

RED FLAG INVESTIGATION DOCUMENT

**Liberty Mills Road/West County Line Road and County Road E 900 S/County Road S 800 E
Intersection Improvement
Allen County and Whitley County, Indiana
DES #1297238
May 13, 2014**

NARRATIVE

This is an intersection improvement project. Currently the intersection consists of two 'T' intersections with Liberty Mills Road in Allen County at West County Line Road and County Road E 900 S in Whitley County at County Road S 800 E. West County Line Road and County Road S 800 E are the same road, with Allen County and Whitley County referring to the name respectively. County Road E 900 S lies approximately 150' north of Liberty Mills Road. West County Line Road/County Road S 800 E is a north-south urban minor arterial and Liberty Mills Road is an east-west urban collector. County Road E 900 S is not classified.

West County Line Road/County Road S 800 E is used by many motorists as a connector of US 30 on the north end to US 24 on the south end. As development continues to push west of Fort Wayne it is anticipated that this area will see an increase in traffic volumes. The current alignment of the two intersections creates multiple stop-and-go situations for motorists traveling east and/or west. There are also sight distance issues on West County Line Road/County Road S 800 E.

The proposed project will realign the two 'T' intersections. Initially the proposed design was to create a single four-approach intersection with the east-west corridor yielding to the north-south corridor. However, a roundabout is now being considered as a possible solution. Further investigation will need to be done to determine the best design for this intersection. In addition to the intersection improvement, drainage and sight distance improvements will also be included in the project.

SUMMARY

Infrastructure			
Indicate the number of items of concern found within 1/2 mile, including an explanation why each item within the 1/2 mile radius will/will not impact the project. If there are no items, please indicate N/A:			
Religious Facilities	N/A	Recreational Facilities	N/A
Airports	N/A	Pipelines	1
Cemeteries	3	Railroads	N/A
Hospitals	N/A	Trails	N/A
Schools	N/A	Managed Lands	N/A
Museums	N/A		

Explanation: (Please provide a separate paragraph for each item.)

- There are three cemeteries located within the half mile radius.

- The Kelsey Cemetery is located at 9440 County Road S 800 E and the coordinates in decimal degrees are Latitude 41.0293 and Longitude -85.3957. This cemetery will not be affected by the project.
- The Decker Cemetery is located west of West County Line Road/County Road S 800 E and north of County Road E 900 S. The exact location is unknown. The area of its potential location is shown on the attached Infrastructure map. This cemetery will not be affected by the project.
- The Bayliss Cemetery is located within the project area on the northwest corner of West County Line Rd and County Road E 900 S. The Cemetery Record Number is CR-92-34 and the coordinates in decimal degrees are 41.0345 Latitude and -85.3363 Longitude. The Bayliss Cemetery was established in 1843 and has two occupied spaces. This Cemetery will be affected by the project.
- There is a Northern Indiana Public Service Company natural gas pipeline that is located within the project area. The pipeline intersects County Road E 900 S and is located just west of West County Line Road/County Road S 800 E. This pipeline will be affected by the project.

Water Resources			
Indicate the number of items of concern found within 1/2 mile, including an explanation why each item within the 1/2 mile radius will/will not impact the project. If there are no items, please indicate N/A:			
NWI – Points	N/A	NWI – Wetlands	15
Karst Springs	N/A	IDEM 303d Listed Lakes	N/A
Canal Structures – Historic	N/A	Lakes	2
NWI – Lines	6	Floodplain – DFIRM	Yes
IDEM 303d Listed Rivers and Streams (Impaired)	N/A	Cave Entrance Density	N/A
Rivers and Streams	2	Sinkhole Areas	N/A
Canal Routes – Historic	N/A	Sinking-Stream Basins	N/A
Outstanding Rivers (Special Interest Waterways)	N/A	Line of Protection	N/A
*High Capacity Wells (Wellhead Protection Areas)	N/A	National River Inventory (NRI)	N/A

Explanation: (Please provide a separate paragraph for each item.)

- There are six NWI - Line features identified within the half mile radius. Five of the segments identified follow the Big Indian Creek alignment north of the project area. The sixth segment is located south of the project area. None of these identified NWI - Lines are within the project area so they will not be affected by the project.
- There are two features identified within the half mile radius for the “Rivers and Streams” category. These two features do not intersect with the project area. A “Natural Drain” is located south of the project area and the “Big Indian Creek” is located north of the project area. These features will not be affected by the project.
- There are 15 NWI - Wetlands located within the half mile radius. None of these NWI - Wetland areas are within the project area so they will not be affected by the project.
- There are two features identified in the “Lakes” category that are within the half mile radius but not located within or adjacent to the project area. They are both located southeast of the project area and will not be affected by the project.
- A floodplain exists within the half mile radius just north of the project area. This floodplain surrounds the Big Indian Creek alignment. A second floodplain intersects the half mile radius at the southern end. This flood plain surrounds the alignment of the Bichacoff Drain. Neither of these floodplain areas intersect with the project area although the one north of the project area is in close proximity.

- *High Capacity Wells – To protect these features they are not identified in the water resource map due to their locational sensitivity. There were no high capacity wells found within a half mile radius of the project area.

Mining/Mineral Exploration			
Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A:			
Petroleum Wells	N/A	Petroleum Fields	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation: No explanation was created for this section since there were no entries.

Hazmat Concerns			
Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A:			
Brownfield Sites	N/A	Restricted Waste Sites	N/A
Corrective Action Sites (RCRA)	N/A	Septage Waste Sites	N/A
Confined Feeding Operations	N/A	Solid Waste Landfills	N/A
Construction Demolition Waste	N/A	State Cleanup Sites	N/A
Industrial Waste Sites (RCRA Generators)	N/A	Tire Waste Sites	N/A
*Infectious/Medical Waste Sites	N/A	Waste Transfer Stations	N/A
Lagoon/Surface Impoundments	N/A	RCRA Waste Treatment, Storage, and Disposal Sites (TSDs)	N/A
Leaking Underground Storage Tanks (LUSTs)	N/A	Underground Storage Tanks (USTs)	N/A
Manufactured Gas Plant Sites	N/A	Voluntary Remediation Program	N/A
NPDES Facilities	N/A	Superfund	N/A
NPDES Pipe Locations	N/A	Institutional Control Sites	N/A
Open Dump Sites	N/A		

Explanation: *Infectious/Medical Waste Sites were not able to be confirmed or denied in the project area. More research is needed to determine if there are any in the ½ mile radius of the project.

