 2020. No impact is expected.
- Primet Company Inc., 7917 New Jersey Avenue, Hammond, AID 16984, is adjacent to the south of the project area at the southeast corner of New Jersey Avenue and 179th Street. IDEM conducted an industrial waste inspection on March 22, 2002 and found that the site does not generate hazardous waste. No impact is expected.
- Bulkmatic Transport Company, 2001-2015 North Cline Avenue, Griffith, AID 12386 is adjacent to the project area at the southeast corner of Cline Avenue and River Drive. Refer to the LUST section for further discussion.
- Amoco Service Station 19754, 2567 Burr Street, Gary, AID 17549, is adjacent to the east of the project area at the northeast corner of Burr Street and 26th Avenue. Refer to the leaking underground storage tank (LUST) section for further discussion.
- J Care Service Center, currently Love's Travel Stop, 3030 Grant Street, Gary, AID 15950, is adjacent to the west of the project area at the northwest corner of Grant Street and West 32nd Avenue. Refer to the LUST section for further discussion.
- Amoco 15486, 2500 Broadway, Gary, AID 16913, is located adjacent to the project area at the southwest corner of Broadway and 25th Avenue. Refer to the underground storage tank (UST) section for further discussion.
- Indiana University Northwest, 3400 Broadway, Gary, AID 12295, is adjacent to the west of the project area at the southwest corner of Broadway and 33rd Avenue. This facility is a small quantity generator. Refer to the LUST section for further discussion.
- Lakeshore Truck Services Inc., 2250 East 15th Avenue, Gary, AID 20308, is adjacent to the west of the project area at the northeast corner of East 15th Street and Texas Street. This facility was a conditionally exempt small quantity generator in 2002. See the UST section for further discussion.
- Falcon Transport, 2399 East 15th Avenue, Gary, AID 16115, is adjacent to the project area at the southeast corner of Texas Street and 15th Street. This facility generated waste oil and was conditionally exempt in 2002. No impact is expected.
- Inland Detroit Diesel Allision, 2601 East 15th Avenue, Gary, AID 16488, is adjacent to the south of the I-65 and I-90/Indiana Toll Road/15th Street/US 20 interchange. Refer to the State Cleanup section for further discussion.

State Cleanup: Fifteen (15)* state cleanup sites are located within the 0.5 mile search radius. Four (4)* state cleanup sites are adjacent to the project area:

- Melody Cleaners, 7501 Calumet Avenue, Hammond, AID 24456, is adjacent to the northeast of the project area at the southeast corner of 175th Street and Calumet Avenue. This facility is a former dry cleaner that has impacted soil, groundwater, and vapors. According to a March 5, 2020 Demand for Compliance Letter, this site requires further investigation. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager Brendan Smith before further site activities occur.
- Woodmar Country Club, 1818 177th Street, Hammond, AID 23370, is located adjacent to the southwest of the I-80/I-94 and Indianapolis Avenue/US 41/SR 152 interchange at the current Cabela's store. On February 23, 2018, IDEM issued a Completion of ICP stating that the site investigation and remediation were completed in accordance with IDEM's Remediation Closure Guide (RCG). No impact is expected.
- Dena's Pub and the adjoining parcel, 3508 Broadway, Gary AID 23369, is a former service station adjacent to the project at the southwest corner of Broadway and East 35th Avenue. A petroleum release and low level soil and groundwater impacts were encountered in 2004 to 2005. On April 19, 2016, IDEM stated that the site was eligible for the Independent Closure Process (ICP). If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager Jerry O'Callahan before further site activities occur.
- Inland Detroit Diesel Allision* (aka Western Engineering), 2601 East 15th Avenue, Gary, AID 16488, is adjacent to the south of the I-65 and I-90/Indiana Toll Road/15th Street/US 20 interchange. IDEM reviewed and approved the Site Characterization Report on January 11, 2021. Relatively low levels of chlorinated solvents are present in onsite soil and groundwater and an Environmental Restrictive Covenant (ERC) is proposed. A Phase II ESA is

warranted. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.

UST Sites: Forty-five (45) UST sites are located within the 0.5 mile search radius. Nine (9) UST sites are adjacent or near the project area:

- Shell Station 3586-12, 7902 Kennedy/I-94, Hammond, AID 23170 is within the project area near the intersection of Kennedy Avenue and Corinne Drive. According to the October 12, 1987 Notification Form, all four (4) USTs were removed in May 1987; however, there is no available closure documentation. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- One Stop 227 Shell, 2900 Burr Street, Gary, AID 18547, is adjacent to the project at the corner of Burr Street and West 29th Street. According to the IDEM letter dated April 3, 2019, this active facility had three (3) USTs and several violations but no evidence of a release. No impact is expected.
- Guy Pleasant B&G Citgo, 5330 West 25th Street, Gary, AID 22061, is adjacent to the project at the northeast corner of Burr Street and 25th Street. This facility registered six (6) USTs in 1992 and appears to be vacant. No closure or sampling documentation was found in the VFC. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary.
- Methodist Hospital Transportation Center, 3069 Grant Street, Gary, AID 18895, is 0.03 mile southeast of the project area. Two USTs were reportedly removed in 1999. No impact is expected.
- Amoco 15486, 2500 Broadway, AID 16913, is located adjacent to the project area at the southwest corner of Broadway and 25th Avenue. This facility received a violation letter from IDEM on December 2, 2020 that reported a release of fuel from the north sump. If excavation will occur in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Compliance Manager, Brandon Davis, before further site activities occur.
- Demetrios Vlahos, 2584 Broadway, Gary, AID 19807, is adjacent to the project at the northwest corner of Broadway and East 26th Avenue. According to the August 25, 1990 Notification Form, five (5) tanks were removed in June 1990. Documentation prior to the UST pull suggests that the USTs were leaking prior to removal. It does not appear as though closure sampling or documentation was completed. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- Broadway Produce, 2604 Broadway, Gary, AID 21516, is adjacent to the project near the southwest corner of Broadway and West 26th Avenue. According to the July 12, 1990 Notification Form, four (4) USTs were removed in June 1990. It does not appear as though closure sampling or documentation was completed. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- Pozzo Mack Sales & Service, 3001 East 15th Place, Gary, AID 15929, is adjacent to the project southeast of the I-65 and I-90/Indiana Toll Road/15th Street/US 20 interchange. This facility reported one (1) heating oil UST in 1986. No impact is expected.
- Lakeshore Truck Services Inc., 2250 East 15th Avenue, Gary AID 20308, is adjacent to the west of the project area at the northeast corner of East 15th Street and Texas Street. This facility registered a 500-gallon waste oil tank in 1986. No further information was found in the file. If excavation will occur in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary.

Voluntary Remediation Program (VRP): Seven (7) VRP sites are located within the 0.5 mile search radius. Two (2) sites are located adjacent to the project area:

- Monon Rail Yard, 173rd Street, Hammond, AID 23494, is located approximately 0.1 mile north of the project area at the northeast corner of Southmoor Road and Lyman Avenue. This former rail yard was investigated and found to be below 1996 nonresidential closure values. IDEM issued a Covenant Not to Sue and Certificate of Completion on February 15, 2002. A Phase II ESA is recommended. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.
- Burger King, 7843 Indianapolis Boulevard, Gary, AID 23459, is adjacent to the northeast of the project area at the north corner of Indianapolis Boulevard and Interstate Plaza Drive. The USTs were removed from this former gas station in 1983. According to the Covenant Not to Sue, issued by IDEM on September 23, 2009, the contamination

did not extend off-site. This facility had an ERC recorded on April 2, 2009 that restricts on-site residential and groundwater use and has excavation requirements. No impacts are expected.

Construction Demolition Waste: One (1) construction demolition waste site is mapped within the 0.5 mile search radius. Lake Station Solid Fill Site, 3400 East 20th Avenue, Gary, AID 25095, is mapped adjacent to the project area southwest of the I-80/I-94 and Ripley Street/SB US 6/SR 51 interchange. The VFC did not contain any files concerning this site. Coordination with IDEM will occur to see if there are any available files or documentation for the site.

Solid Waste Landfill: Four (4) solid waste landfill sites are located within the 0.5 mile search radius. The nearest site, the Gary Landfill, 15th Avenue, Gary, AID 25093, is mapped adjacent to the project area. The VFC did not contain any files concerning this site. Coordination with IDEM will occur to see if there are any available files or documentation for the site.

Infectious/Medical Waste Sites: One (1) Infectious/Medical Waste Site is located within the 0.5 mile search radius. Stericycle Incorporated, 1451 Texas Street, Gary, AID 25080, is located approximately 0.25 mile west of the project area. No impact is expected.

LUST Sites: Eighty-seven (87) LUST sites are located within the 0.5 mile search radius. Twenty-two (22) LUST sites are adjacent to the project area:

- Amoco Oil Company Station No. 14152, 7530 Calumet Avenue, Hammond, AID 18623, is adjacent to the west of the project area at the southwest corner of 175th Street and Calumet Avenue. On January 8, 2014, IDEM issued a NFA Determination Approval Pursuant to IDEM RISC Guidance based on non-default, industrial for soil and default, residential for groundwater. Based on the ERC, recorded on October 2, 2013, the residual soil contamination is limited to an affected area near the pump island. Coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.
- Superior Trucking, Calumet Avenue, Hammond, "@ I-80/I-94", AID 21595, is mapped within the project area within the I-80/I-94 and Indianapolis Avenue/US 41/SR 152 interchange. This facility has one document in the VFC. On January 28, 1999 IDEM requested an Initial Site Characterization, which was returned "No Such Address". No impact is expected.
- Shell Station 3586-14, 7517 Calumet Avenue North, Hammond, AID 24059, is adjacent to the project area at the northeast corner of Calumet Avenue and 175th Place. IDEM issued a NFA Approval Determination Pursuant to RCG on April 5, 2007. Low levels of contaminated soil and groundwater remain on site. Based on the July 26, 2005 Corrective Action Plan Implementation Report the impacted areas were on the eastern side near the alley. No impact is expected.
- Witham Sav-A-stop, 7452 Indianapolis Boulevard, Hammond, AID 18424, is adjacent to the project area at the northwest corner of 175th Street and Indianapolis Boulevard. On February 3, 2016, IDEM issued this service station a NFA Determination Approval Pursuant to IDEM 1994 LUST Guidance. No impact is expected.
- Clark Store, 7410 South Kennedy Avenue, Hammond, AID 20431, is adjacent to the west of the project at the southwest corner of 174th Street and Kennedy Avenue. Two USTs were removed from this former service station in 2017 and impacted soil was encountered. IDEM issued a Notice of Deficiency on January 3, 2020. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager Nawal Hopkins before further site activities occur.
- Speedway/Sm #8332, 7345 Kennedy Avenue, Hammond, AID 10493 is adjacent to the project area northeast of 174th Street and Kennedy Avenue. Seven (7) USTs were removed on November 10 and 11, 2020. On February 22, 2021, IDEM determined that the UST closure had been completed. On March 21, 2019, IDEM issued a NFA Approval Pursuant to RCG that states a Notice of Contamination was sent to City of Hammond. An ERC, recorded on February 21, 2019, restricts groundwater use, residential use, and has provisions for excavations and redevelopment. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.

- Bulkmatic Transport Company, 2001-2015 North Cline Avenue, Griffith, AID 12386, is adjacent to the project area at the southeast corner of Cline Avenue and River Drive. Two (2) diesel fuel USTs that were 10,000 and 15,000 gallons in capacity were removed on July 17, 2019. On November 19, 2019 IDEM issued a NFA letter with unconditional closure for soil and groundwater. No impact is expected.
- Gary Travel Center, 2510 Burr Street, Gary, AID 14015, is adjacent to the project area at the southwest corner of 25th Avenue and Burr Street. IDEM issued this active truck stop a NFA Determination Approval Pursuant to RISC Guidance on March 4, 2016, based on non-default industrial for soil and default, industrial for groundwater. An ERC was recorded on November 20, 2015 that shows the restricted area is around the fuel pump island. No impacts are expected.
- TA Truckstops, 2510 Burr St, Gary, FID 19261, is adjacent to the project area at the southwest corner of 25th Avenue and Burr Street. No files were encountered in the VFC for this facility. Based on the address, it appears to be the same property Gary Travel Center, 2510 Broadway, discussed above.
- Mr. Fuel 7, 2945 South Burr Street, Gary, Facility Identification (FID) 25235, is adjacent to the southeast of the project area at West 29th Avenue and Burr Street. This facility submitted a Release Investigation on September 25, 2020 due to a release of fuel to a sump. On May 4, 2020, an Initial Site Investigation Report was submitted, which requested NFA. The USTs and dispensers are approximately 0.03 mile from existing right-of-way. No impact is expected.
- Amoco Service Station 19754, 2567 Burr Street, Gary, AID 17549, is adjacent to the east of the project area at the northeast corner of Burr Street and 26th Avenue. The former service station has been closed since 1998 and tanks were removed in 2000. On August 12, 2004 IDEM issued a NFA letter pursuant to 1994 guidance. No impact is expected.
- Pilot Corp #271, 2501 Burr Street, Gary, AID 13656, is adjacent to the project area at the southeast corner of 25th Avenue and Burr Street. A draft ERC was submitted to IDEM for this site on July 29, 2019. The draft ERC would prohibit residential, and groundwater use and excavation underneath the existing pavement. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.
- Flying J Travel Plaza, 3150 Grant Street, Gary, AID 14218, is adjacent to the southwest of the project area at the northwest corner of West 32nd Avenue and Grant Street. On March 19, 2019, IDEM issued this truck stop a NFA Approval Determination Pursuant to RCG based on unconditional closure for soil, groundwater and vapor exposure. No impacts are expected.
- J Care Service Center, currently Pilot Flying J Travel Stop, 3030 Grant Street, Gary AID 15950, is adjacent to the west of the project area at the northwest corner of Grant Street and West 32nd Avenue. This facility has three LUST incidents. IDEM issued a No Further Action (NFA) Approval Determination Pursuant to RCG on March 24, 2017 with unconditional closure for soil and groundwater exposure. No impact is expected.
- Steel City, 3001 Grant Street, Gary, AID 14008, is a truck stop adjacent to the project area at the northeast corner of Grant Street and West 32nd Avenue. A draft ERC was submitted to IDEM for this site on September 8, 2020. On March 11, 2020, IDEM requested an ERC that prohibits residential and groundwater use, and maintenance of pavement. Based on data and maps in the April 30, 2020 Quarterly Monitoring Report, petroleum-impacted soil and groundwater is likely within existing right-of-way. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager Steven Baumann before further site activities occur.
- Indiana University Northwest, 3400 Broadway, Gary, AID 12295, is adjacent to the west of the project area at the southwest corner of Broadway and 33rd Avenue. IDEM issued a NFA Approval Determination Pursuant to RCG on November 13, 2003. Low levels of soil and groundwater remain on the site. Based on the Follow-up Soil/Groundwater Sampling Report, dated May 5, 2003, the affected area was near 34th Avenue and Massachusetts Avenue. No impact is expected.
- 0213 Clark Service Station, 2569 South Broadway, Gary, AID 19260, is adjacent to the project area at the northeast corner of West 26th Avenue and Broadway. IDEM issued this former service station a NFA Determination Approval Pursuant to IDEM RISC Guidance on September 11, 2012 based on non-default industrial for soil and groundwater. An ERC was recorded on June 19, 2012 that shows low levels of petroleum contaminants were present in soil and groundwater in 2011 and 2012. If excavation occurs in this area, proper

handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.

- Lovely Mobil Inc, 3077 Broadway, Gary, AID 22953, is adjacent to the project area at the southeast corner of West 30th Avenue and Broadway. On July 20, 2005 IDEM issued a NFA letter based on non-default industrial closure, and an ERC was referred to; coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.
- RYR Broadway (Former Shell), 3501 Broadway, Gary, AID 18863, is adjacent to the project area at the southeast corner of 35th Avenue and Broadway. IDEM issued a NFA Approval Determination Pursuant to RCG on June 23, 2017 that was unconditional for soil exposure and conditional for groundwater and vapor intrusion. Based on the March 16, 2017 NFA Request, low levels of contaminated groundwater remained on-site and within existing right-of-way near the intersection of Broadway and West 35th Avenue. An ERC was recorded on February 17, 2017 that includes residential and groundwater use restrictions. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.
- Organizational Maintenance Shop 13, 2501 East 15th Avenue, Gary, AID 12341, is adjacent to the project area, south of the I-65 and I-90/Indiana Toll Road/15th Street/US 20 interchange. Based on the November 11, 1997 LUST Investigation Report, two (2) USTs were removed, and confirmatory sampling was below the applicable guidelines. No impact is expected.
- Western Engineering, 2601 East 15th Avenue, Gary, AID 16488, is discussed above under State Cleanup under the name Inland Detroit Diesel Allison.
- Flying J, 1401 Ripley Street, Lake Station, AID 13873, is adjacent to the northeast of the project area, northeast of the I-80/I-94 and Ripley Street/SB US 6/SR 51 interchange. On June 14, 2019, IDEM issued a NFA Approval Determination Pursuant to RCG based on unconditional closure for soil and conditional closure for groundwater and vapor intrusion. An ERC was recorded on May 13, 2019 that restricts residential and groundwater uses and has redevelopment conditions. Based on the maps in the November 19, 2018 NFA Request Report, the contaminated area is limited and does not encroach on existing right-of-way. No impact is expected.

Open Dump Waste Sites: One (1) open dump waste site is located within the 0.5 mile search radius. Highland-Dump, 3994 179th Street, Highland, is adjacent to the project area at the corner of Cline Avenue and 179th Street. The VFC did not contain any files concerning this site. Coordination with IDEM will occur to determine if there are any available records or files.

Tire Waste Sites: One (1) tire waste site is located within the 0.5 mile search radius. Phoenix Recycling Company, 6024 West 30th Avenue, Gary, AID 22386, is located approximately 0.37 mile south of the project area. No impact is expected.

Brownfields: Seventeen (17) brownfields are located within the 0.5 mile search radius. Two (2) brownfields are mapped near the project area:

- Arogas Parcel, 2760 Gerry Street, Gary, AID 125405, is at the northwest corner of West 29th Street and Gerry Street. This former salvage yard facility has an ERC that was recorded on August 13, 2020 that includes soil and groundwater restrictions for two parcels located approximately 0.10 mile south of the project area. No impact is expected.
- State Road 51 North, SR 51 North, Lake Station, AID 24208, is mapped within the project area. However, based on the maps in the 1998 report it is located 0.28 miles north-northwest. No impact is expected.

Institutional Controls: Ninety-one (91) institutional control sites are located within the 0.5 mile search radius. Nine (9) institutional control facilities (including a facility with multiple ICs) are adjacent to the project area:

- Amoco Oil Company Station No. 14152, 7530 Calumet Avenue, Hammond, AID 18623, is discussed above under LUST sites.
- Speedway/Sm #8332, 7345 Kennedy Avenue, Hammond, AID 10493, is discussed above under LUST sites.
- Burger King, 7843 Indianapolis Boulevard, Gary, AID 23459, is discussed above under VRP sites.

- Lake Sandy Jo M&M Landfill, 3615 West 25th Avenue, FID 7500077, has multiple ICs and is discussed above under Superfund Sites. This site had a Declaration of Restriction filed with Lake County, Indiana on September 6, 1995 that restricts on-site residential and groundwater use and has excavation requirements. Coordination will be conducted with the IDEM Project Manager Justin Hodgson before further site activities occur.
- Arogas Parcel, 2760 Gerry Street, Gary, AID 125405, is discussed above under Brownfields.
- Gary Travel Center, 2510 Burr Street, Gary, AID 14015, is discussed above under LUST sites.
- 0213 Clark Service Station, 2569 South Broadway, Gary AID 19260, is discussed above under LUST sites.
- RYR Broadway (Former Shell), 3501 Broadway, Gary, AID 18863, is discussed above under LUST sites.
- Flying J, 1401 Ripley Street, Lake Station, AID 13873, is discussed above under LUST sites.

NPDES Facilities: Sixty-two (62) NPDES facilities are located within the 0.5 mile search radius. Twenty-one (21) NPDES facilities are adjacent to the project area. Coordination will be required for facilities with active permits.

NPDES Pipe Locations: Eighteen (18) NPDES pipe locations are located within the 0.5 mile search radius. Three (3) NPDES pipe locations are adjacent to the project area. Coordination will be required for facilities with active permits.

ECOLOGICAL INFORMATION SUMMARY

The Lake County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is provided at <https://www.in.gov/dnr/naturepreserve/files/np-lake.pdf>. A preliminary review of the Indiana Natural Heritage Database by INDOT ESD 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 did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

RECOMMENDATIONS SECTION

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

INFRASTRUCTURE:

Religious Facilities: Nine (9) religious facilities are adjacent to the project area. Coordination with Unity Church, Assembly of God Church of Hessville, Riverside Community Reformed Church, Pentecostal Church of God, Grace Missionary Baptist Church, Saint Timothy Community Church, Abundant Life Tabernacle, Greater Saint James African Methodist Episcopal Church, and Saint John Baptist Church should occur.

Airports: Although not located within the 0.5 mile search radius, three (3) public-use airports, Gary/Chicago International Airport, Griffith-Merrillville Airport, and the Hobart Sky Ranch Airport, are located within 3.8 miles (20,000 feet) of the project area. Coordination with INDOT Aviation will occur.

Schools: Two (2) schools are located adjacent to the project area. Coordination with Gary Academy & Blessed Beginning Daycare and Cline Avenue Baptist Childcare/Preschool will occur.

Recreational Facilities: Eleven (11) recreational facilities are adjacent to the project area. Coordination with Gary Community School Corporation, Lake Ridge Schools, Hammond Parks and Recreation, Gary Parks Department, and Lake Station Parks and Recreation is recommended.

Pipelines: Thirty (30) pipeline segments cross the project area. Coordination with INDOT Utilities and Railroads should occur.

Railroads: Fourteen (14) railroad segments cross the project area. Coordination with INDOT Utilities and Railroads should occur.

Trails: Eighteen (18) current and planned trail segments, East Lake Corridor, Erie Trail Linear Park, Gary parks Trails, Hammond Parks Trails, Lake County Parks Trails, Lake Station Parks Trails, Little Calumet River Levee Trail, an unmapped trail, Monon Trail, and Twin Rivers Trail, cross or are adjacent to the project area. Coordination with Gary Parks Department, Hammond Parks and Recreation Board, Lake County Parks and Recreation Department, Lake Station Parks and Recreation Department, Little Calumet River Basin Development Commission, and the Northwestern Indiana Regional Planning Commission will occur.

Managed Lands: Fourteen (14) managed lands are adjacent to the project area. Coordination with East Gary Park Board, Gary Parks Department, Gary Department of Public Works, Hammond Parks and Recreation Department, Lake County Parks and Recreation, Munster Parks and Recreation Department, North Township Park and Recreation Board, Shirley Heinze Land Trust, and The Nature Conservancy is recommended.

WATER RESOURCES: The presence of the following water resources will require the preparation of a Waters of the US report and coordination with INDOT ESD Ecology and Waterway Permitting:

- One (1) NWI Line is located within the project area.
- Eighteen (18) river and stream segments are located within the project area.
- Thirty-one (31) wetlands are located within the project area.
- Seven (7) lakes are adjacent to the project area.
- The project is located within floodplains (coordination only).

IDEM 303d Listed Streams and Lakes: The Little Calumet River is listed as impaired for E. coli and PCBs.

- The Little Calumet River is listed for E. coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.
- The Little Calumet River is impaired for PCBs in fish tissue. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT ESD Site Assessment & Management (SAM) will occur.

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS:

Superfund: One (1) superfund site is located within the 0.5 mile search radius. Lake Sandy Jo M&M Landfill, 3615 West 25th Avenue, Gary, AID 20154, is located adjacent to the north of the project area, between the intersections of West 25th Avenue with Wright Street and Jennings Street. This former landfill was listed on the National Priority List (aka Superfund) in 1983 and is currently in the monitoring phase. It also has multiple ICs, including onsite engineering controls as well as aquifer use restrictions. A Phase II ESA is recommended. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.

State Cleanup:

- Melody Cleaners, 7501 Calumet Avenue, Hammond, AID 24456, is adjacent to northeast of the project area at the southeast corner of 175th Street and Calumet Avenue. This facility is a former dry cleaner that has impacted soil, groundwater, and vapors. According to a March 5, 2020 Demand for Compliance Letter, this site requires further investigation. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager Brendan Smith before further site activities occur.

- Dena's Pub and the adjoining parcel, 3508 Broadway, Gary AID 23369, is a former service station adjacent to the project at the southwest corner of Broadway and East 35th Avenue. A petroleum release and low level soil and groundwater impacts were encountered in 2004 to 2005. On April 19, 2016, IDEM stated that the site was eligible for the ICP. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager Jerry O'Callahan before further site activities occur.
- Inland Detroit Diesel Allison* (aka Western Engineering), 2601 East 15th Avenue, Gary, AID 16488, is adjacent to the south of the I-65 and I-90/Indiana Toll Road/15th Street/US 20 interchange. IDEM reviewed and approved the Site Characterization Report on January 11, 2021. Relatively low levels of chlorinated solvents are present in onsite soil and groundwater and an ERC is proposed. A Phase II ESA is warranted. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.

UST Sites:

- Shell Station 3586-12, 7902 Kennedy/I-94, Hammond, AID 23170 is within the project area near the intersection of Kennedy Avenue and Corinne Drive. According to the October 12, 1987 Notification Form, all four (4) USTs were removed in May 1987; however, there is no available closure documentation. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- Guy Pleasant B&G Citgo, 5330 West 25th Street, Gary, AID 22061, is adjacent to the project at the northeast corner of Burr Street and 25th Street. This facility registered six (6) USTs in 1992 and appears to be vacant. No closure or sampling documentation was found in the VFC. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary.
- Amoco 15486, 2500 Broadway, AID 16913, is located adjacent to the project area at the southwest corner of Broadway and 25th Avenue. This facility received a violation letter from IDEM on December 2, 2020 that reported a release of fuel from the north sump. If excavation will occur in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Compliance Manager, Brandon Davis, before further site activities occur.
- Demetrios Vlahos, 2584 Broadway, Gary, AID 19807, is adjacent to the project at the northwest corner of Broadway and East 26th Avenue. According to the August 25, 1990 Notification Form, five (5) tanks were removed in June 1990. Documentation prior to the UST pull suggests that the USTs were leaking prior to removal. It does not appear as though closure sampling or documentation was completed. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- Broadway Produce, 2604 Broadway, Gary, AID 21516, is adjacent to the project near the southwest corner of Broadway and West 26th Avenue. According to the July 12, 1990 Notification Form, four (4) USTs were removed in June 1990. It does not appear as though closure sampling or documentation was completed. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- Lakeshore Truck Services Inc., 2250 East 15th Avenue, Gary AID 20308, is adjacent to the west of the project area at the northeast corner of East 15th Street and Texas Street. This facility registered a 500-gallon waste oil tank in 1986. No further information was found in the file. If excavation will occur in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary.

VRP Sites:

- Monon Rail Yard, 173rd Street, Hammond, AID 23494, is located approximately 0.1 mile north of the project area at the northeast corner of Southmoor Road and Lyman Avenue. This former rail yard was investigated and found to be below 1996 nonresidential closure values. IDEM issued a Covenant Not to Sue and Certificate of Completion on February 15, 2002. A Phase II ESA is recommended. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.

Construction Demolition Waste: One (1) construction demolition waste site is mapped within the 0.5 mile search radius. Lake Station Solid Fill Site, 3400 East 20th Avenue, Gary, AID 25095, is mapped adjacent to the project area southwest of the I-80/I-94 and Ripley Street/SB US 6/SR 51 interchange. The VFC did not contain any files concerning this site. Coordination with IDEM will occur to see if there are any available files or documentation for the site.

Solid Waste Landfill: Four (4) solid waste landfill sites are located within the 0.5 mile search radius. The nearest site, the Gary Landfill, 15th Avenue, Gary, AID 25093, is mapped adjacent to the project area. The VFC did not contain any files concerning this site. Coordination with IDEM will occur to see if there are any available files or documentation for the site.

LUST Sites:

- Amoco Oil Company Station No. 14152, 7530 Calumet Avenue, Hammond, AID 18623, is adjacent to the west of the project area at the southwest corner of 175th Street and Calumet Avenue. On January 8, 2014, IDEM issued a NFA Determination Approval Pursuant to IDEM RISC Guidance based on non-default, industrial for soil and default, residential for groundwater. Based on the ERC, recorded on October 2, 2013, the residual soil contamination is limited to an affected area near the pump island. Coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.
- Clark Store, 7410 South Kennedy Avenue, Hammond, AID 20431, is adjacent to the west of the project at the southwest corner of 174th Street and Kennedy Avenue. The USTs were removed from this former service station in 2017 and impacted soil was encountered. IDEM issued a Notice of Deficiency on January 3, 2020. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager Nawal Hopkins before further site activities occur.
- Speedway/Sm #8332, 7345 Kennedy Avenue, Hammond, AID 10493 is adjacent to the project area northeast of 174th Street and Kennedy Avenue. Seven (7) USTs were removed on November 10 and 11, 2020. On February 22, 2021, IDEM determined that the UST closure had been completed. On March 21, 2019, IDEM issued a NFA Approval Pursuant to RCG that states a Notice of Contamination was sent to City of Hammond. An ERC, recorded on February 21, 2019, restricts groundwater use, residential use, and has provisions for excavations and redevelopment. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.
- Pilot Corp #271, 2501 Burr Street, Gary, AID 13656, is adjacent to the project area at the southeast corner of 25th Avenue and Burr Street. A draft ERC was submitted to IDEM for this site on July 29, 2019. The draft ERC would prohibit residential and groundwater use and excavation underneath the existing pavement. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.
- Steel City, 3001 Grant Street, Gary, AID 14008, is a truck stop adjacent to the project area at the northeast corner of Grant Street and West 32nd Avenue. A draft ERC was submitted to IDEM for this site on September 8, 2020. On March 11, 2020, IDEM requested an ERC that prohibits residential and groundwater use, and maintenance of pavement. Based on data and maps in the April 30, 2020 Quarterly Monitoring Report, petroleum-impacted soil and groundwater is likely within existing right-of-way. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager Steven Baumann before further site activities occur.
- 0213 Clark Service Station, 2569 South Broadway, Gary, AID 19260, is adjacent to the project area at the northeast corner of West 26th Avenue and Broadway. IDEM issued this former service station a NFA Determination Approval Pursuant to IDEM RISC Guidance on September 11, 2012 based on non-default industrial for soil and groundwater. An ERC was recorded on June 19, 2012 that shows low levels of petroleum contaminants were present in soil and groundwater in 2011 and 2012. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.
- Lovely Mobil Inc, 3077 Broadway, Gary, AID 22953, is adjacent to the project area at the southeast corner of West 30th Avenue and Broadway. On July 20, 2005 IDEM issued a NFA letter based on non-default industrial closure, and an ERC was referred to; coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.

- RYR Broadway (Former Shell), 3501 Broadway, Gary, AID 18863, is adjacent to the project area at the southeast corner of 35th Avenue and Broadway. IDEM issued a NFA Approval Determination Pursuant to RCG on June 23, 2017 that was unconditional for soil exposure and conditional for groundwater and vapor intrusion. Based on the March 16, 2017 NFA Request, low levels of contaminated groundwater remained on-site and within existing right-of-way near the intersection of Broadway and West 35th Avenue. An ERC was recorded on February 17, 2017 that includes residential and groundwater use restrictions. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination with Lynette Schrowe (LSchrowe1@idem.in.gov) will occur before further site activities occur.

Open Dump Waste Sites: One (1) open dump waste site is located within the 0.5 mile search radius. Highland-Dump, 3994 179th Street, Highland, is adjacent to the project area at the corner of Cline Avenue and 179th Street. The VFC did not contain any files concerning this site. Coordination with IDEM will occur to determine if there are any available records or files.

Institutional Control Site: Lake Sandy Jo M&M Landfill, 3615 West 25th Avenue, FID 7500077, has multiple ICs and is discussed above under Superfund Sites. This site had a Declaration of Restriction filed with Lake County, Indiana on September 6, 1995 that restricts on-site residential and groundwater use and has excavation requirements. Coordination will be conducted with the IDEM Project Manager Justin Hodgson before further site activities occur.

NPDES Facilities: Twenty-one (21) NPDES facilities are adjacent to the project area. Coordination will be required for facilities with active permits.

NPDES Pipe Locations: Three (3) NPDES pipe locations are adjacent to the project area. Coordination will be required for facilities with active permits.

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

INDOT ESD concurrence: Nicole Fohey-Breting (Signature)
Digitally signed by Nicole Fohey-Breting
Date: 2021.08.12 11:30:58 -04'00'

Prepared by:
Keaton Veldkamp
Associate Environmental Planner
Parsons

Graphics:

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

SITE LOCATION: YES

INFRASTRUCTURE: YES

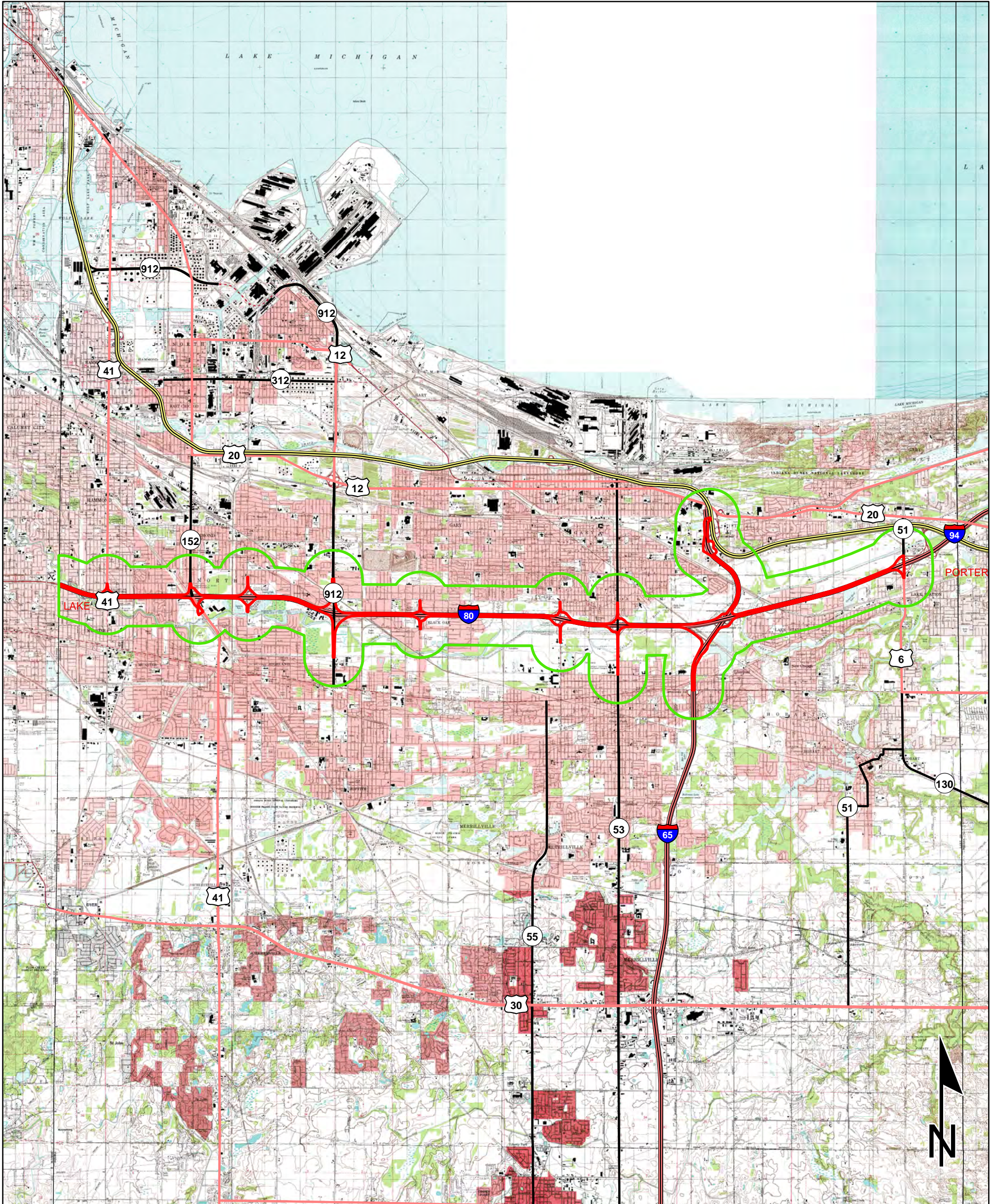
WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: YES

Red Flag Investigation - Site Location

Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
Des. 1901643, TSMO
Lake 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