Ecological Information

The Allen County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. Due to the sensitive nature of identifying locations of threatened and endangered species, maps of these specific habitats are not provided.

Historic Resources

The items below represent all properties or bridges in Fort Wayne and Allen County that have obtained any type of historic designation. The types of historic designation are: Indiana Historic Bridge Inventory, Fort Wayne Local Historic Districts, the Indiana State Register of Historic Places, the National Register of Historic

Places, the Historic American Buildings Survey, and National Historic Landmark. The Items below labeled as “Potential” are items that have been identified by the Fort Wayne Historic Preservation Commission and/or Architecture and Community Heritage (ARCH) of Fort Wayne for their historical significance and potential for being listed in one of the above historical designations. Also, structures or properties from the latest County Interim Report have been identified.

Historic Features			
Indicate the number of items of concern found within 1/2 mile, including an explanation why each item within the 1/2 mile radius will/will not impact the project. If there are no items, please indicate N/A:			
Historic Sites or Districts	N/A	Select Bridges	N/A
Non-Select Bridges	N/A	Potential Historic Sites or Districts	1
Properties identified in the latest Interim Report (IHSSI)	2		

Explanation:

- There is one “Potential Historic Site or District” identified within the half mile radius. It is located about 2300 feet north of the project area on the west side of West County Line Road/County Road S 800 E and will not be affected by the project.
- There are two sites identified by the IHSSI Allen County Interim Report.
 - One site is the Big Indian Creek Bridge (IHSSI 003-021-10261) located on West County Line Road/County Road S 800 E about 820 feet north of Liberty Mills Road. This bridge is outside of the project area and will not be affected by the project.
 - The other potential site (IHSSI 003-021-10263) is a farm located near the project area that may be affected by the project. The address for this site is 15128 Liberty Mills Road and is located just east of the intersection of West County Line Road and Liberty Mills Road on the north side of Liberty Mills Road.

SUMMARY/RECOMMENDATIONS

INFRASTRUCTURE: A total of 4 items are identified in the Infrastructure section, however only two items located within the project area will be affected by the project. These items are one cemetery (Bayliss Cemetery); and one Northern Indiana Public Service Company natural gas pipeline. Coordination with the cemetery’s caretaker and the Northern Indiana Public Service Company should be undertaken as the project is developed to determine potential impacts.

WATER RESOURCES: A total of 25 items plus two floodplains are identified in the Water Resources section. Of the 25 items, none appear be affected by the project. Coordination should be conducted with the Allen County Surveyor’s Office, the City of Fort Wayne Water & Sewer Office and the Department of Planning Services.

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: No items were found in this section that is within a 1/2 mile radius of the project. Infectious/Medical Waste Sites were not able to be confirmed or denied in the project area. More research is needed to determine if there are any in the 1/2 mile radius of the project. Additional coordination should be conducted with the Indiana Department of Environmental Management (IDEM).

ECOLOGICAL INFORMATION: Coordination with the Indiana Department of Natural Resources (INDR) and US Fish and Wildlife Services (USFWS) will be needed to determine the potential impact to any listed species and/or habitats that may be located within the project area.

HISTORIC FEATURES: Three items were identified within the project area; one of these properties may be affected by the project. To determine the impact the project may have on the property, additional discussion with the Fort Wayne Historic Preservation Commission and Architecture and Community Heritage (ARCH) of Fort Wayne should be conducted.

Prepared by:

Stacey Gorsuch
Principal Transportation Planner
Northeastern Indiana Regional Coordinating Council
200 East Berry Street, Suite 230
Fort Wayne, IN 46802
Stacey.gorsuch@co.allen.in.us
260-449-7309

Graphics:

A map for each report section with a 1/2 mile 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:

GENERAL SITE MAP SHOWING PROJECT AREA: YES

TOPOGRAPHIC MAP SHOWING THE PROJECT AREA: YES

INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

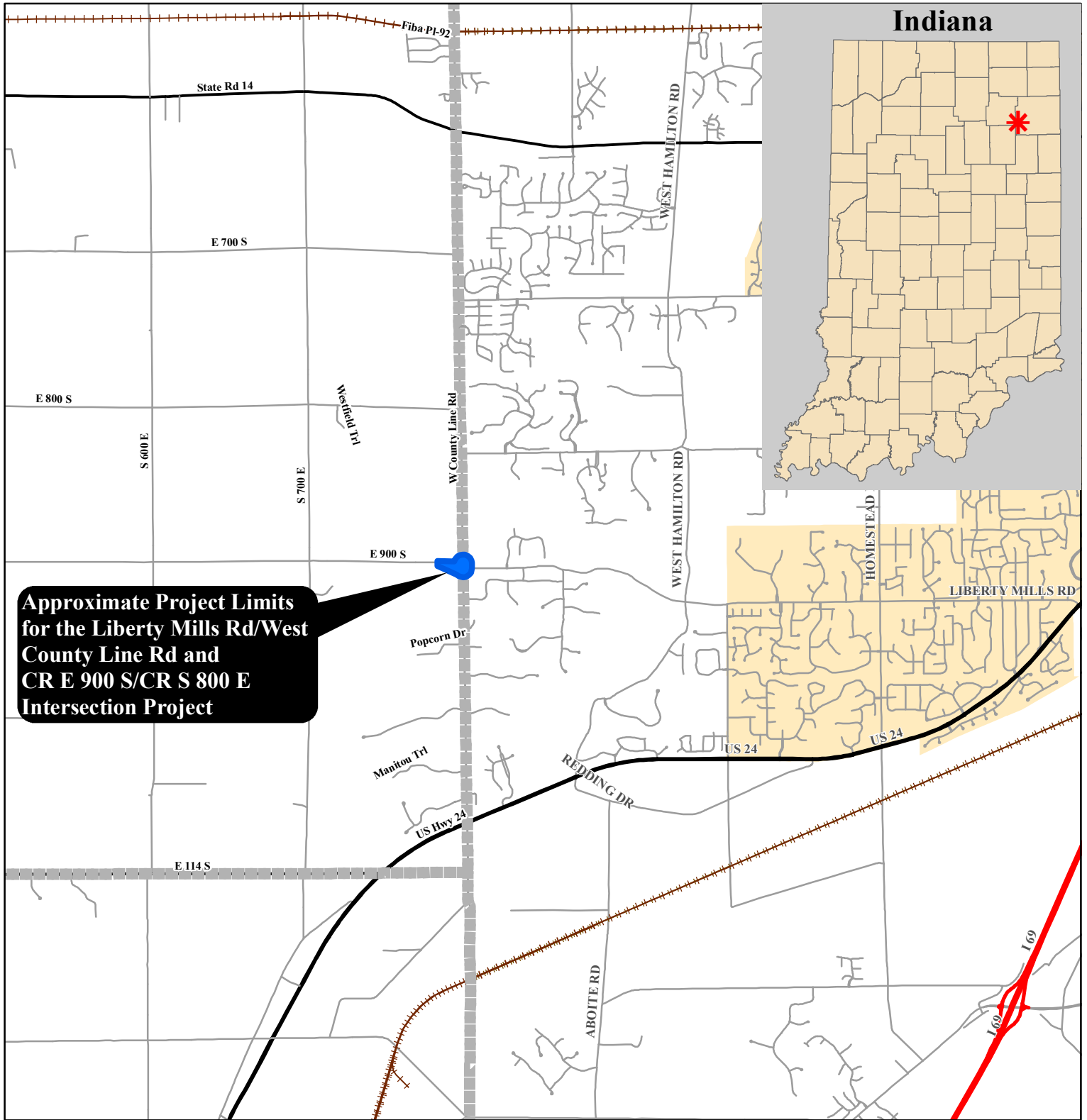
HAZMAT CONCERNS: YES

HISTORIC FEATURES: YES

CITY OR COUNTY INTERIM REPORT: see Historic Features map










COUNTY LIST OF THREATENED AND ENDANGERED SPECIES: YES

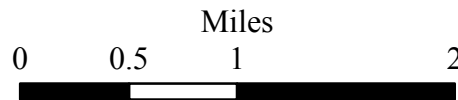
Red Flag Investigation - Project Location
 Liberty Mills Rd/West County Line Rd and CR E 900 S/CR S 800 E Intersections
 Intersection Project
 Allen County and Whitley County, Indiana



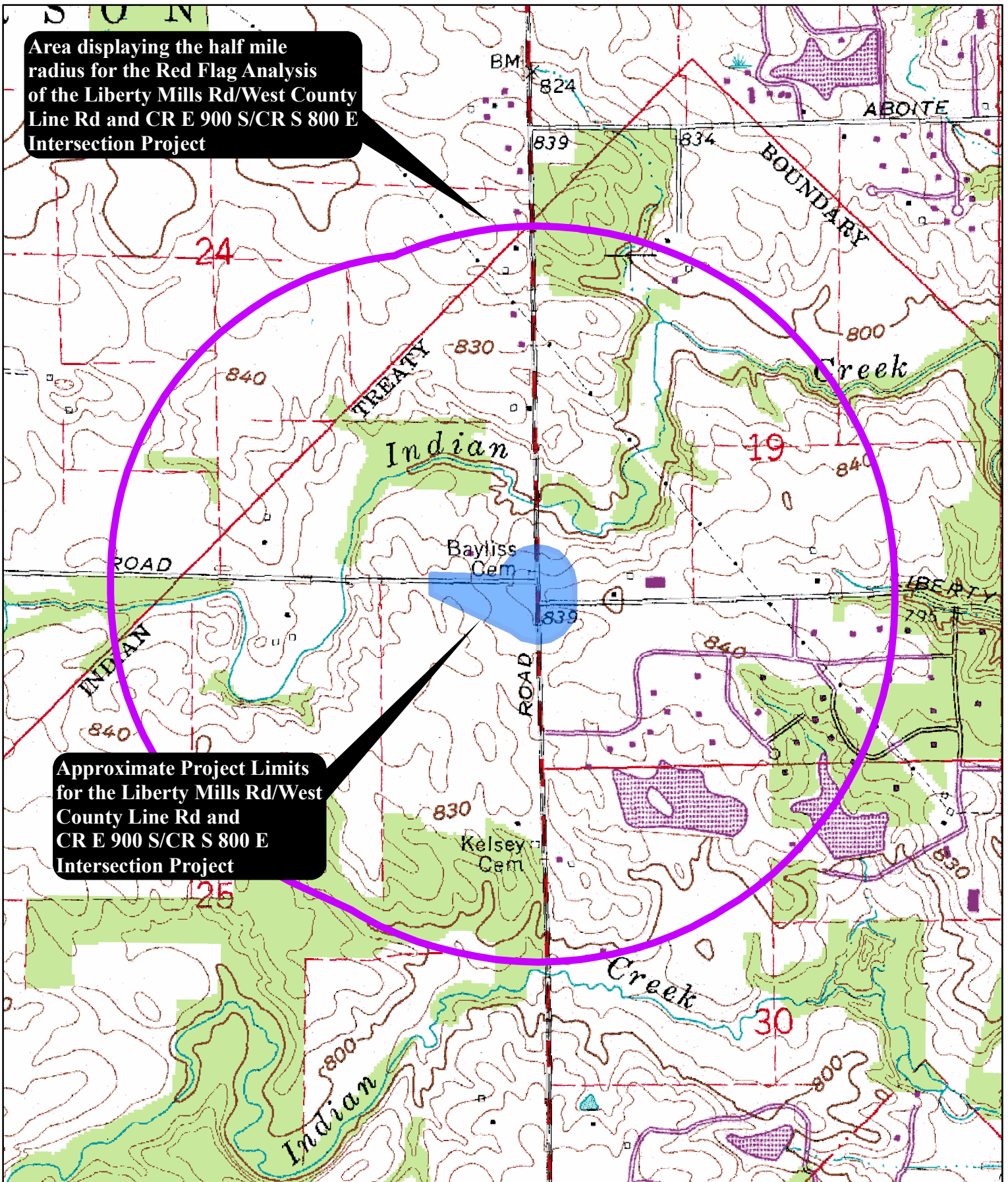
**Approximate Project Limits
 for the Liberty Mills Rd/West
 County Line Rd and
 CR E 900 S/CR S 800 E
 Intersection Project**