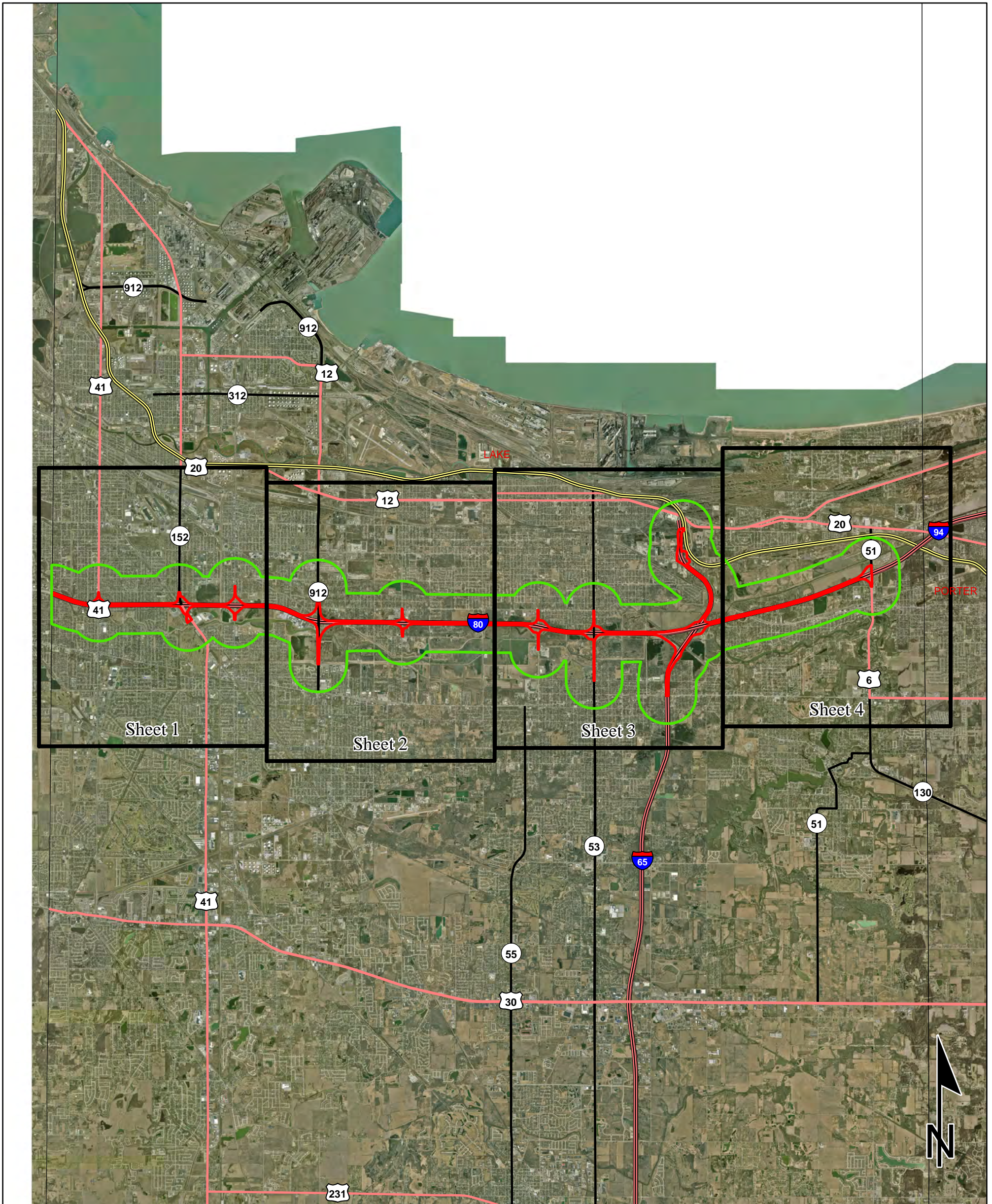
2 1 0 2 Miles

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

CALUMET CITY, HIGHLAND,
GARY, AND PORTAGE
QUADRANGLES
INDIANA

Red Flag Investigation - Index

Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana



Sources: 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.

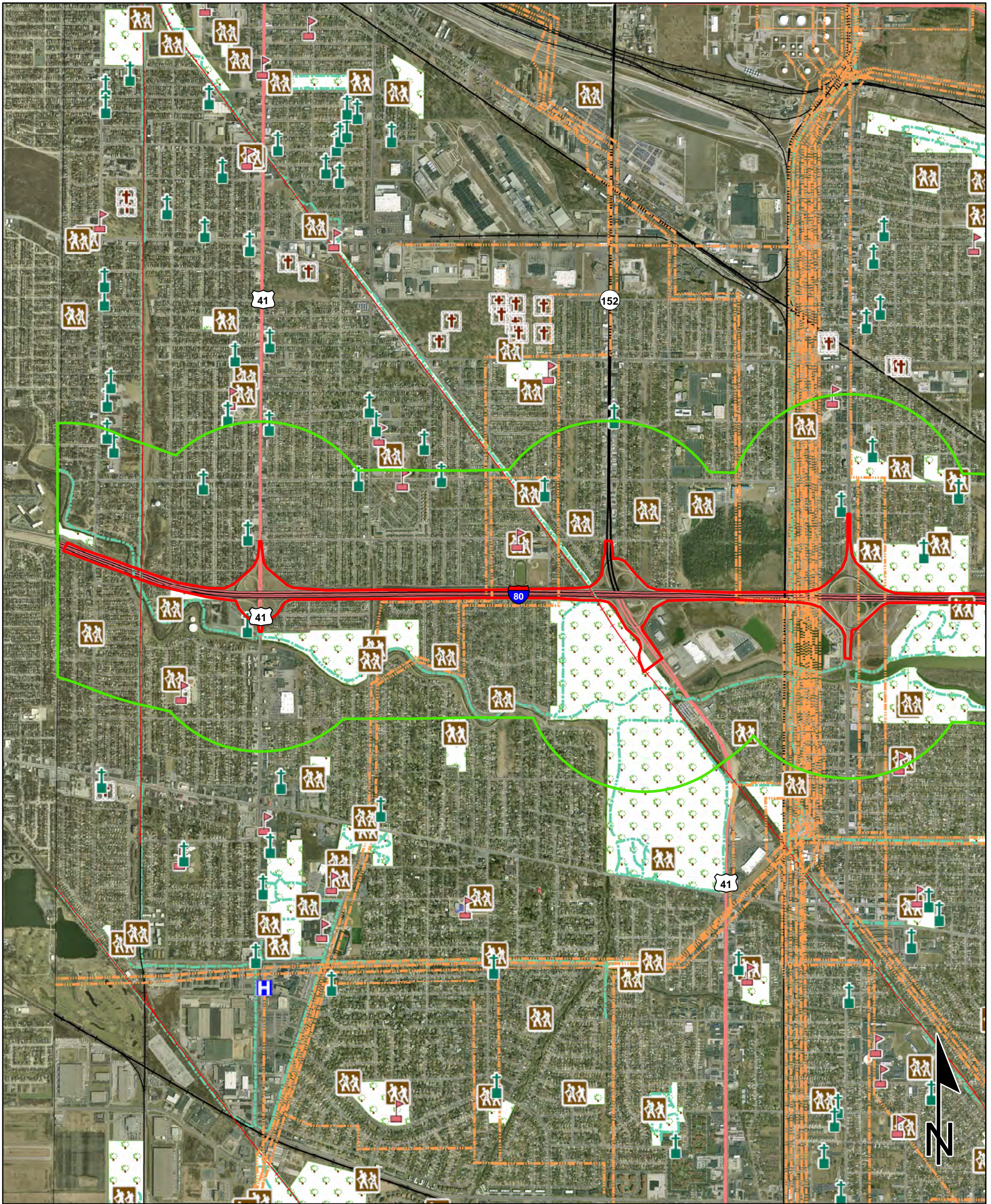
-  Project Area
-  Halfmile Buffer
-  Index Sheet

Red Flag Investigation - Infrastructure

Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51

Des. 1901643, TSMO

Lake County, Indiana



Sources: 0.5 0.25 0 0.5 Miles

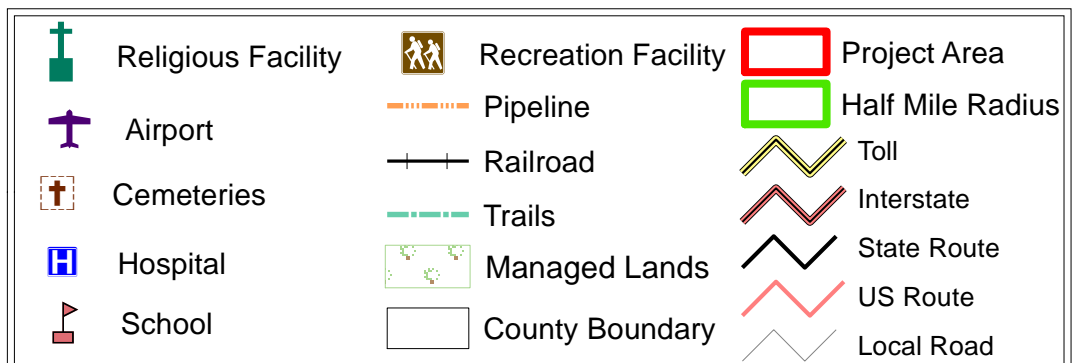
Non Orthophotography

Data - Obtained from the State of Indiana Geographical Information Office Library

Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)

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.

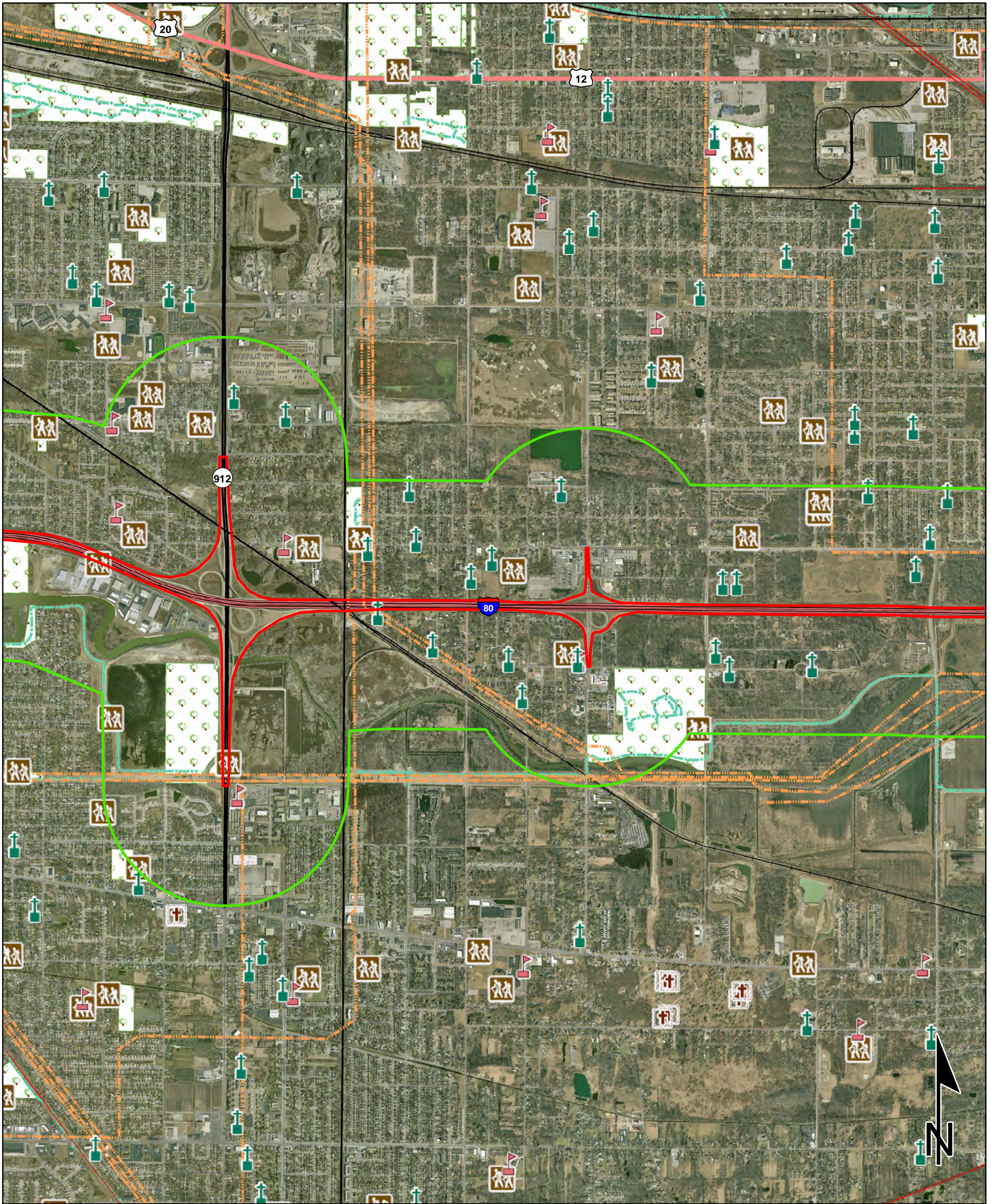


Red Flag Investigation - Infrastructure

Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51

Des. 1901643, TSMO

Lake County, Indiana



Sources: 0.5 0.25 0 0.5 Miles

Non Orthophotography

Data - Obtained from the State of Indiana Geographical Information Office Library

Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)

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.

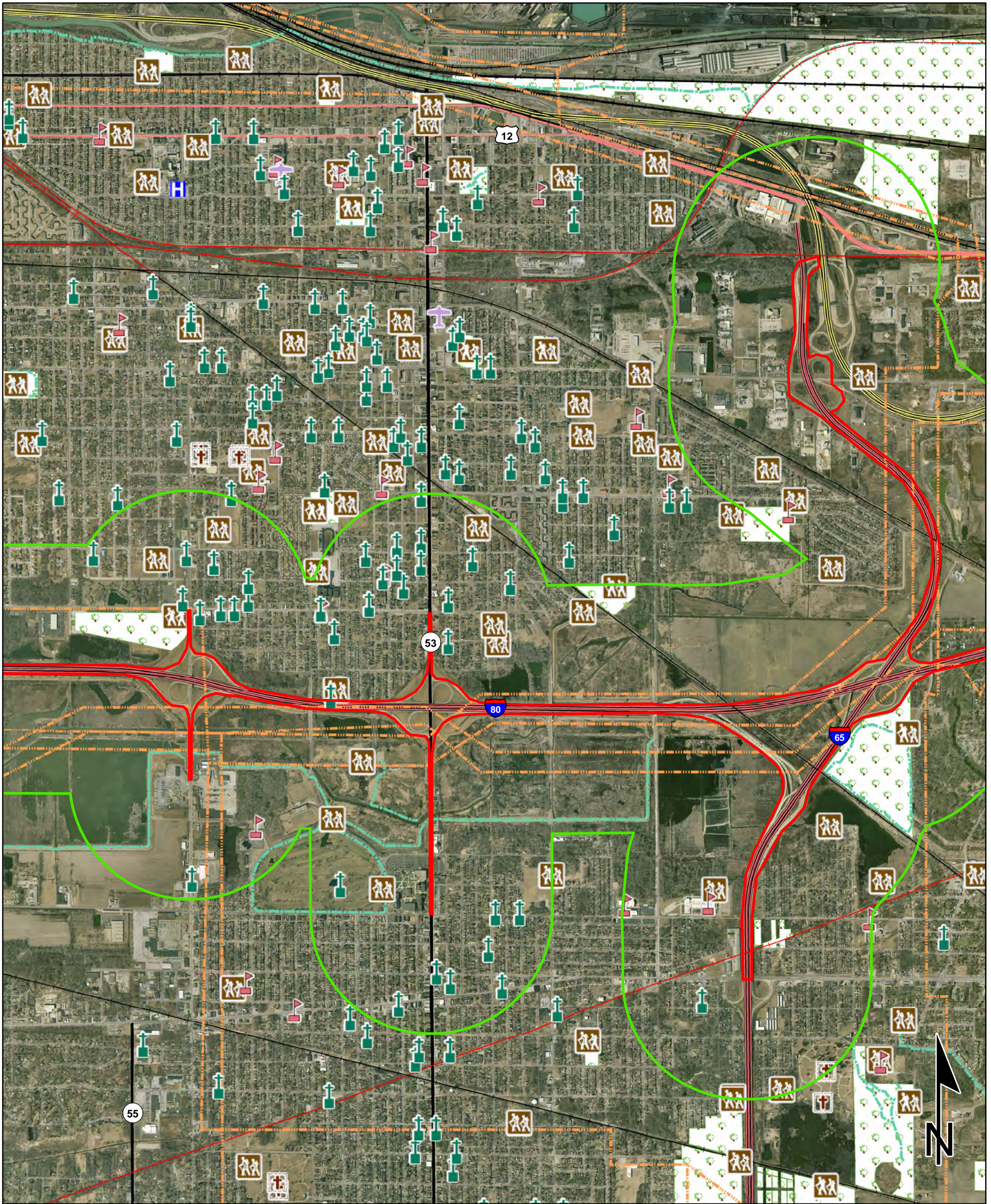
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Infrastructure

Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51

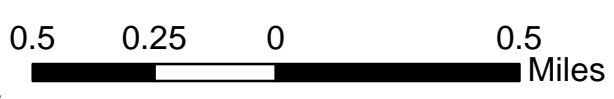
Des. 1901643, TSMO

Lake 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. This information is not warranted for accuracy or other purposes.



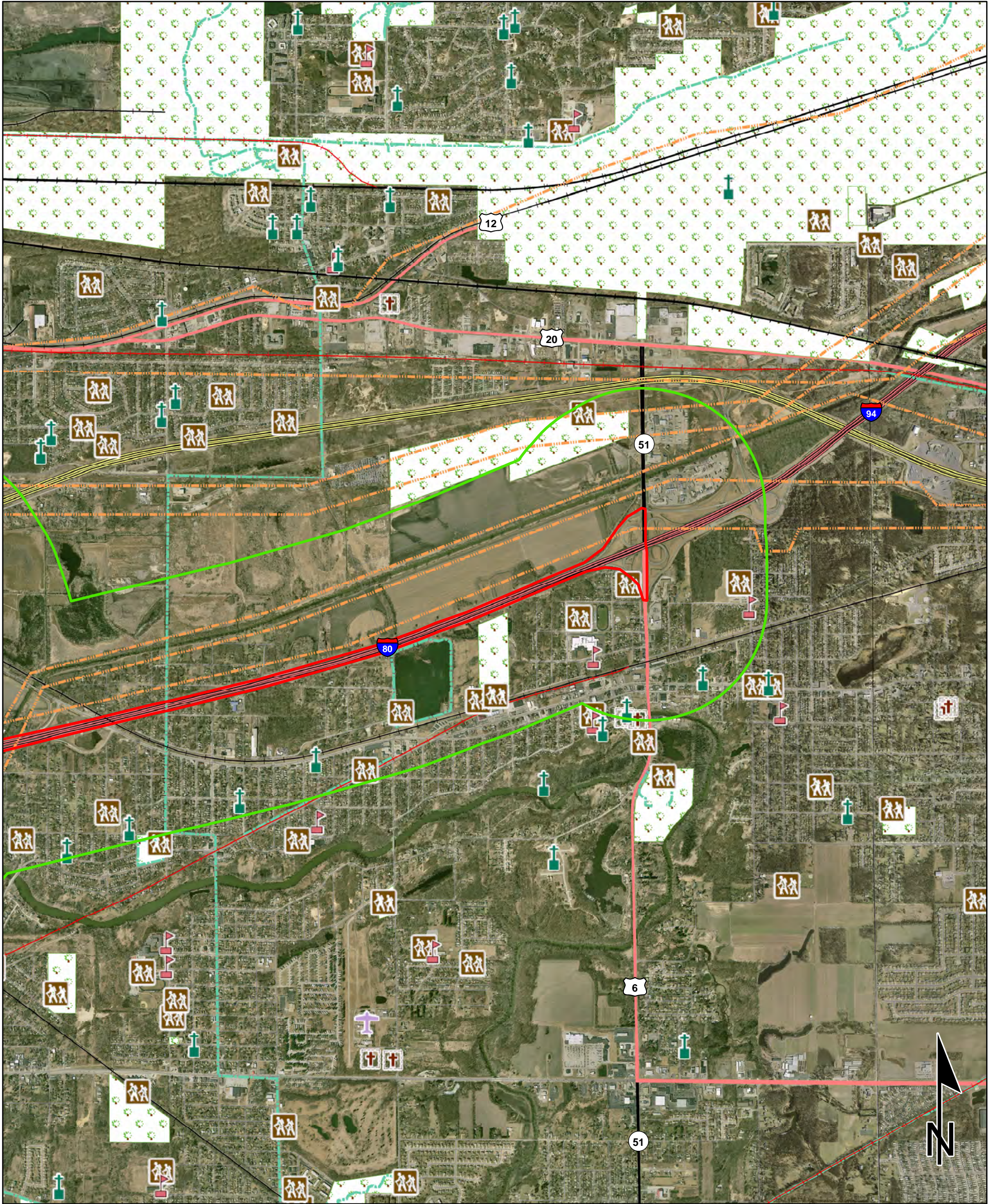
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
	County Boundary		US Route		Local Road

Red Flag Investigation - Infrastructure

Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51

Des. 1901643, TSMO

Lake County, Indiana



Sources: 0.5 0.25 0 0.5 Miles

Non Orthophotography

Data - Obtained from the State of Indiana Geographical Information Office Library

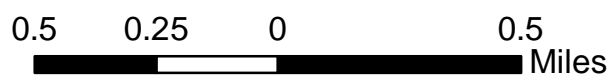
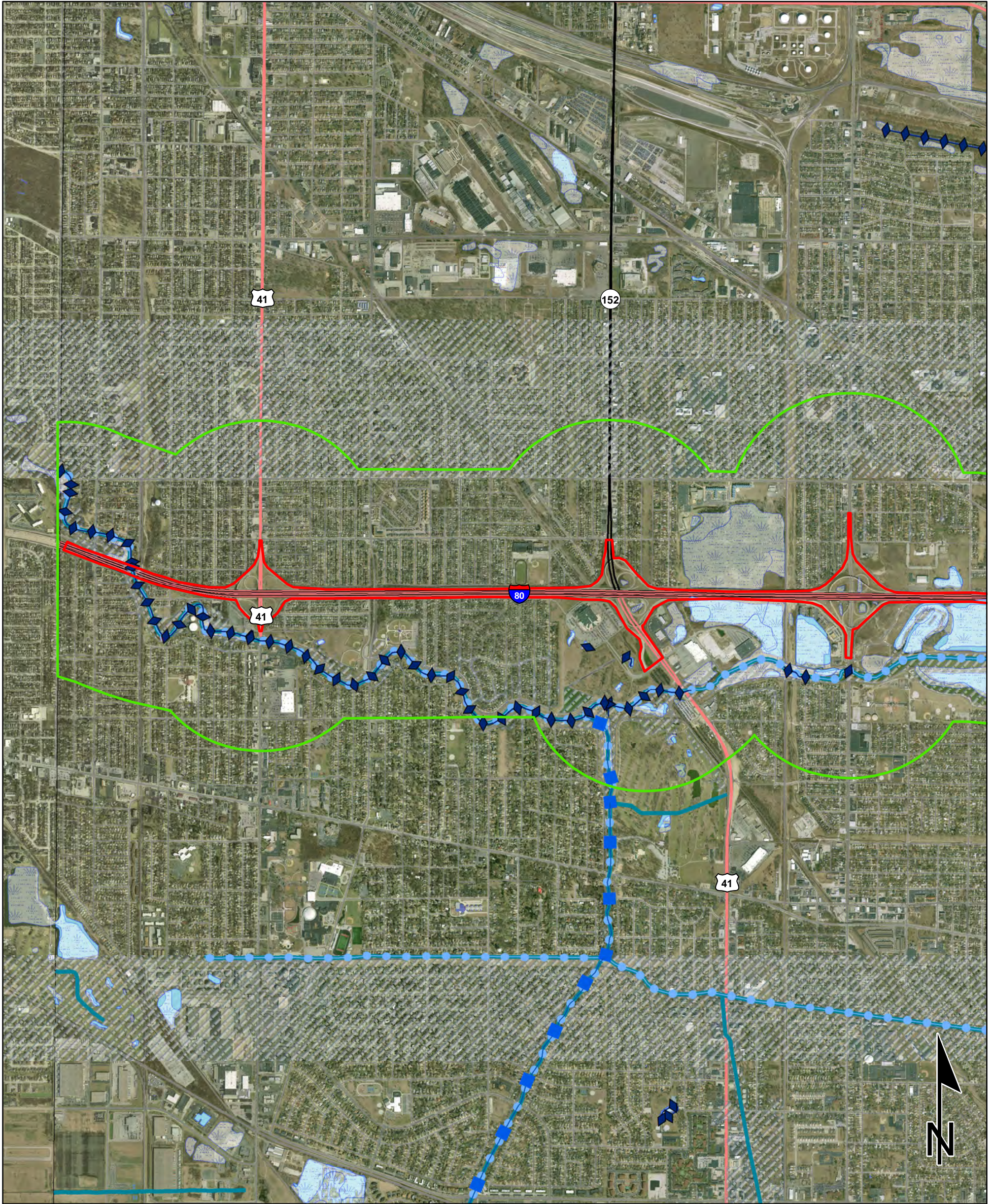
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)

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
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana

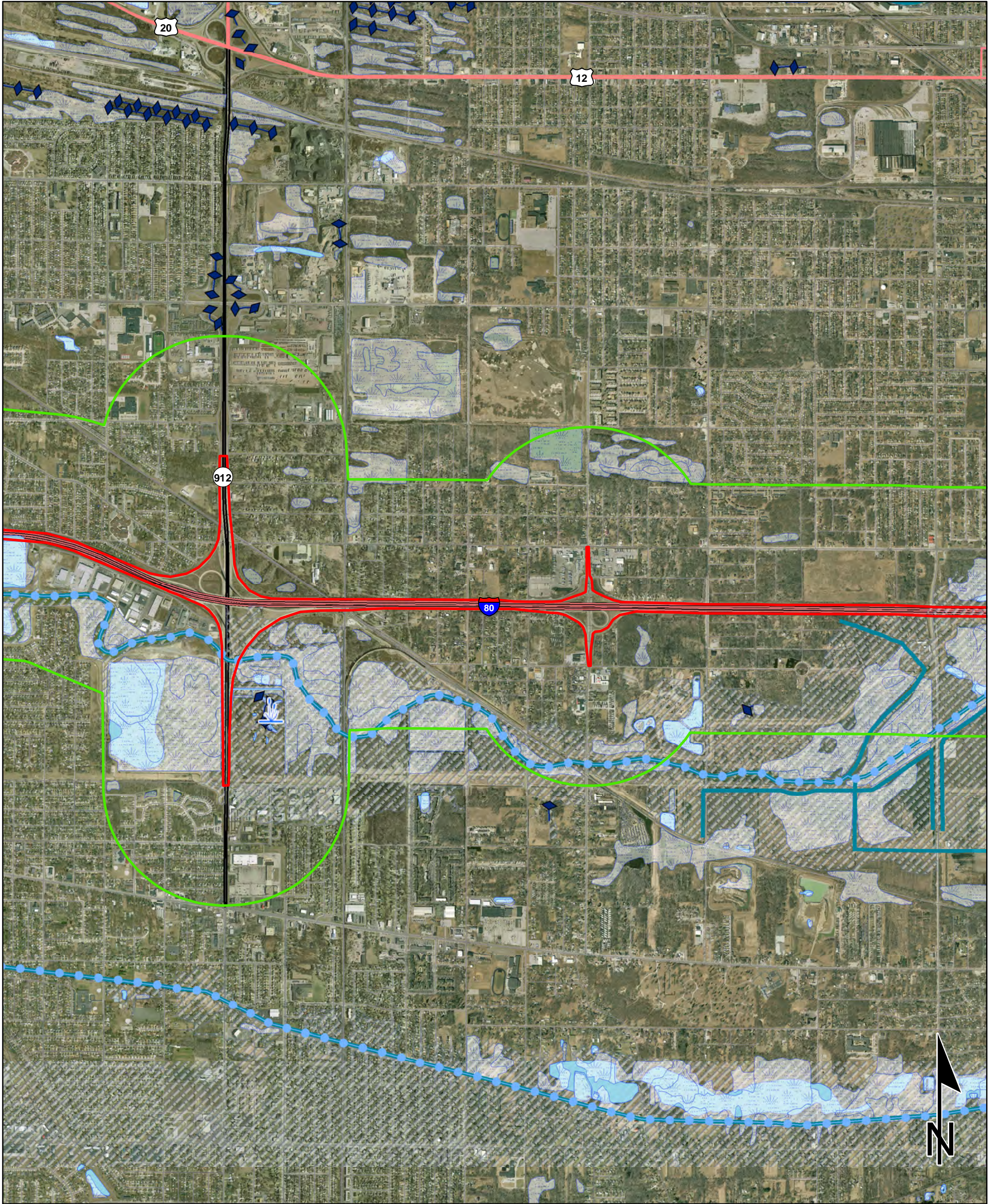


Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

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

Red Flag Investigation - Water Resources
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana



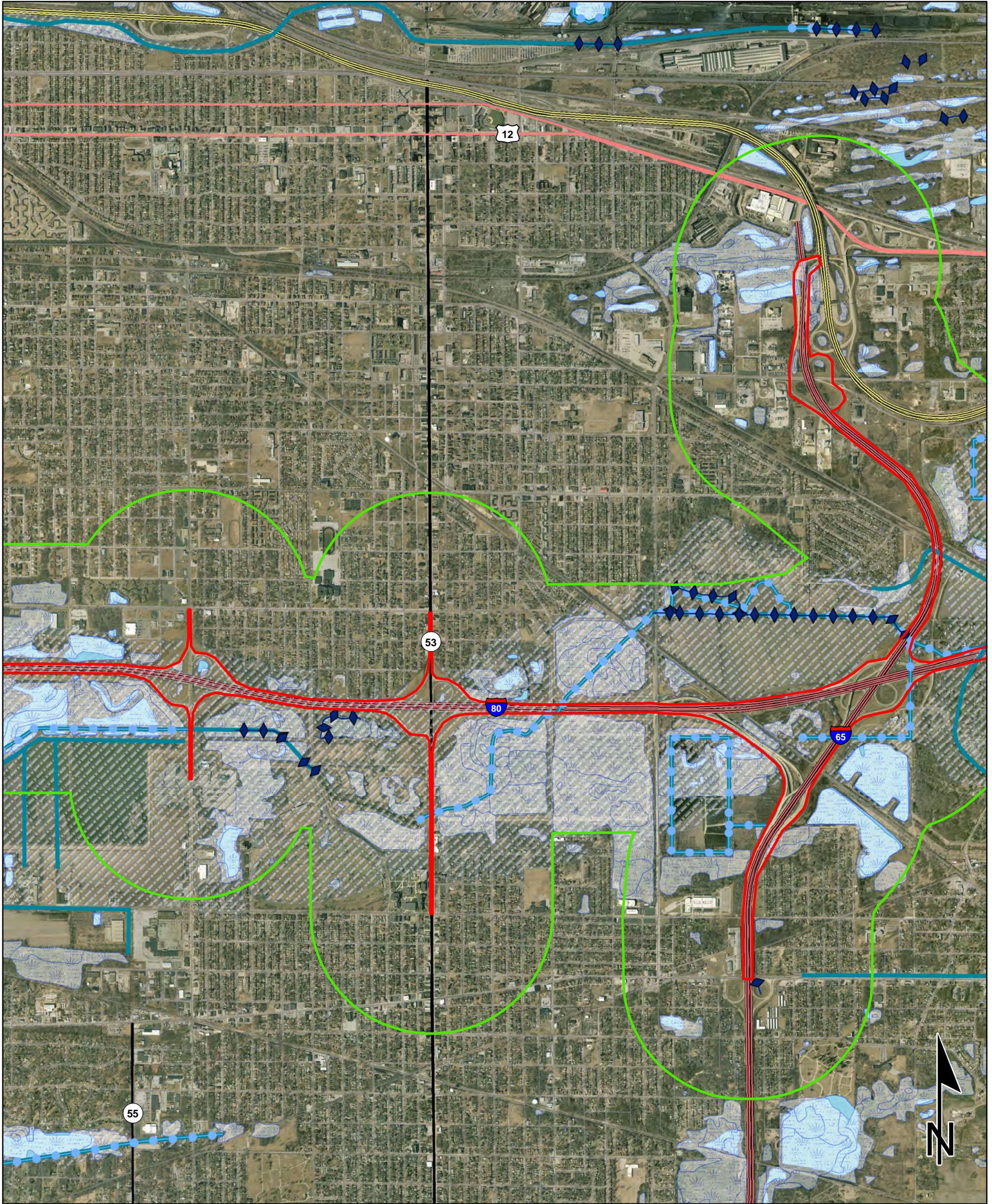
Sources: 0.5 0.25 0 0.5 Miles

Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 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.

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

Red Flag Investigation - Water Resources
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana

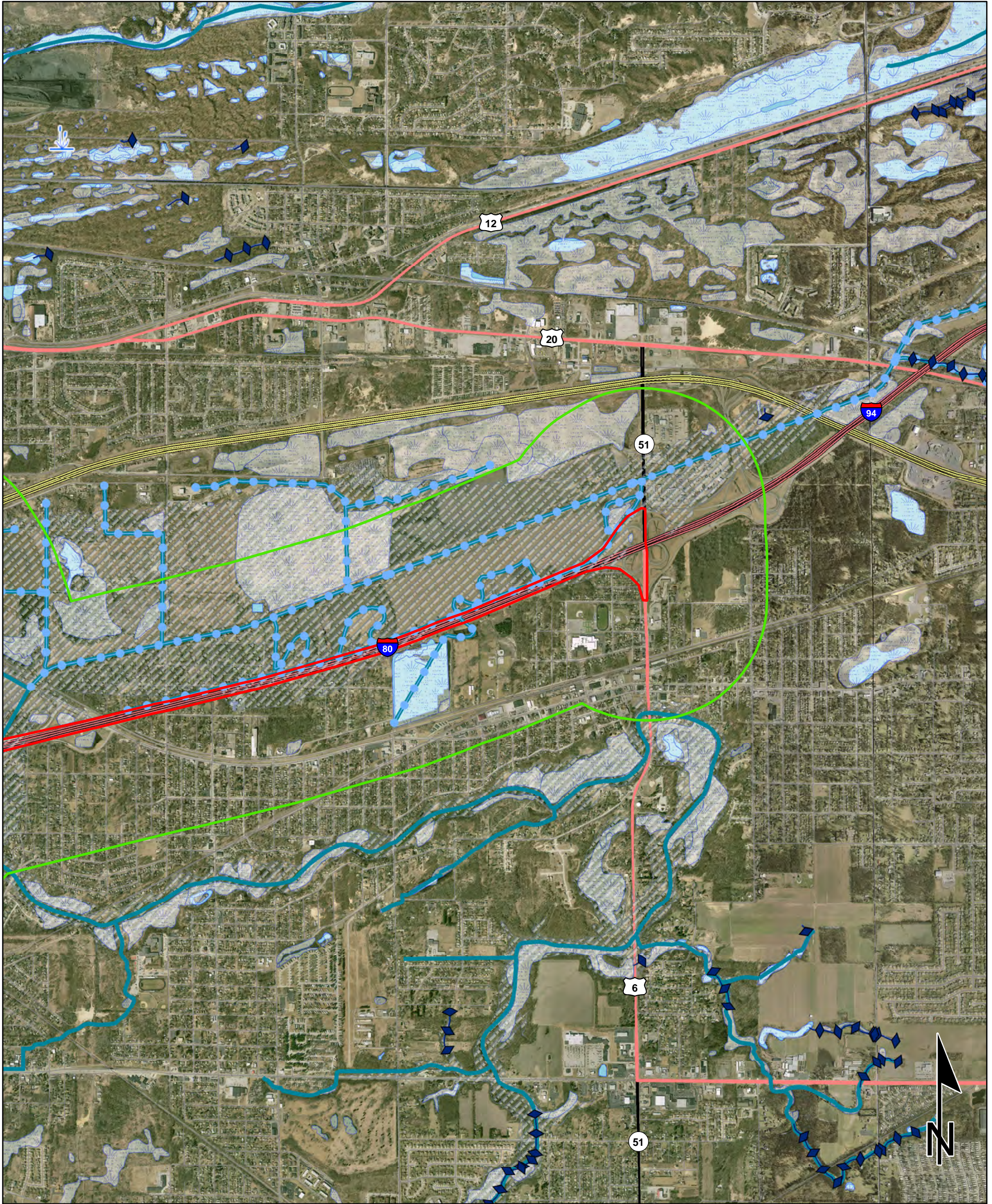


Sources: 0.5 0.25 0 0.5 Miles
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

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

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

Red Flag Investigation - Water Resources
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana



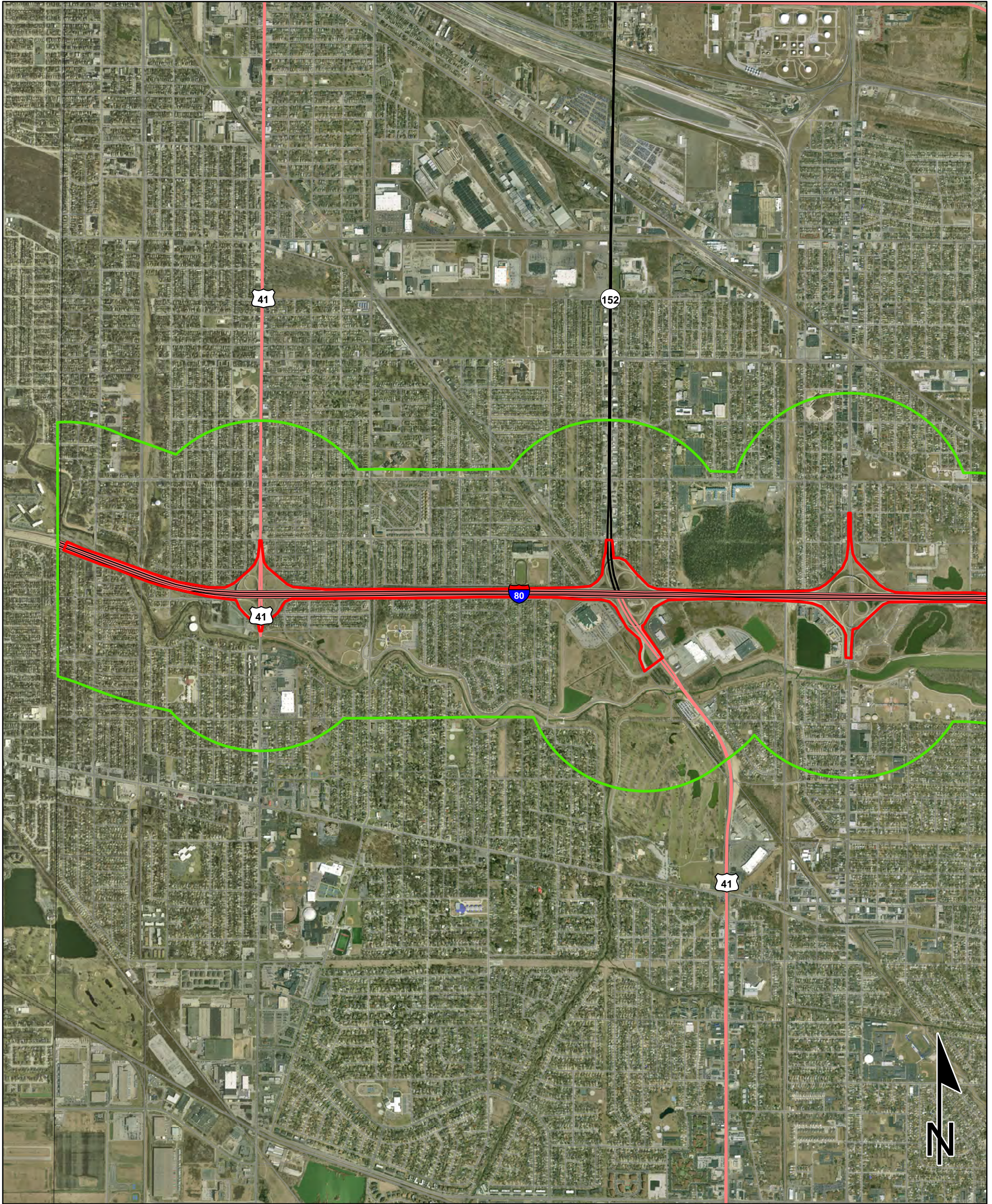
Sources: 0.5 0.25 0 0.5 Miles

Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 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.

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

Red Flag Investigation - Mining/Mineral Exploration
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana



0.5 0.25 0 0.5 Miles

Sources:

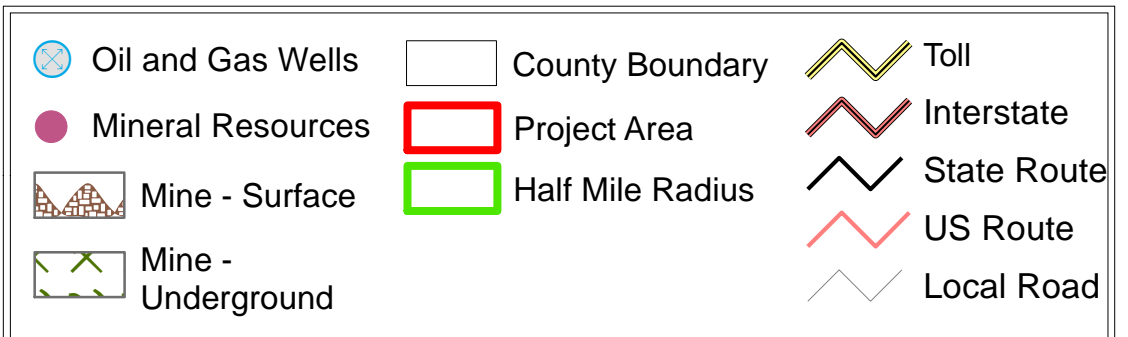
Non Orthophotography

Data - Obtained from the State of Indiana Geographical Information Office Library

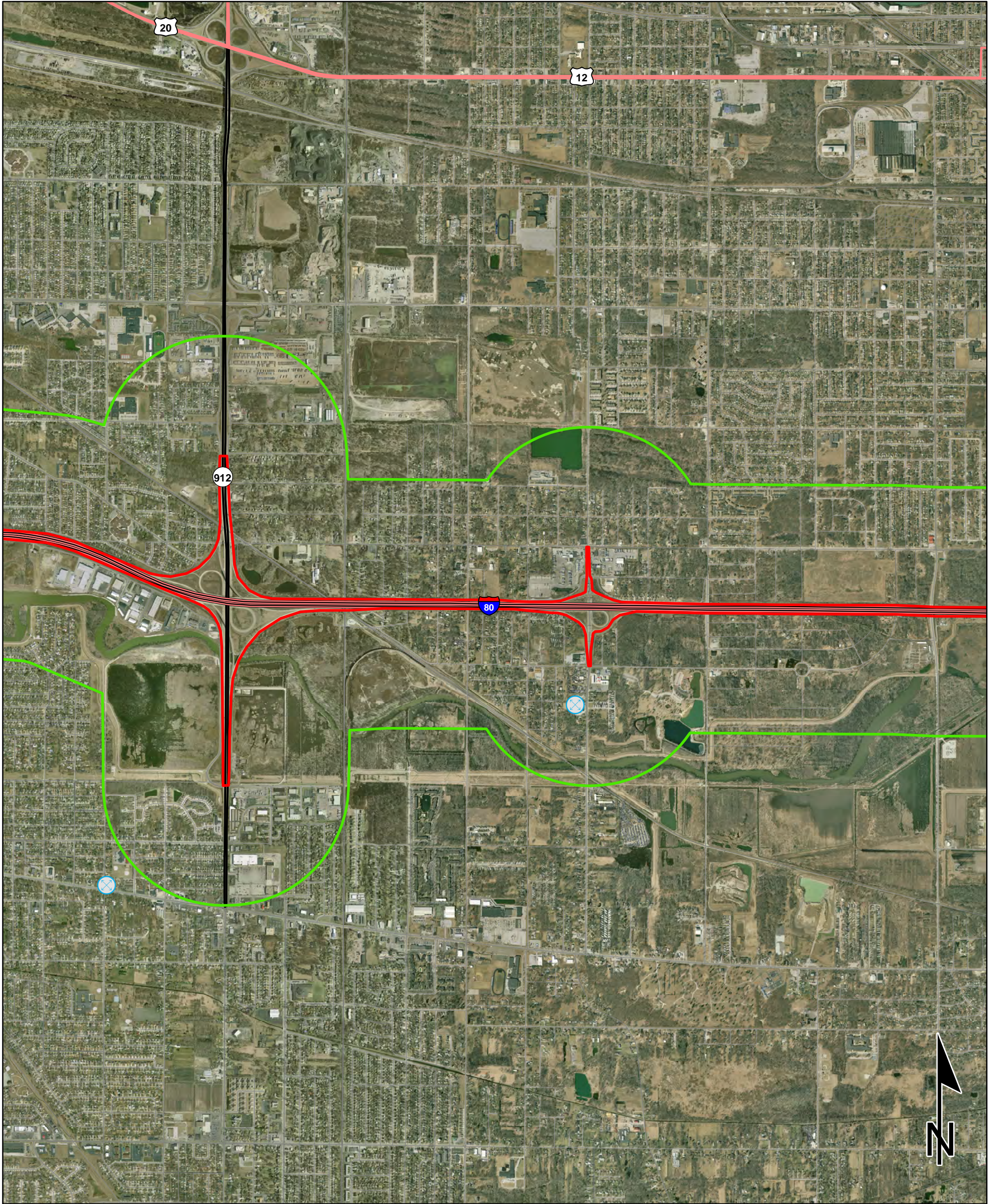
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)

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

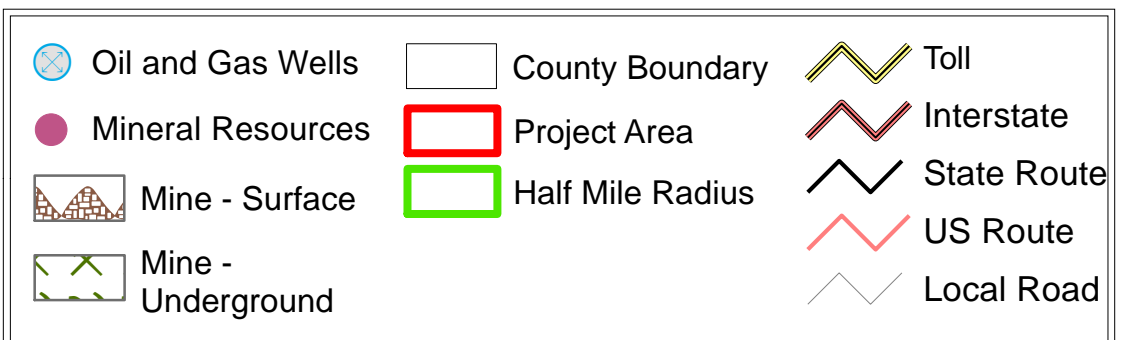
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



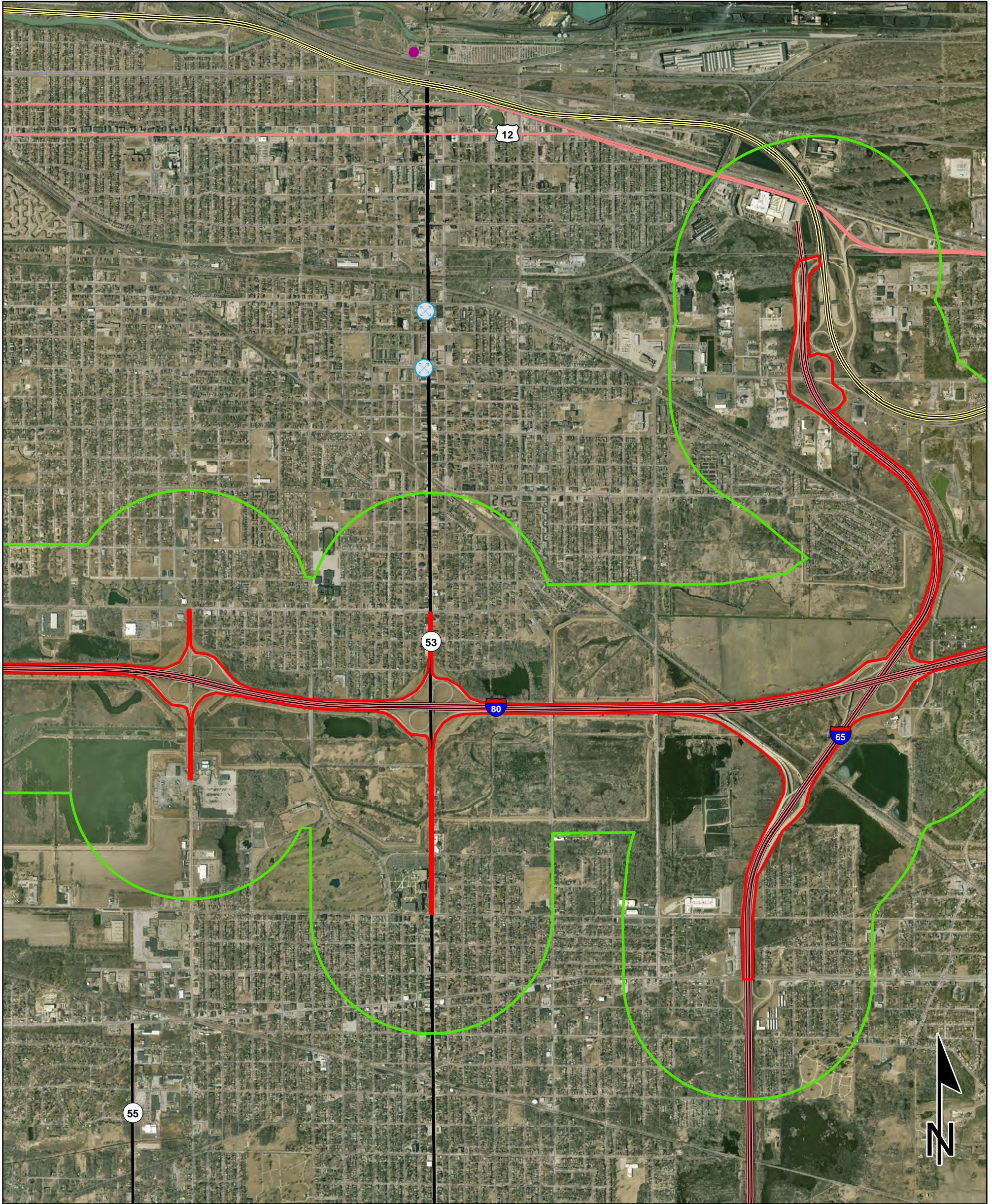
Red Flag Investigation - Mining/Mineral Exploration
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana



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. This information is not warranted for accuracy or other purposes.



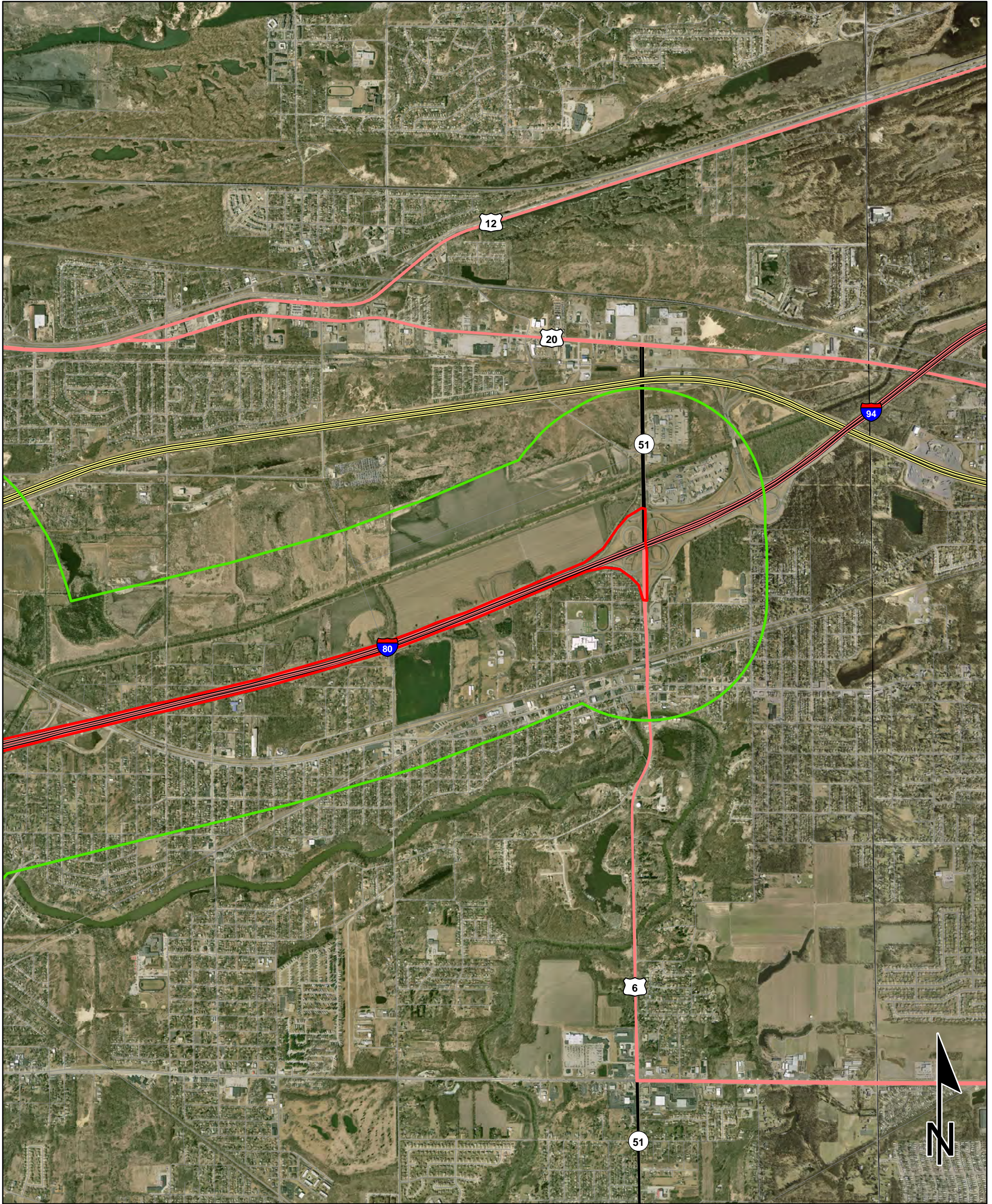
Red Flag Investigation - Mining/Mineral Exploration
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana



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. This information is not warranted for accuracy or other purposes.