Legend

 Interstates	 Rivers
 State Route	 Railroad
 US Route	 City of Fort Wayne
 Local Road	 City of New Haven
	 County Boundary



Area displaying the half mile radius for the Red Flag Analysis of the Liberty Mills Rd/West County Line Rd and CR E 900 S/CR S 800 E Intersection Project



Approximate Project Limits for the Liberty Mills Rd/West County Line Rd and CR E 900 S/CR S 800 E Intersection Project

Red Flag Investigation - Topographic Map

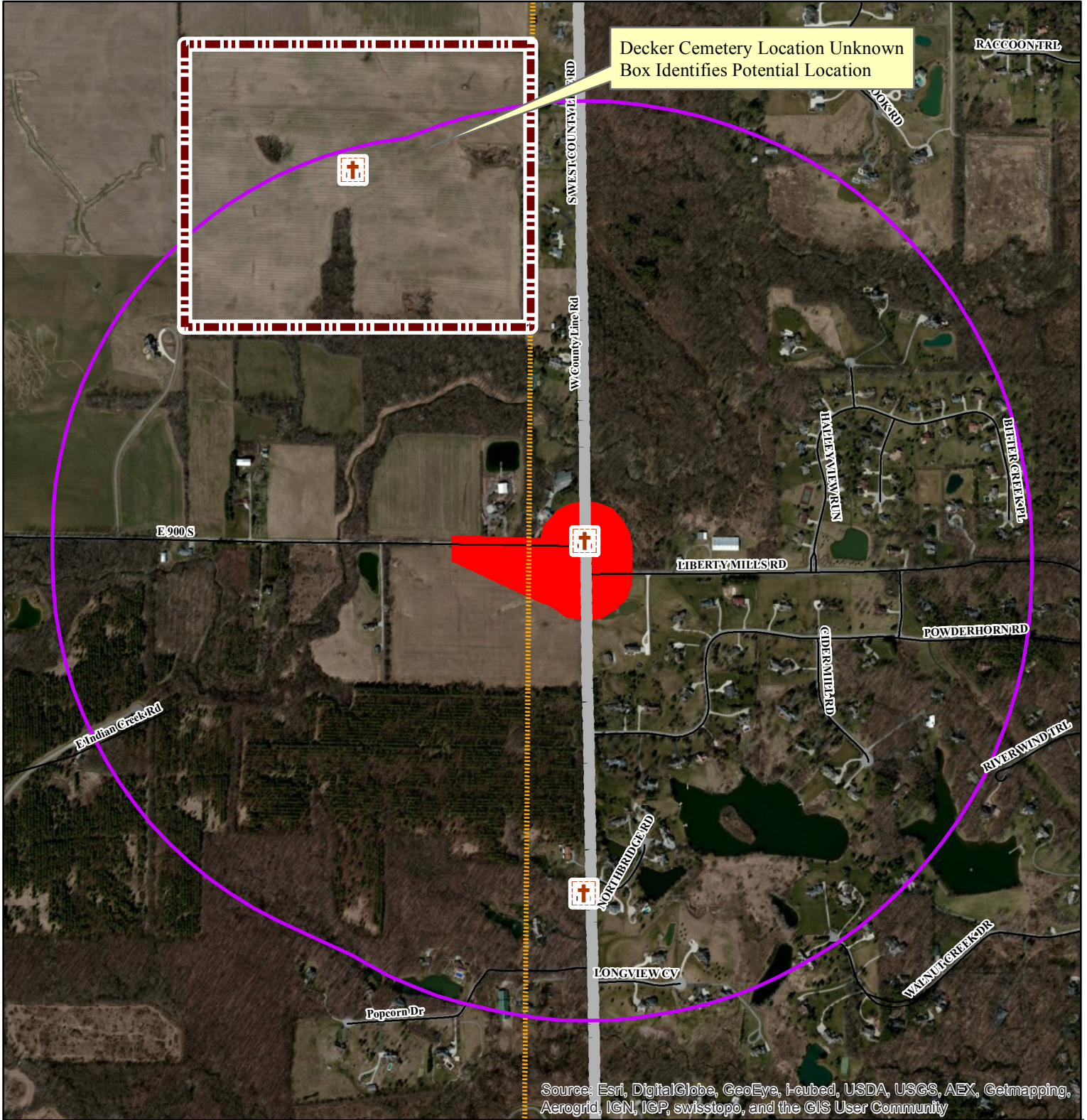
Liberty Mills Rd/West County Line Rd and CR E 900 S/CR S 800 E Intersections

Intersection Project

Allen County and Whitley County, Indiana



Red Flag Investigation - Infrastructure Map
 Liberty Mills Rd/West County Line Rd and CR E 900 S/CR S 800 E Intersections
 Intersection Project
 Allen County and Whitley County, Indiana