Oil and Gas Wells	County Boundary	Toll
Mineral Resources	Project Area	Interstate
Mine - Surface	Half Mile Radius	State Route
Mine - Underground		US Route
		Local Road

Red Flag Investigation - Mining/Mineral Exploration
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana



0.5 0.25 0 0.5 Miles

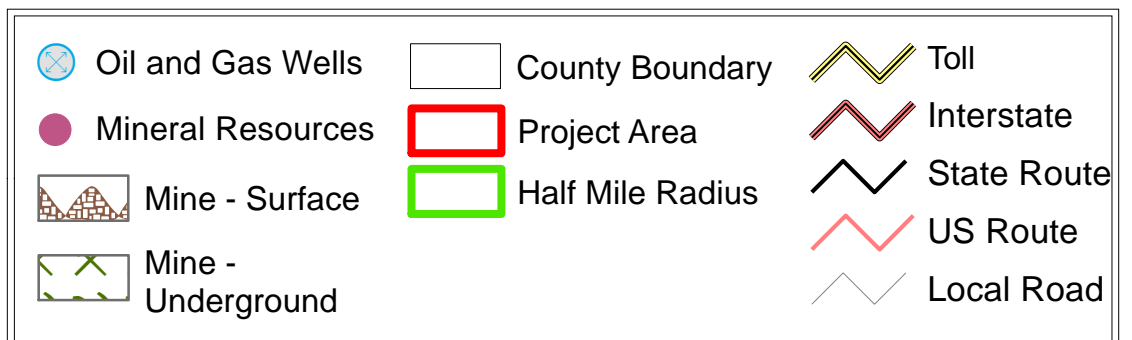
Sources:
Non Orthophotography

Data - Obtained from the State of Indiana Geographical Information Office Library

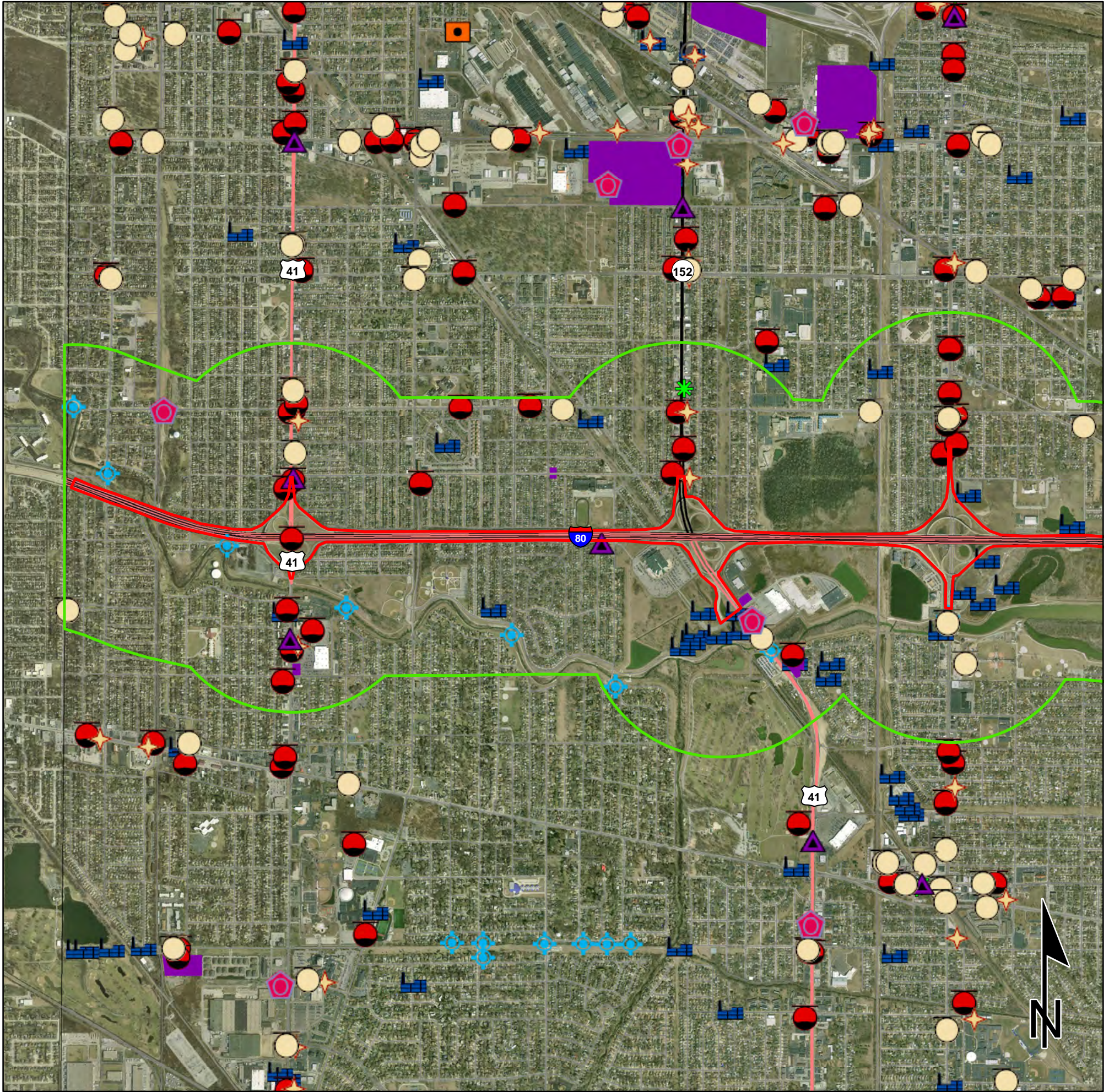
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)

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

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



Red Flag Investigation - Hazardous Material Concerns
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake 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 Facilites		Voluntary Remediation Program		Local Road
	NPDES Pipe Locations		Waste Transfer Station		
	Open Dump Waste Site				

0.5 0.25 0 0.5 Miles

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

Sources:

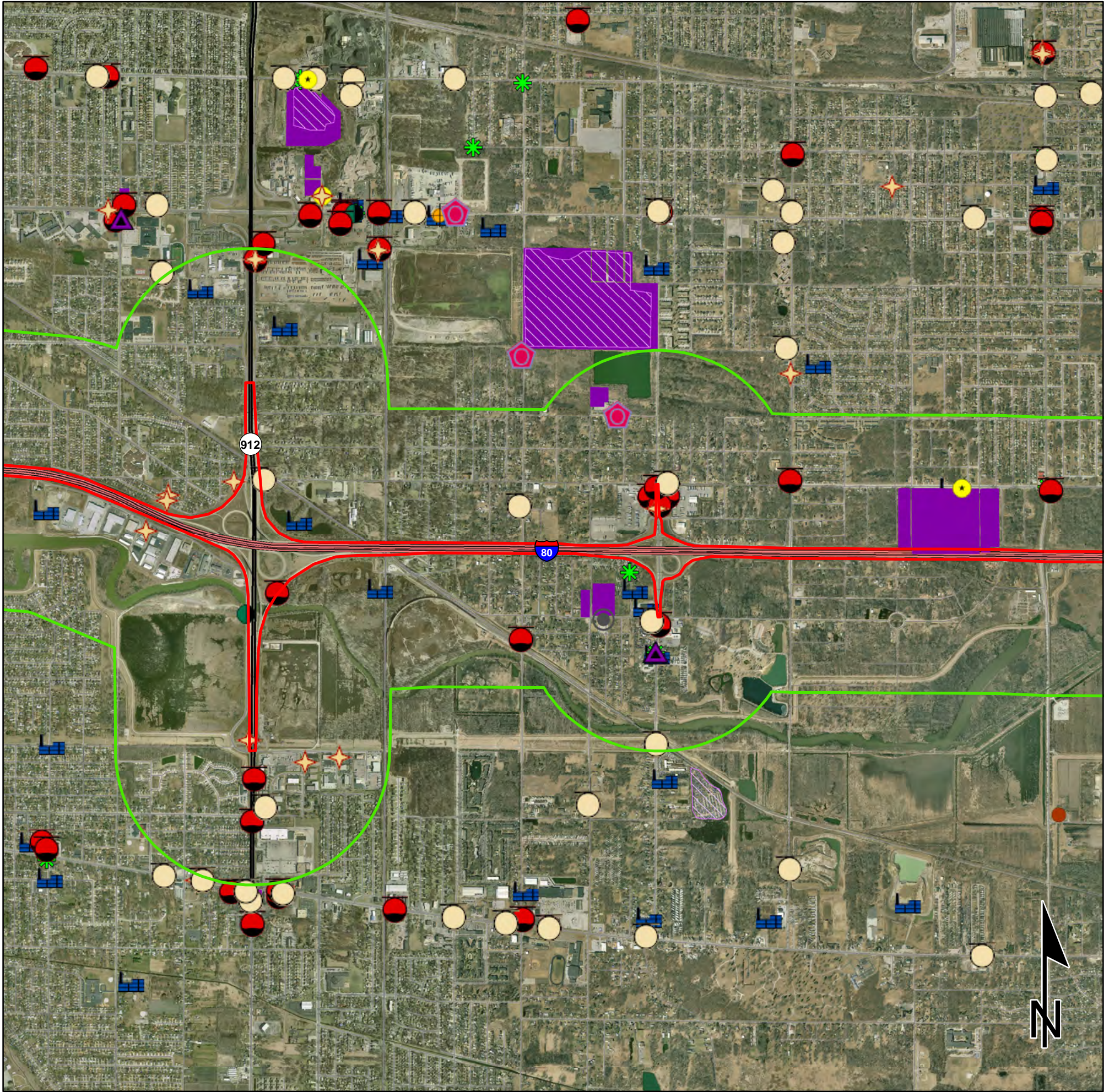
Non Orthophotography

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

Red Flag Investigation - Hazardous Material Concerns
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana



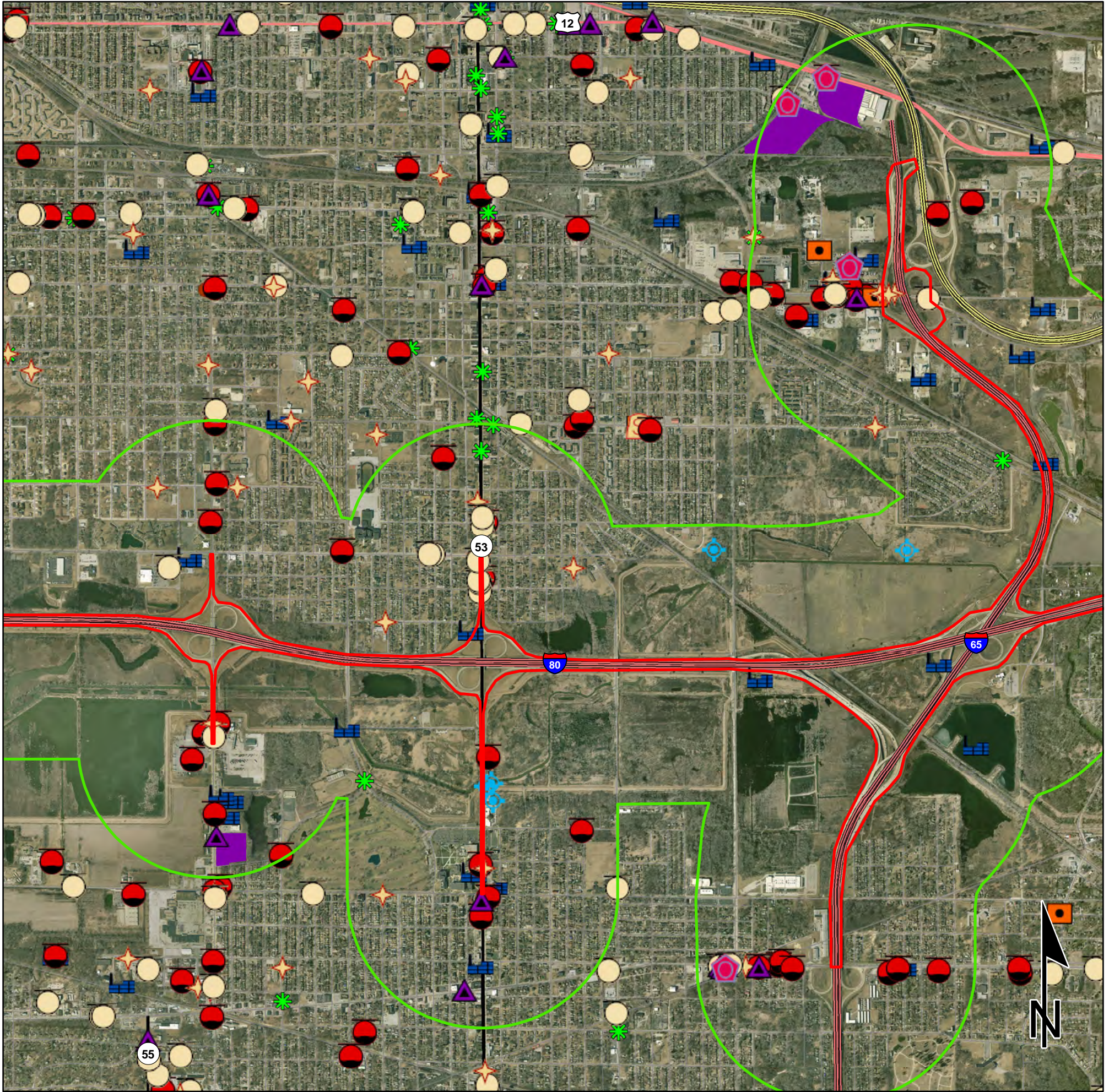
	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation		Septage Waste Site		Project Area
	Notice_of_Contamination		Solid Waste Landfill		Half Mile Radius
	Construction/Demolition Site		State Cleanup Site		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 Facilites		Voluntary Remediation Program		Local Road
	NPDES Pipe Locations		Waste Transfer Station		
	Open Dump Waste Site				

0.5 0.25 0 0.5
 Miles

This map is intended to serve as an aid in graphic representation only. 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

Red Flag Investigation - Hazardous Material Concerns
Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake County, Indiana



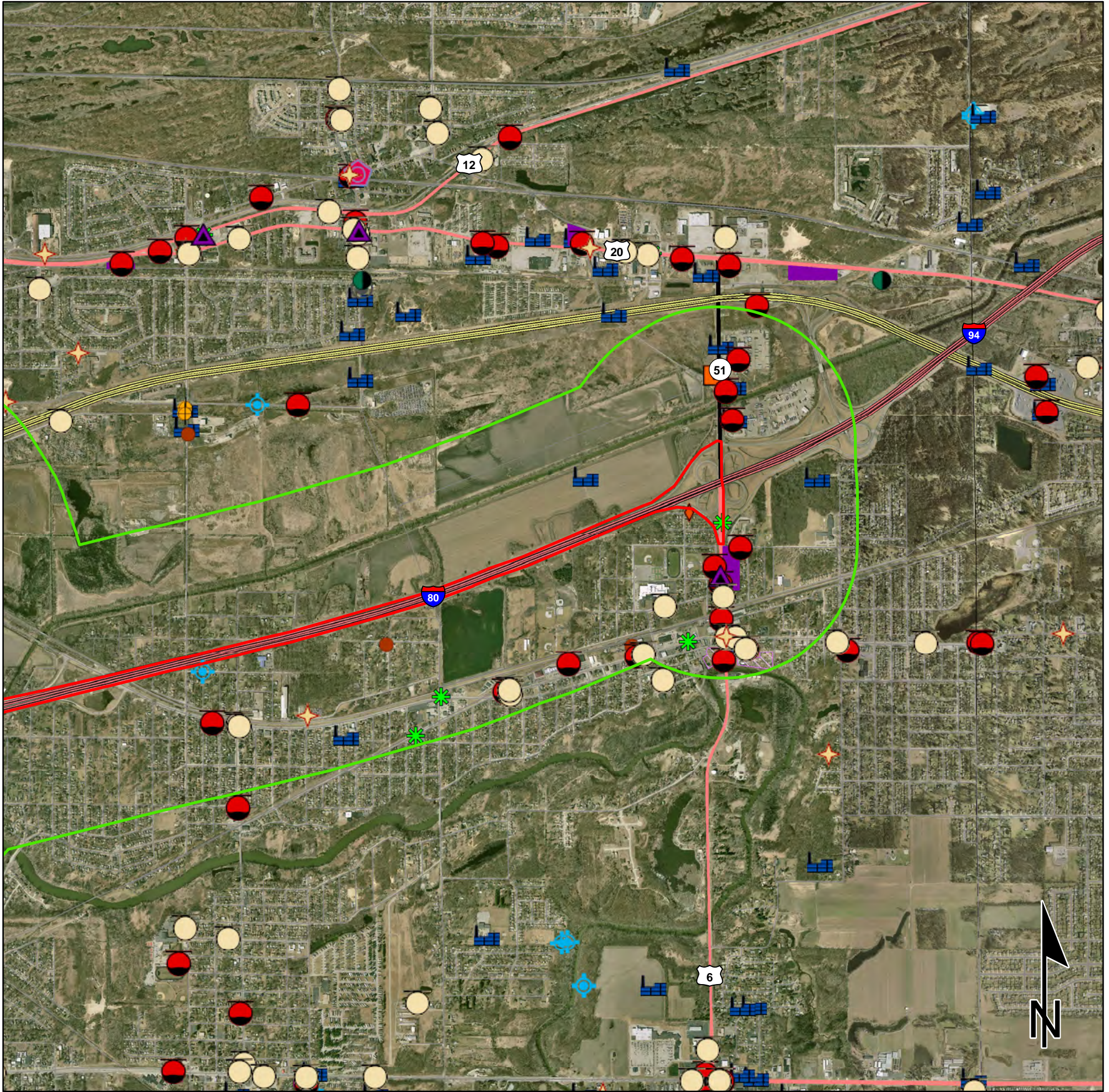
	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation		Septage Waste Site		Project Area
	Notice_of_Contamination		Solid Waste Landfill		Half Mile Radius
	Construction/Demolition Site		State Cleanup Site		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				

0.5 0.25 0 0.5
 Miles

This map is intended to serve as an aid in graphic representation only. 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

Red Flag Investigation - Hazardous Material Concerns
 Borman Expressway, I-80/I-94, Illinois State Line east 15 miles to Ripley Street/US 6/SR 51
 Des. 1901643, TSMO
 Lake 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				

0.5 0.25 0 0.5
 Miles

This map is intended to serve as an aid in graphic representation only. 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: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
<i>Plethobasus cyphus</i>	Sheepnose	LE	SE	G3	S1
<i>Venustaconcha ellipsiformis</i>	Ellipse			G4	S2
Insect: Coleoptera (Beetles)					
<i>Nicrophorus americanus</i>	American Burying Beetle	LE	SX	G3	SX
Insect: Homoptera					
<i>Bruchomorpha dorsata</i>			SR	GNR	S2
<i>Bruchomorpha extensa</i>	The Long-nosed Elephant Hopper		SR	GNR	S2S3
<i>Bruchomorpha oculata</i>			SR	GNR	SNR
<i>Chlorotettix fallax</i>	Deceptive Chlorotettix Leafhopper		SR	GNR	S1S2
<i>Cicadula straminea</i>	Straw-colored Sedge Leafhopper		ST	GNR	S1S2
<i>Cosmotettix bilineatus</i>	Two-lined cosmotettix		SR	GNR	S1S2
<i>Dorydiella kansana</i>	Kansas Spikerush Leafhopper		SR	GNR	S2S3
<i>Flexamia pyrops</i>	The Long-nose Three-awn Leafhopper		ST	GNR	S1
<i>Flexamia reflexus</i>	Indiangrass Flexamia		SR	GNR	S1S2
<i>Graminella mohri</i>	Mohr's Switchgrass Leafhopper		SE	GNR	S1
<i>Laevincephalus acus</i>	Pointed Fen Laevincephalus		SR	GNR	S1S2
<i>Limotettix divaricatus</i>			ST	GNR	SNR
<i>Mesamia nigradorsum</i>	Black-banded Sunflower Leafhopper		WL	GNR	S2S3
<i>Paraphilaenus parallelus</i>	A Spittle Bug		ST	GNR	S1
<i>Paraphlepsius lobatus</i>	Lobed Paraphlepsius Leafhopper		SR	GNR	S2
<i>Paraphlepsius maculosus</i>	Peppered Paraphlepsius Leafhopper		ST	GNR	S1S2
<i>Philaenarcys killa</i>	Great Lakes dune spittlebug		SR	GNR	S2S3
<i>Polyamia caperata</i>	Little Bluestem Polyamia		SR	GNR	S2
<i>Polyamia herbida</i>	The Prairie Panic Grass Leafhopper		ST	GNR	S2
<i>Prairiana kansana</i>	The Kansas Prairie Leafhopper		SE	GNR	S1
<i>Prosapia ignipectus</i>	Red-legged Spittle Bug		SR	G4	S2
Insect: Hymenoptera					
<i>Bombus affinis</i>	Rusty-patched Bumble Bee	LE	SE	G2	S1
<i>Dolichoderus plagiatus</i>				G5	S2
<i>Formica glacialis</i>				G5	S2
<i>Lasius flavus</i>				G5	S2
<i>Lasius minutus</i>				GNR	S1
<i>Lasius speculiventris</i>				GNR	S1
<i>Myrmica lobifrons</i>				G5	S1
<i>Solenopsis texana texana</i>				GNRTNR	S1

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: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
Insect: Lepidoptera (Butterflies & Moths)					
<i>Acleris semipurpurana</i>	Oak Leaftier Moth		SR	GNR	SNR
<i>Acrionicta dactylina</i>	Fingered Dagger Moth		SR	G5	SNR
<i>Acrionicta funeralis</i>	Funerary Dagger Moth		SR	G5	SNR
<i>Aethes patricia</i>			SE	G3G4	S1
<i>Agrotis stigmata</i>	Spotted Dart Moth		ST	G4	S1S2
<i>Agrotis vetusta</i>	Old Man Dart		SR	G5	S2
<i>Ancylis semiovana</i>			SR	GNR	S2S3
<i>Apamea burgessi</i>	A Noctuid Moth		ST	G4	S1
<i>Apamea indocilis</i>	The Spastic Apamea		ST	G5	S1S3
<i>Apamea nigrior</i>	Black-dashed Apamea		SR	G5	S2S3
<i>Apantesis virguncula</i>	Little Virgin Tiger Moth		SR	G5	S1S2
<i>Atrytonopsis hianna</i>	Dusted Skipper		ST	G4G5	S2S3
<i>Boloria selene myrina</i>	Silver-bordered Fritillary		ST	G5T5	S2S3
<i>Capis curvata</i>	Curved Halter Moth		ST	G5	S2S3
<i>Capsula laeta</i>	Red Sedge Borer		ST	G4	S1S2
<i>Caradrina meralis</i>	The Rare Sand Quaker		ST	G5	S2
<i>Catocala antinympha</i>	The Sweet Fern Underwing		SE	G5	S1
<i>Catocala gracilis</i>	Graceful Underwing		SR	G5	S2S3
<i>Catocala praeclara</i>	Praeclara Underwing		SR	G5	S2S3
<i>Coenochroa illibella</i>	Dune Panic Grass Moth		SR	GNR	S2S3
<i>Crambus bidens</i>	Forked Grass-veneer		SR	GNR	SNR
<i>Cyclophora pendulinaria</i>	Sweetfern Geometer		SR	G5	SNR
<i>Cyenia collaris</i>			ST	G4	S2S3
<i>Danaus plexippus</i>	Monarch	C	WL	G4	S4S5B
<i>Dargida rubripennis</i>	The Pink Streak		ST	G3G4	S1
<i>Dichagyris acclivis</i>	A Noctuid Moth		ST	G4G5	S2
<i>Dichagyris grotei</i>	Grote's Black-tipped Quaker		ST	G4	S2
<i>Dichomeris aleatrix</i>	Aleatrix dichomeris			GNR	S1S2
<i>Digrammia eremiata</i>	The Goat's Rue Looper		SR	G4	S2S3
<i>Digrammia mellistrigata</i>	A Geometrid Moth		SR	G5	SNR
<i>Erynnis lucilius</i>	Columbine Duskywing		SE	G2G3	SH
<i>Erynnis martialis</i>	Mottled Duskywing		WL	G3	S3
<i>Erynnis persius persius</i>	Persius Duskywing		SE	G5T1T3	S1
<i>Euchloe olympia</i>	Olympia Marble		ST	G5	S2S3
<i>Eucloptocnemis fimbriaris</i>	Fringed Dart		ST	G4	S1
<i>Eucosma bilineana</i>			SR	GNR	S1S2
<i>Eucosma bipunctella</i>	A Moth		SR	GNR	S1S2
<i>Eucosma giganteana</i>	Giant Eucosma		SR	GNR	S1S2
<i>Eucosma ochroterminana</i>	Buff-tipped Eucosma		SR	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

Indiana County Endangered, Threatened and Rare Species List

County: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Eucosma olivaceana</i>	Olivaceous Eucosma		SR	GNR	S1S2
<i>Eucosma striatana</i>	Striated Eucosma		SR	G5	SNR
<i>Eucosma umbrastriana</i>			SR	GNR	SNR
<i>Euphyes bimacula</i>	Two-spotted Skipper		ST	G4	S1S2
<i>Fagitana littera</i>	The Marsh Fern Moth		ST	G4	S1S2
<i>Feltia manifesta</i>	The Record Keeper Moth		SR	G4	S3S4
<i>Gabara subnivosella</i>	A Noctuid Moth		SR	G4	S1S2
<i>Glaucopsyche lygdamus couperi</i>	Silvery Blue		SE	G5T5	SH
<i>Grammia figurata</i>	The Figured Grammia		SR	G5	S2S3
<i>Grammia phyllira</i>	The Sand Barrens Grammia		SR	G4	S2S3
<i>Hadena capsularis</i>	The Starry Champion Capsule Moth		SR	G5	S1S2
<i>Hadena ectypa</i>	The Starry Champion Moth		ST	G3G4	S1S3
<i>Hemaris gracilis</i>	The Blueberry Clearwing Sphinx		SR	G3G4	S1S2
<i>Hesperia leonardus</i>	Leonard's Skipper		ST	G4	S2S3
<i>Hesperia ottoe</i>	Ottoe Skipper		SE	G3	S1
<i>Hypenodes caducus</i>	Large Hypenodes		SR	GNR	SNR
<i>Hyperaeschra georgica</i>	A Prominent Moth		ST	G5	S2
<i>Hypocoena inquinata</i>	Tufted Sedge Moth		ST	G5	S1S2
<i>Iodopepla u-album</i>	White-eyed Borer Moth		SR	G5	S2
<i>Lemmeria digitalis</i>	Fingered Lemmeria		SR	G4	S1S2
<i>Lesmone detrahens</i>	Detracted Owlet		SR	G5	S2
<i>Lethe eurydice eurydice</i>	Eyed Brown		WL	G5T5	S3
<i>Leucania amygdalina</i>	Salt Marsh Wainscot		SR	GNR	S2
<i>Leucania inermis</i>	Unarmed Wainscot		SR	G5	S2S3
<i>Leucania multilinea</i>	Many-lined Wainscot		SR	G5	S1S2
<i>Lycaeides melissa samuelis</i>	Karner Blue	LE	SE	G2	S1
<i>Lycaena dione</i>	Gray Copper		SX	G5	SX
<i>Lycaena helloides</i>	Purplish Copper		ST	G5	S2S3
<i>Macaria multilineata</i>	Many-lined Angle		SR	G4	SNR
<i>Macrochilo absorptalis</i>	Slant-lined Owlet		SR	G4G5	S2S3
<i>Macrochilo hypocritalis</i>	Twin-dotted Macrochilo		SR	G4	S2
<i>Macrochilo louisiana</i>	Louisiana Macrochilo		ST	G4	S1S2
<i>Melanomma auricinctaria</i>	Huckleberry Eye-spot Moth		SR	G4	S2S3
<i>Melipotis jucunda</i>	Merry Melipotis Moth		SR	G5	S1S3
<i>Meropleon ambifusca</i>	Newman's Brocade		ST	G3G4	S1S2
<i>Meropleon diversicolor</i>	Multicolored Sedgeminer		SR	G5	S2S3
<i>Metanema determinata</i>	Dark Metanema		SR	G5	SNR
<i>Metanema inatomaria</i>	Pale Metanema		SR	G5	SNR
<i>Metarranthis apiciaria</i>	Barrens Metarranthis Moth		SE	G1G3	SH

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: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Neodactria murellus</i>	Prairie Sedge Moth		ST	GNR	S1
<i>Nola cilicoides</i>	Blurry-patched Nola Moth		SR	G5	SNR
<i>Notodonta scitipennis</i>	Finned-willow Prominent		ST	G5	S1S2
<i>Odontosia elegans</i>	Elegant Prominent		SR	G5	S1S2
<i>Oligia obtusa</i>	A Noctuid Moth		SE	G4	S1
<i>Pangrapta decoralis</i>	The Multicolored Huckleberry Moth		ST	G5	S2
<i>Papaipema beeriana</i>	Beer's Blazing Star Borer Moth		ST	G2G3	S1S3
<i>Papaipema cerina</i>	Golden Borer Moth		ST	G2G4	S1
<i>Papaipema leucostigma</i>	Columbine Borer		ST	G4G5	S1S2
<i>Papaipema lysimachiae</i>	The St. John's Wort Borer Moth		SR	G4G5	S1S3
<i>Papaipema maritima</i>	The Giant Sunflower Borer Moth		ST	G3	S2
<i>Papaipema pterisii</i>	Bracken Borer Moth		WL	G5	SNR
<i>Papaipema rigida</i>	Rigid Sunflower Borer Moth		SR	G4G5	S2S3
<i>Papaipema sciata</i>	The Culver's Root Borer		ST	G3	S1S2
<i>Papaipema silphii</i>	Silphium Borer Moth		ST	G3G4	S2
<i>Papaipema speciosissima</i>	The Royal Fern Borer Moth		ST	G4	S2S3
<i>Parasa indetermina</i>	Stinging Rose Caterpillar Moth		SR	G4	S1S2
<i>Peoria gemmatella</i>	Gemmed Cordgrass Borer		SE	GNR	S1
<i>Peoria tetradella</i>			SR	GNR	SNR
<i>Photodes enervata</i>	The Many-lined Cordgrass Moth		ST	G4	S1
<i>Photodes includens</i>	The Included Cordgrass Borer		ST	G4	S1
<i>Photodes inops</i>	Spartina Borer Moth		SR	G3G4	S2S3
<i>Photodes panatela</i>	Northern Cordgrass Borer		ST	GNR	S1
<i>Phytometra ernestinana</i>	Ernestine's Moth		SE	G4	S1
<i>Poanes massasoit</i>	Mulberry Wing Skipper			G4	S3S4
<i>Poanes viator viator</i>	Big Broad-winged Skipper		ST	G5T4	S2
<i>Polites mystic</i>	Long Dash Skipper			G5	S3S4
<i>Polygonia progne</i>	Gray Comma		ST	G5	S2S3
<i>Ponometia binocula</i>	Prairie Tarachidia			GNR	S1S2
<i>Problema byssus</i>	Bunchgrass Skipper		ST	G4	S1S2
<i>Protorthodes incincta</i>	Saturn quaker		SR	GNR	S2
<i>Pygarctia spraguei</i>	Sprague's Pygartic		SR	G5	S1S2
<i>Pyrausta laticlavata</i>	The Southern Purple Mint Moth		SR	GNR	S1S2
<i>Pyrrhia aurantiago</i>	False-foxtail Sun Moth		ST	G3G4	S1S2
<i>Resapamea stipata</i>	The Four-lined Cordgrass Borer		SE	G4	S1
<i>Schinia indiana</i>	Phlox Moth		SE	G2G4	S1
<i>Schinia sanguinea</i>	Bleeding Flower Moth			G4	S2S3
<i>Schinia septentrionalis</i>	Northern Flower Moth		SR	G3G4	S2S3
<i>Scirpophaga perstrialis</i>	Reed-boring Crambid Moth		SR	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

Indiana County Endangered, Threatened and Rare Species List

County: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Sitochroa dasconalis</i>	Pearly Indigo Borer		ST	GNR	S1S2
<i>Sonia fulminana</i>	a tortricid moth		SR	GNR	S1S2
<i>Speyeria idalia</i>	Regal Fritillary	C	SE	G3?	S1S2
<i>Sphinx luscitiosa</i>	The Luscious Willow Sphinx		SR	G4G5	S1S2
<i>Spilosoma latipennis</i>	The Red-legged Tussock Moth		SR	G4	S2S3
<i>Sympistis riparia</i>	The Dune Oncocnemis Moth		ST	G4	S1S2
<i>Tricholita notata</i>	Marked Noctuid		ST	G5	S1S2
<i>Zomaria interruptolineana</i>	Broken-lined Zomaria		SR	GNR	SNR
Insect: Odonata (Dragonflies & Damselflies)					
<i>Somatochlora hineana</i>	Hine's Emerald	LE	SX	G2G3	SX
<i>Sympetrum semicinctum</i>	Band-winged Meadowhawk		SR	G5	S2S3
Insect: Orthoptera					
<i>Chloealtis conspersa</i>	Sprinkled Locust		SR	G5	S2S3
<i>Conocephalus saltans</i>	Prairie Meadow Katydid		SR	G5	S1S2
<i>Hesperotettix viridis pratensis</i>	Snakeweed Grasshopper		SR	G5T5	S1S2
<i>Melanoplus fasciatus</i>	Huckleberry Spur-throat Grasshopper		SR	G5	S2
<i>Melanoplus keeleri luridus</i>	Keeler's Spur-throated Grasshopper		SR	G5T5	S3S4
<i>Neoconocephalus nebrascensis</i>	Nebraska Conehead		SR	GNR	S1S2
<i>Orphulella pelidna</i>	Spotted-wing Grasshopper		SE	G5	S1
<i>Pardalophora phoenicoptera</i>	Orange-winged Grasshopper		SR	G5	S1S2
<i>Paroxya atlantica</i>	Atlantic Spastic Grasshopper		ST	GU	S2
<i>Phoetaliotes nebrascensis</i>	Large-headed Grasshopper		ST	G5	S1S2
<i>Psinidia fenestralis</i>	Sand Locust		SR	G5	S2
<i>Trimerotropis maritima</i>	Seaside Grasshopper		ST	G5	S1S2
Fish					
<i>Acipenser fulvescens</i>	Lake Sturgeon		SE	G3G4	S1
<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey		SE	G4	S1
<i>Rhinichthys cataractae</i>	Longnose Dace		SSC	G5	S2
Amphibian					
<i>Acris blanchardi</i>	Blanchard's Cricket Frog		SSC	G5	S4
<i>Ambystoma laterale</i>	Blue-spotted Salamander		SSC	G5	S2
<i>Necturus maculosus</i>	Common mudpuppy		SSC	G5	S2
Reptile					
<i>Clemmys guttata</i>	Spotted Turtle	C	SE	G5	S2
<i>Clonophis kirtlandii</i>	Kirtland's Snake		SE	G2	S2
<i>Emydoidea blandingii</i>	Blanding's Turtle	C	SE	G4	S2
<i>Opheodrys vernalis</i>	Smooth Green Snake		SE	G5	S2
<i>Sistrurus catenatus</i>	Eastern Massasauga	LT	SE	G3	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: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Terrapene carolina carolina</i>	Eastern Box Turtle		SSC	G5T5	S3
<i>Terrapene ornata ornata</i>	Ornate Box Turtle		SE	G5T5	S1
<i>Thamnophis proximus proximus</i>	Western Ribbon Snake		SSC	G5T5	S3
<i>Thamnophis radix</i>	Plains Garter Snake		SSC	G5	S4
Bird					
<i>Ammodramus henslowii</i>	Henslow's Sparrow		SE	G4	S3B
<i>Anas clypeata</i>	Northern Shoveler			G5	SHB
<i>Ardea alba</i>	Great Egret		SSC	G5	S1B
<i>Bartramia longicauda</i>	Upland Sandpiper		SE	G5	S3B
<i>Botaurus lentiginosus</i>	American Bittern		SE	G5	S2B
<i>Buteo platypterus</i>	Broad-winged Hawk		SSC	G5	S3B
<i>Certhia americana</i>	Brown Creeper			G5	S2B
<i>Charadrius melodus</i>	Piping Plover	LE	SE	G3	SXB
<i>Chlidonias niger</i>	Black Tern		SE	G4G5	S1B
<i>Chordeiles minor</i>	Common Nighthawk		SSC	G5	S4B
<i>Cistothorus palustris</i>	Marsh Wren		SE	G5	S3B
<i>Cistothorus platensis</i>	Sedge Wren		SE	G5	S3B
<i>Cygnus buccinator</i>	Trumpeter Swan		SE	G4	S1B
<i>Euphagus cyanocephalus</i>	Brewer's Blackbird			G5	SHB,S1N
<i>Falco peregrinus</i>	Peregrine Falcon		SSC	G4	S2B
<i>Gallinula galeata</i>	Common gallinule		SE	G5	S3B
<i>Grus canadensis</i>	Sandhill Crane		SSC	G5	S2B,S1N
<i>Haliaeetus leucocephalus</i>	Bald Eagle		SSC	G5	S2
<i>Hydroprogne caspia</i>	Caspian Tern			G5	S1B
<i>Ixobrychus exilis</i>	Least Bittern		SE	G4G5	S3B
<i>Lanius ludovicianus</i>	Loggerhead Shrike		SE	G4	S3B
<i>Laterallus jamaicensis</i>	Black Rail		SE	G3G4	SHB
<i>Mniotilta varia</i>	Black-and-white Warbler		SSC	G5	S1S2B
<i>Nyctanassa violacea</i>	Yellow-crowned Night-heron		SE	G5	S2B
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron		SE	G5	S1B
<i>Pandion haliaetus</i>	Osprey		SSC	G5	S1B
<i>Phalaropus tricolor</i>	Wilson's Phalarope		SSC	G5	SHB
<i>Rallus elegans</i>	King Rail		SE	G4	S1B
<i>Rallus limicola</i>	Virginia Rail		SE	G5	S3B
<i>Scolopax minor</i>	American Woodcock		SSC	G5	S4B
<i>Tringa melanoleuca</i>	Greater Yellowlegs		SSC	G5	S3M
<i>Tringa solitaria</i>	Solitary Sandpiper		SSC	G5	S3M
<i>Tyto alba</i>	Barn Owl		SE	G5	S2
<i>Xanthocephalus xanthocephalus</i>	Yellow-headed Blackbird		SE	G5	S1B