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



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

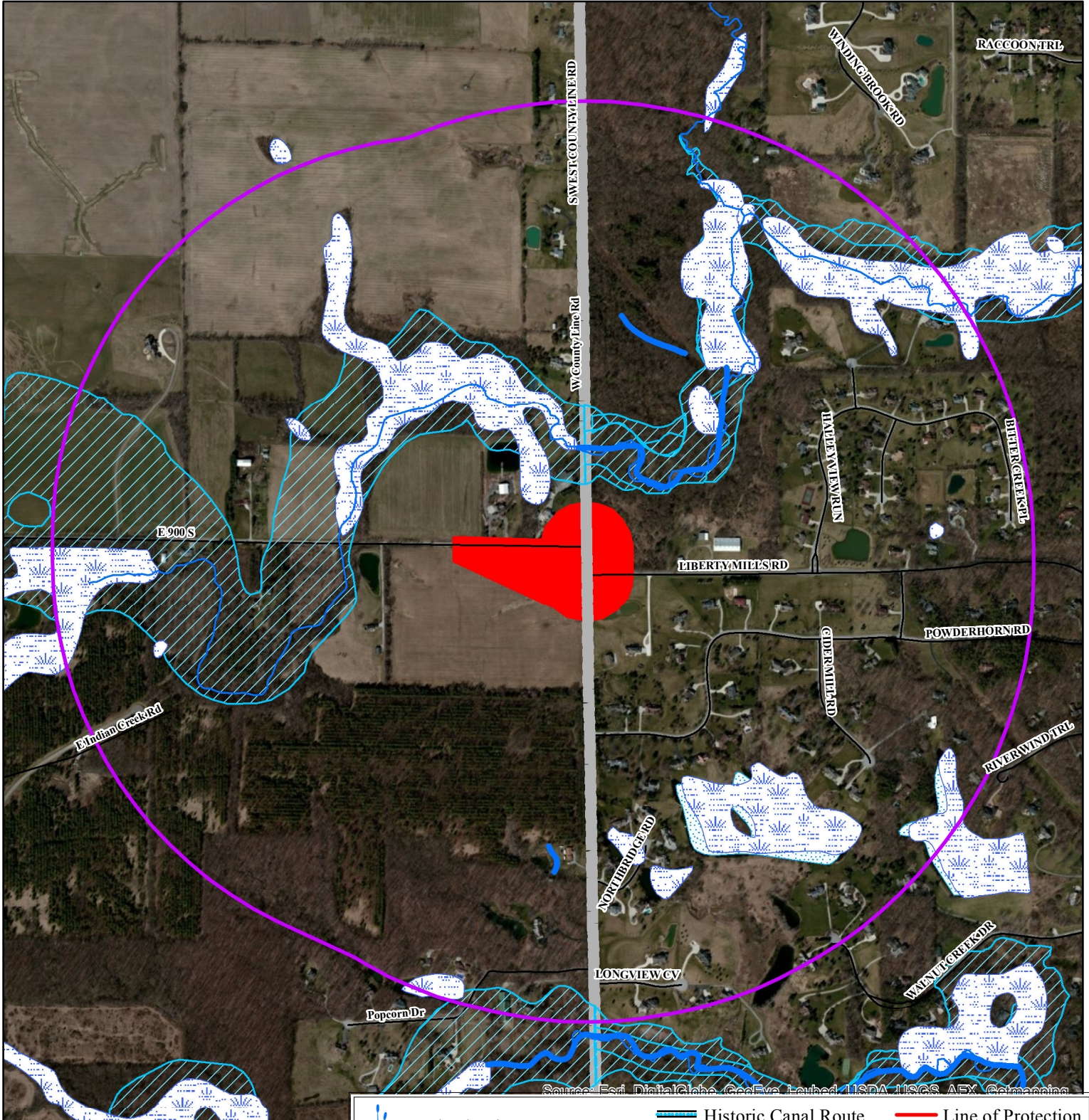


7/13



	Religious Facilities		Recreational Facilities		Interstates
	Museums		Trails		State Route
	Schools		Railroad		US Route
	Hospitals		Pipelines		Local Road
	Cemeteries		Managed Lands		Half Mile Buffer
	Airports		County Boundary		Project Area

Red Flag Investigation - Water Resources Map
 Liberty Mills Rd/West County Line Rd and CR E 900 S/CR S 800 E Intersections
 Intersection Project
 Allen County and Whitley County, Indiana



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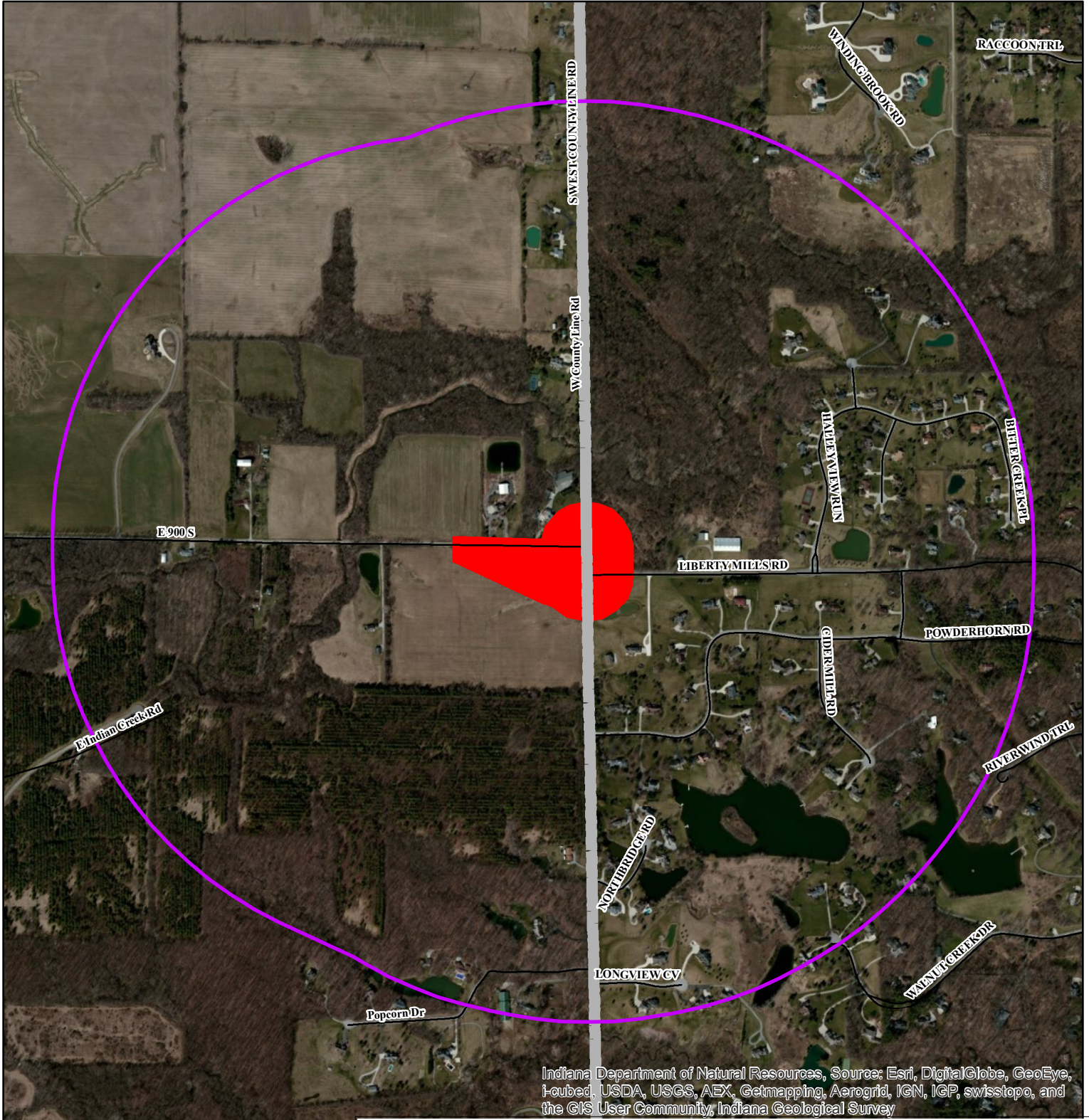