Mammal

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: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
<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>Reithrodontomys megalotis</i>	Western Harvest Mouse			G5	S2
<i>Spermophilus franklinii</i>	Franklin's Ground Squirrel		SE	G5	S2
<i>Taxidea taxus</i>	American Badger		SSC	G5	S2
Vascular Plant					
<i>Agalinis auriculata</i>	earleaf foxglove		ST	G3	S2
<i>Agalinis gattingeri</i>	roundstem foxglove		ST	G4	S3
<i>Agalinis skinneriana</i>	pale false foxglove		ST	G3G4	S2
<i>Alnus incana ssp. rugosa</i>	speckled alder		WL	G5T5	S3
<i>Amelanchier humilis</i>	running serviceberry		SE	G5	S1
<i>Androsace occidentalis</i>	western rockjasmine		ST	G5	S2
<i>Aralia hispida</i>	bristly sarsaparilla		SE	G5	S1
<i>Arctostaphylos uva-ursi</i>	bearberry		ST	G5	S3
<i>Arethusa bulbosa</i>	swamp-pink		SX	G5	SX
<i>Aristida longespica var. geniculata</i>	slim-spike three-awn grass		WL	G5T5?	S3
<i>Aristida tuberculosa</i>	seabeach needlegrass		ST	G5	S3
<i>Asclepias meadii</i>	Mead's milkweed	LT	SRE	G2	SX
<i>Aureolaria grandiflora var. pulchra</i>	large-flower false-foxglove		SX	G4G5T4T5	SX
<i>Baptisia bracteata var. leucophaea</i>	cream wild-indigo		WL	G4G5T4T5	S3
<i>Baptisia tinctoria</i>	yellow wild-indigo		WL	G5	S3
<i>Betula papyrifera</i>	paper birch		ST	G5	S3
<i>Betula populifolia</i>	gray birch		WL	G5	S1
<i>Bidens beckii</i>	Beck's water-marigold		SE	G5	S1
<i>Botrychium matricariifolium</i>	chamomile grape-fern		ST	G5	S3
<i>Botrychium simplex</i>	least grape-fern		SE	G5	S1
<i>Buchnera americana</i>	bluehearts		SE	G5?	S1
<i>Calopogon oklahomensis</i>	Oklahoma grass-pink		SX	G3	SX
<i>Carex aurea</i>	golden-fruited sedge		ST	G5	S3
<i>Carex bebbii</i>	Bebb's sedge		ST	G5	S3
<i>Carex brunnescens</i>	brownish sedge		ST	G5	S2
<i>Carex conoidea</i>	prairie gray sedge		ST	G5	S2
<i>Carex crawei</i>	Crawe's sedge		ST	G5	S2
<i>Carex cumulata</i>	clustered sedge		SE	G4G5	S1
<i>Carex eburnea</i>	ebony sedge		ST	G5	S3
<i>Carex echinata</i>	little prickly sedge		SE	G5	S1
<i>Carex garberi</i>	elk sedge		SE	G5	S1
<i>Carex limosa</i>	mud sedge		SE	G5	S1

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: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Carex projecta</i>	necklace sedge		SE	G5	SU
<i>Carex richardsonii</i>	Richardson's sedge		ST	G5	S2
<i>Carex seorsa</i>	weak stellate sedge		ST	G5	S3
<i>Carex straminea</i>	straw sedge		ST	G5	S2
<i>Carex trichocarpa</i>	hairy-fruit sedge		WL	G4	S3
<i>Catalpa speciosa</i>	northern catalpa		ST	G4?	S3
<i>Ceanothus herbaceus</i>	prairie redroot		SE	G5	S1
<i>Chamaenerion angustifolium</i>	fireweed		SE	G5	S1
<i>Chimaphila maculata</i>	spotted wintergreen		WL	G5	S3
<i>Cirsium hillii</i>	Hill's thistle		SE	G3	S1
<i>Cirsium pitcheri</i>	dune thistle	LT	SE	G2G3	S1
<i>Clinopodium arkansanum</i>	calamint		ST	G5	S2
<i>Clintonia borealis</i>	Clinton's lily		SE	G5	S1
<i>Comptonia peregrina</i>	sweet fern		WL	G5	S3
<i>Cornus amomum ssp. amomum</i>	silky dogwood		SE	G5	S1
<i>Cornus canadensis</i>	bunchberry		SE	G5	S1
<i>Cornus rugosa</i>	roundleaf dogwood		ST	G5	S3
<i>Corydalis sempervirens</i>	pale corydalis		SE	G5	S1
<i>Cyperus dentatus</i>	toothed sedge		SE	G4	S1
<i>Cypripedium candidum</i>	small white lady's-slipper		ST	G4	S3
<i>Cypripedium parviflorum var. makasin</i>	small yellow lady's-slipper		ST	G5T4T5	S3
<i>Cypripedium parviflorum var. pubescens</i>	large yellow lady's-slipper		WL	G5T5	S3
<i>Cypripedium reginae</i>	showy lady's-slipper		ST	G4G5	S3
<i>Dactylorhiza viridis</i>	long-bract green orchid		SE	G5	S1
<i>Dichanthelium boreale</i>	northern witchgrass		ST	G5	S3
<i>Dichanthelium deamii</i>	Deam's panic-grass		SE	GNR	SU
<i>Dichanthelium leibergii</i>	Leiberg's witchgrass		ST	G4	S2
<i>Diervilla lonicera</i>	northern bush-honeysuckle		WL	G5	S3
<i>Drosera intermedia</i>	spoon-leaved sundew		ST	G5	S3
<i>Drymocallis arguta</i>	tall cinquefoil		WL	G5	SU
<i>Eleocharis geniculata</i>	capitate spike-rush		ST	G5	S2
<i>Eleocharis melanocarpa</i>	black-fruited spike-rush		ST	G4	S2
<i>Eleocharis wolfii</i>	Wolf's spikerush		ST	G3G5	S2
<i>Epigaea repens</i>	trailing arbutus		ST	G5	S3
<i>Equisetum variegatum var. variegatum</i>	variegated horsetail		SE	G5T5	S1
<i>Eriophorum angustifolium</i>	narrow-leaved cotton-grass		ST	G5	S3
<i>Eriophorum gracile</i>	slender cotton-grass		ST	G5	S2
<i>Eurybia furcata</i>	forked aster		ST	G3	S3
<i>Fimbristylis puberula</i>	Carolina fimbry		SE	G5	S1
<i>Gentiana alba</i>	yellow gentian		ST	G4	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: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Gentiana puberulenta</i>	downy gentian		SE	G4G5	S1
<i>Geranium bicknellii</i>	Bicknell's northern cranesbill		SE	G5	S1
<i>Glyceria borealis</i>	small floating manna-grass		SE	G5	S1
<i>Hudsonia tomentosa</i>	sand-heather		ST	G5	S2
<i>Hydrastis canadensis</i>	golden seal		WL	G3G4	S3
<i>Hypericum adpressum</i>	creeping St. John's-wort		SE	G3	S1
<i>Hypericum kalmianum</i>	Kalm's St. John's-wort		WL	G4	S3
<i>Juglans cinerea</i>	butternut		ST	G3	S2
<i>Juncus articulatus</i>	jointed rush		SE	G5	S1
<i>Juncus balticus var. littoralis</i>	Baltic rush		WL	G5T5	S3
<i>Juncus pelocarpus</i>	brown-fruited rush		SE	G5	S1
<i>Juncus scirpoides</i>	scirpus-like rush		ST	G5	S2
<i>Juniperus communis var. depressa</i>	ground juniper		ST	G5T5	S3
<i>Juniperus horizontalis</i>	creeping juniper		SX	G5	SX
<i>Lathyrus japonicus</i>	beach peavine		SE	G5	S1
<i>Lathyrus venosus</i>	smooth veiny pea		SE	G5	S1
<i>Lechea stricta</i>	upright pinweed		SX	G4?	SX
<i>Liatris pycnostachya</i>	cattail gay-feather		SE	G5	S1
<i>Lilium philadelphicum</i>	wood lily		WL	G5	SU
<i>Linnaea borealis</i>	twinflower		SX	G5	SX
<i>Linum sulcatum</i>	grooved yellow flax		ST	G5	S3
<i>Liparis loeselii</i>	Loesel's twayblade		WL	G5	S3
<i>Lipocarpha drummondii</i>	Drummond's hemicarpha		SE	G4G5	S1
<i>Ludwigia sphaerocarpa</i>	globe-fruited false-loosestrife		SE	G5	S1
<i>Lycopodiella inundata</i>	northern bog clubmoss		ST	G5	S2
<i>Lycopodiella subappressa</i>	northern appressed bog clubmoss		SE	G2	S1
<i>Malaxis unifolia</i>	green adder's-mouth orchid		SE	G5	S1
<i>Matteuccia struthiopteris</i>	ostrich fern		ST	G5	S3
<i>Melampyrum lineare</i>	American cow-wheat		SE	G5	S1
<i>Mikania scandens</i>	climbing hempweed		SE	G5	S1
<i>Minuartia michauxii var. michauxii</i>	Michaux's stitchwort		ST	G5T5	S2
<i>Myosotis laxa</i>	smaller forget-me-not		ST	G5	S2
<i>Myriophyllum verticillatum</i>	whorled water-milfoil		ST	G5	S3
<i>Oenothera perennis</i>	small sundrops		ST	G5	S3
<i>Oligoneuron album</i>	prairie goldenrod		ST	G5	S3
<i>Orobanche fasciculata</i>	clustered broomrape		SE	G4G5	S1
<i>Orthilia secunda</i>	one-sided wintergreen		SX	G5	SX
<i>Panax quinquefolius</i>	American ginseng		WL	G3G4	S3
<i>Perideridia americana</i>	eastern eulophus		SE	G4	S1
<i>Persicaria careyi</i>	Carey's smartweed		ST	G4	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: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Phemeranthus rugospermus</i>	prairie fame-flower		SE	G3G4	S1
<i>Pinus banksiana</i>	jack pine		ST	G5	S3
<i>Pinus strobus</i>	eastern white pine		ST	G5	S3
<i>Plantago cordata</i>	heart-leaved plantain		SE	G4	S1
<i>Platanthera aquilonis</i>	leafy northern green orchid		ST	G5	S2
<i>Platanthera ciliaris</i>	yellow-fringe orchid		SE	G5	S1
<i>Platanthera flava var. herbiola</i>	pale green orchid		WL	G4?T4Q	S3
<i>Platanthera hookeri</i>	Hooker's Orchid		SX	G4	SX
<i>Platanthera lacera</i>	green-fringe orchid		WL	G5	S3
<i>Platanthera leucophaea</i>	prairie white-fringed orchid	LT	SE	G2G3	S1
<i>Platanthera psycodes</i>	small purple-fringe orchid		ST	G5	S3
<i>Pogonia ophioglossoides</i>	rose pogonia		ST	G5	S3
<i>Polygonum articulatum</i>	eastern jointweed		ST	G5	S3
<i>Polytaenia nuttallii</i>	prairie parsley		SE	G5	S1
<i>Populus balsamifera</i>	balsam poplar		SE	G5	S1
<i>Potamogeton pulcher</i>	spotted pondweed		ST	G5	S2
<i>Potamogeton pusillus</i>	slender pondweed		WL	G5	S2
<i>Potamogeton richardsonii</i>	redheadgrass		ST	G5	S3
<i>Potamogeton robbinsii</i>	flatleaf pondweed		ST	G5	S3
<i>Potamogeton strictifolius</i>	straight-leaf pondweed		ST	G5	S2
<i>Potentilla anserina</i>	silverweed		ST	G5	S2
<i>Prenanthes aspera</i>	rough rattlesnake-root		ST	G4?	S3
<i>Prunus pensylvanica</i>	fire cherry		ST	G5	S3
<i>Pyrola americana</i>	American wintergreen		ST	G5	S2
<i>Rhus aromatica var. arenaria</i>	beach sumac		ST	G5T3Q	S3
<i>Rhynchospora macrostachya</i>	tall beaked-rush		ST	G4	S3
<i>Rhynchospora recognita</i>	globe beaked-rush		SE	G5?	S1
<i>Rhynchospora scirpoides</i>	long-beaked baldrush		ST	G4	S3
<i>Rorippa aquatica</i>	lake cress		SE	G4?	S1
<i>Rubus setosus</i>	small bristleberry		SE	G5	S1
<i>Salix cordata</i>	heartleaf willow		SE	G4	S1
<i>Sceptridium rugulosum</i>	ternate grapefern		SX	G3	SX
<i>Schoenoplectiella hallii</i>	Hall's bulrush	C	SE	G2G3	S1
<i>Schoenoplectiella smithii</i>	Smith's Bulrush		ST	G5?	S2
<i>Schoenoplectus subterminalis</i>	water bulrush		ST	G5	S3
<i>Schoenoplectus torreyi</i>	Torrey's Bulrush		SE	G5?	S1
<i>Scleria reticularis</i>	reticulated nutrush		ST	G4	S2
<i>Selaginella apoda</i>	meadow spike-moss		WL	G5	S1
<i>Selaginella rupestris</i>	ledge spike-moss		SE	G5	S1
<i>Shepherdia canadensis</i>	Canada buffalo-berry		SX	G5	SX

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: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Sisyrinchium montanum</i>	strict blue-eyed-grass		SE	G5	S1
<i>Solidago simplex var. gillmanii</i>	sticky goldenrod		ST	G5T3?	S2
<i>Sparganium androcladum</i>	branching bur-reed		ST	G4G5	S2
<i>Sparganium natans</i>			SX	G5	SX
<i>Spiranthes lucida</i>	shining ladies'-tresses		ST	G4	S3
<i>Spiranthes magnicamporum</i>	Great Plains ladies'-tresses		SE	G3G4	S1
<i>Strophostyles leiosperma</i>	slick-seed wild-bean		WL	G5	S3
<i>Styrax americanus</i>	American snowbell		ST	G5	S3
<i>Symphotrichum boreale</i>	rushlike aster		ST	G5	S2
<i>Symphotrichum sericeum</i>	western silvery aster		ST	G5	S2
<i>Thuja occidentalis</i>	northern white cedar		SE	G5	S1
<i>Triantha glutinosa</i>	false asphodel		ST	G5	S2
<i>Trichostema dichotomum</i>	forked bluecurl		WL	G5	S3
<i>Triglochin palustris</i>	marsh arrow-grass		ST	G5	S2
<i>Utricularia cornuta</i>	horned bladderwort		SE	G5	S1
<i>Utricularia intermedia</i>	flatleaf bladderwort		WL	G5	S3
<i>Utricularia minor</i>	lesser bladderwort		ST	G5	S1
<i>Utricularia purpurea</i>	purple bladderwort		ST	G5	S3
<i>Utricularia resupinata</i>	northeastern bladderwort		SE	G4	S1
<i>Utricularia subulata</i>	zigzag bladderwort		ST	G5	S2
<i>Vaccinium myrtilloides</i>	velvetleaf blueberry		SE	G5	S1
<i>Valerianella chenopodiifolia</i>	goose-foot corn-salad		WL	G4	S3
<i>Viburnum opulus var. americanum</i>	highbush-cranberry		SE	G5T5	S1
<i>Viola pedatifida</i>	prairie violet		ST	G5	S2
High Quality Natural Community					
<i>Forest - floodplain wet</i>	Wet Floodplain Forest		SG	G3?	S3
<i>Forest - floodplain wet-mesic</i>	Wet-mesic Floodplain Forest		SG	G3?	S3
<i>Forest - upland dry Northwestern Morainal</i>	Northwestern Morainal Dry Upland Forest		SG	GNR	S1
<i>Forest - upland dry-mesic Northwestern Morainal</i>	Northwestern Morainal Dry-mesic Upland Forest		SG	GNR	S1
<i>Forest - upland mesic Northwestern Morainal</i>	Northwestern Morainal Mesic Upland Forest		SG	GNR	S1
<i>Lake - pond</i>	Pond		SG	GNR	SNR
<i>Prairie - dry-mesic</i>	Dry-mesic Prairie		SG	G3	S2
<i>Prairie - mesic</i>	Mesic Prairie		SG	G2	S2
<i>Prairie - sand dry</i>	Dry Sand Prairie		SG	G3	S2
<i>Prairie - sand dry-mesic</i>	Dry-mesic Sand Prairie		SG	G3	S3
<i>Prairie - sand mesic</i>	Mesic Sand Prairie		SG	GNR	SNR
<i>Prairie - sand wet</i>	Wet Sand Prairie		SG	G3	S3
<i>Prairie - sand wet-mesic</i>	Wet-mesic Sand Prairie		SG	G1?	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: Lake



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Prairie - wet</i>	Wet Prairie		SG	G3	S1
<i>Primary - dune lake</i>	Foredune		SG	G3	S1
<i>Savanna - mesic</i>	Mesic Savanna		SG	GNR	SNR
<i>Savanna - sand dry</i>	Dry Sand Savanna		SG	G2?	S2
<i>Savanna - sand dry-mesic</i>	Dry-mesic Sand Savanna		SG	G2?	S2S3
<i>Savanna - sand mesic</i>	Mesic Sand Savanna		SG	GNR	SNR
<i>Wetland - fen</i>	Fen		SG	G3	S3
<i>Wetland - marsh</i>	Marsh		SG	GU	S4
<i>Wetland - meadow sedge</i>	Sedge Meadow		SG	G3?	S1
<i>Wetland - panne</i>	Panne		SG	G2	S1
<i>Wetland - swamp shrub</i>	Shrub Swamp		SG	GU	S2
Other Significant Feature					
<i>Migratory Bird Concentration Area</i>	Migratory Bird Concentration Site		SG	G3	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