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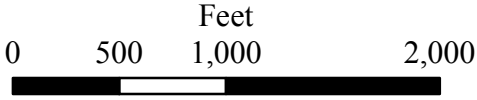


Wetland Points	Historic Canal Route	Line of Protection
Wetland Lines	Historic Canal Structure	Interstates
Wetlands	Lake - Impaired	State Route
Stream - Impaired	Floodplain	US Route
Outstanding Rivers	Karst Springs	Local Road
National River Inventory (NRI)	Cave Entrance Density	County Boundary
Linear Waterbody	Sinkhole Areas	Half Mile Buffer
Waterbody Areas	Sinking-Stream Basins	Project Area

Red Flag Investigation - Mining/Mineral Exploration Map
 Liberty Mills Rd/West County Line Rd and CR E 900 S/CR S 800 E Intersections
 Intersection Project
 Allen County and Whitley County, Indiana



Indiana Department of Natural Resources, Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Indiana Geological Survey



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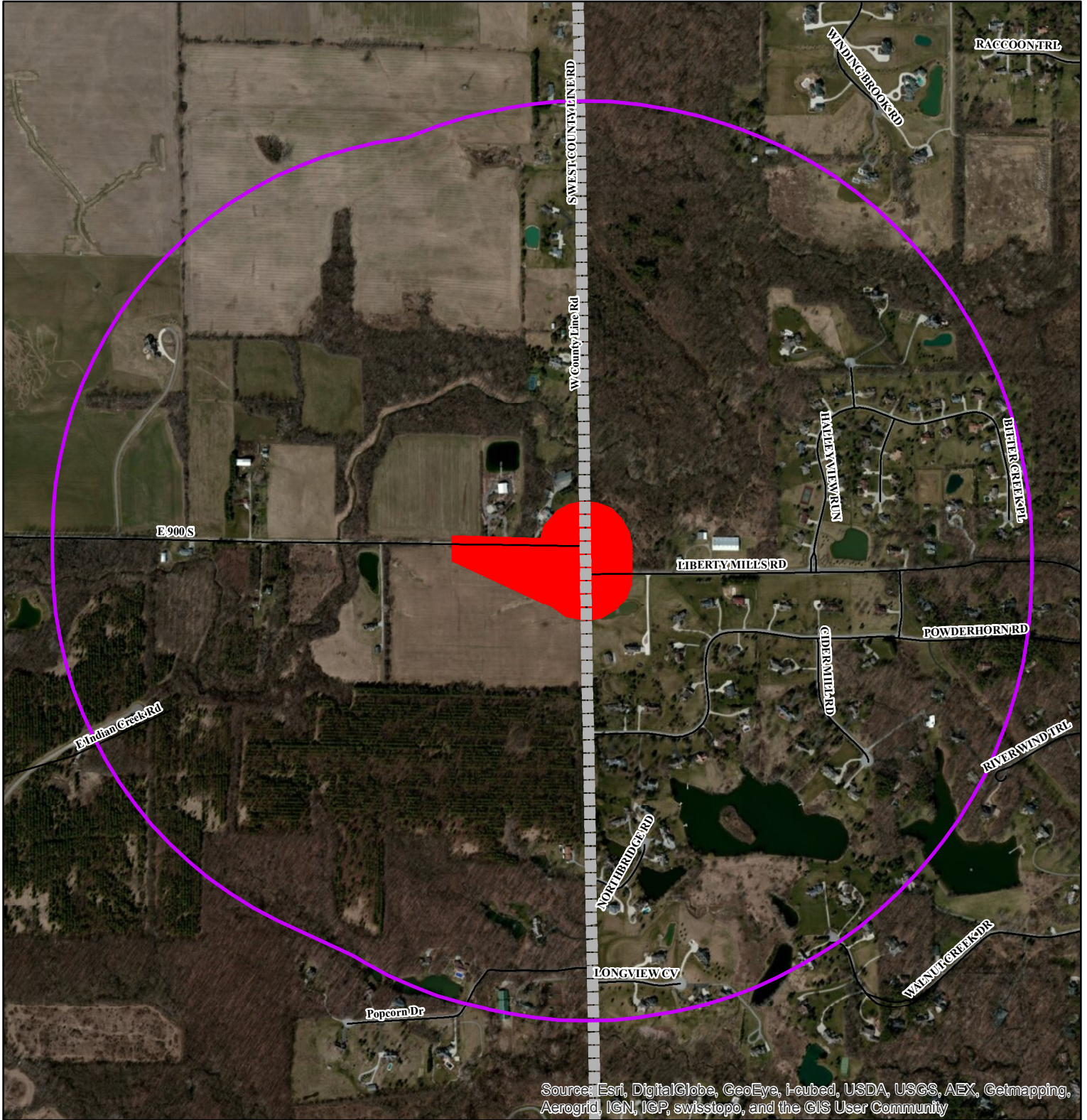


7/13



Mines - Underground	Gas Wells	Interstates
Mines - Surface	Gas Storage Wells	State Route
Gas	Oil Wells	US Route
Oil	Service Wells	Local Road
Oil/gas	Stratigraphic Test Wells	County Boundary
	Dry Wells	Half Mile Buffer
	Unknown Wells	Project Area

Red Flag Investigation - Hazmat Concerns Map
Liberty Mills Rd/West County Line Rd and CR E 900 S/CR S 800 E Intersections
Intersection Project
Allen County and Whitley County, Indiana



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
































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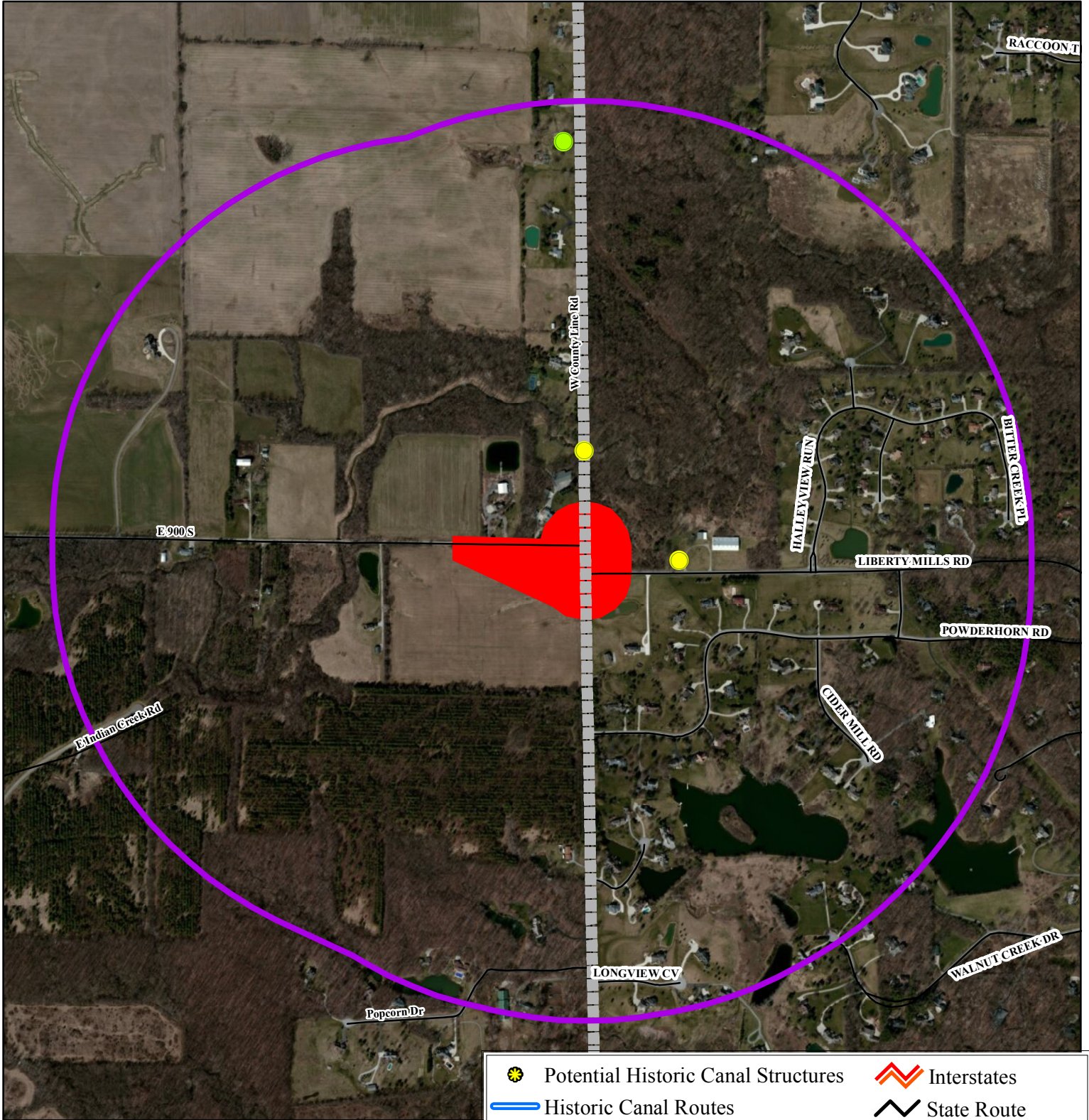
***See next page for Map Legend**



Red Flag Investigation - Hazmat Concerns Legend
 Liberty Mills Rd/West County Line Rd and CR E 900 S/CR S 800 E Intersections
 Intersection Project
 Allen County and Whitley County, Indiana

	Confined Feeding Operations		Brownfields
	Industrial Waste Site		State Cleanup Sites
	Waste Treatment Storage Disposal		Voluntary Remediation Program Sites
	Waste Septage Sites		Institutional Controls
	Waste Tire Sites		Leaking Underground Storage Tank
	Construction Demolition Waste		Underground Storage Tank
	Waste Solid Active Permitted		Manufactured Gas Plants
	Composting Facilities		Waste Transfer Stations
	Open Dumps		Waste Restricted Sites
	Waste Old Landfills		Interstates
	Landfill Sites		State Route
	NPDES Facility		US Route
	NPDES Pipe		Local Road
	Corrective Action Sites		County Boundary
	Superfund		Half Mile Buffer
			Project Area

Red Flag Investigation - Historical Features Map
 Liberty Mills Rd/West County Line Rd and CR E 900 S/CR S 800 E Intersections
 Intersection Project
 Allen County and Whitley County, Indiana



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7/13



- | | |
|---|------------------|
| Potential Historic Canal Structures | Interstates |
| Historic Canal Routes | State Route |
| Non-Select Bridge | US Route |
| Select Bridge | Local Road |
| Historical Sites | County Boundary |
| Potential Historical Sites | Half Mile Buffer |
| IHSSI Sites | Project Area |
| Historical Areas or Districts | |
| Potential Historical Areas or Districts | |

Indiana County Endangered, Threatened and Rare Species List

County: **Allen**

Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
Epioblasma obliquata perobliqua	White Cat's Paw Pearlymussel	LE	SE	G1T1	SX
Epioblasma torulosa rangiana	Northern Riffleshell	LE	SE	G2T2	SX
Lampsilis fasciola	Wavyrayed Lampmussel		SSC	G5	S3
Obovaria subrotunda	Round Hickorynut		SSC	G4	S1
Pleurobema clava	Clubshell	LE	SE	G2	S1
Ptychobranthus fasciolaris	Kidneyshell		SSC	G4G5	S2
Quadrula cylindrica cylindrica	Rabbitsfoot	C	SE	G3G4T3	S1
Toxolasma lividus	Purple Lilliput		SSC	G3	S2
Villosa fabalis	Rayed Bean	C	SSC	G2	S1
Insect: Odonata (Dragonflies & Damselflies)					
Tachopteryx thoreyi	Gray Petaltail		SR	G4	S2S3
Fish					
Moxostoma valenciennesi	Greater Redhorse		SE	G4	S2
Percina evides	Gilt Darter		SE	G4	S1
Amphibian					
Ambystoma laterale	Blue-spotted Salamander		SSC	G5	S2
Hemidactylium scutatum	Four-toed Salamander		SE	G5	S2
Rana pipiens	Northern Leopard Frog		SSC	G5	S2
Reptile					
Clemmys guttata	Spotted Turtle		SE	G5	S2
Clonophis kirtlandii	Kirtland's Snake		SE	G2	S2
Emydoidea blandingii	Blanding's Turtle		SE	G4	S2
Sistrurus catenatus catenatus	Eastern Massasauga	C	SE	G3G4T3T4Q	S2
Bird					
Asio flammeus	Short-eared Owl		SE	G5	S2
Bartramia longicauda	Upland Sandpiper		SE	G5	S3B
Buteo lineatus	Red-shouldered Hawk		SSC	G5	S3
Buteo platypterus	Broad-winged Hawk	No Status	SSC	G5	S3B
Circus cyaneus	Northern Harrier		SE	G5	S2
Dendroica cerulea	Cerulean Warbler		SE	G4	S3B
Falco peregrinus	Peregrine Falcon	No Status	SE	G4	S2B
Haliaeetus leucocephalus	Bald Eagle	LT,PDL	SE	G5	S2
Ixobrychus exilis	Least Bittern		SE	G5	S3B
Lanius ludovicianus	Loggerhead Shrike	No Status	SE	G4	S3B
Nyctanassa violacea	Yellow-crowned Night-heron		SE	G5	S2B
Nycticorax nycticorax	Black-crowned Night-heron		SE	G5	S1B
Phalaropus tricolor	Wilson's Phalarope		SSC	G5	SHB
Sturnella neglecta	Western Meadowlark		SSC	G5	S2B
Tyto alba	Barn Owl		SE	G5	S2

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

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting
State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list
GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank
SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

Indiana County Endangered, Threatened and Rare Species List

County: Allen

Species Name	Common Name	FED	STATE	GRANK	SRANK
Wilsonia citrina	Hooded Warbler		SSC	G5	S3B
Mammal					
Lynx rufus	Bobcat	No Status	SSC	G5	S1
Taxidea taxus	American Badger		SSC	G5	S2
Vascular Plant					
Andromeda glaucophylla	Bog Rosemary		SR	G5	S2
Armoracia aquatica	Lake Cress		SE	G4?	S1
Chelone obliqua var. speciosa	Rose Turtlehead		WL	G4T3	S3
Circaea alpina	Small Enchanter's Nightshade		SX	G5	SX
Coeloglossum viride var. virescens	Long-bract Green Orchis		ST	G5T5	S2
Crataegus succulenta	Fleshy Hawthorn		SR	G5	S2
Euphorbia obtusata	Bluntleaf Spurge		SE	G5	S1
Phlox ovata	Mountain Phlox		SE	G4	S1
Platanthera psycodes	Small Purple-fringe Orchis		SR	G5	S2
Poa alsodes	Grove Meadow Grass		SR	G4G5	S2
Scutellaria parvula var. parvula	Small Skullcap		SX	G4T4	SX
Spiranthes lucida	Shining Ladies'-tresses		SR	G5	S2
Spiranthes magnicamporum	Great Plains Ladies'-tresses		SE	G4	S1
High Quality Natural Community					
Forest - flatwoods central till plain	Central Till Plain Flatwoods		SG	G3	S2
Forest - floodplain mesic	Mesic Floodplain Forest		SG	G3?	S1
Forest - floodplain wet-mesic	Wet-mesic Floodplain Forest		SG	G3?	S3
Forest - upland dry	Dry Upland Forest		SG	G4	S4
Forest - upland dry-mesic	Dry-mesic Upland Forest		SG	G4	S4
Forest - upland mesic	Mesic Upland Forest		SG	G3?	S3
Lake - pond	Pond		SG	GNR	SNR
Prairie - dry-mesic	Dry-mesic Prairie		SG	G3	S2
Wetland - marsh	Marsh		SG	GU	S4
Wetland - swamp forest	Forested Swamp		SG	G2?	S2
Wetland - swamp shrub	Shrub Swamp		SG	GU	S2
Other					
Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade	Water Fall and Cascade			GNR	SNR

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
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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
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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: Whitley

Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
Lampsilis fasciola	Wavyrayed Lampmussel		SSC	G5	S3
Pleurobema clava	Clubshell	LE	SE	G2	S1
Ptychobranthus fasciolaris	Kidneyshell		SSC	G4G5	S2
Toxolasma lividus	Purple Lilliput		SSC	G3	S2
Mollusk: Gastropoda					
Campeloma decisum	Pointed Campeloma		SSC	G5	S2
Insect: Lepidoptera (Butterflies & Moths)					
Poanes viator viator	Big Broad-winged Skipper		ST	G5T4	S2
Fish					
Coregonus artedi	Cisco		SSC	G5	S2
Amphibian					
Rana pipiens	Northern Leopard Frog		SSC	G5	S2
Reptile					
Emydoidea blandingii	Blanding's Turtle		SE	G4	S2
Sistrurus catenatus catenatus	Eastern Massasauga	C	SE	G3G4T3T4Q	S2
Bird					
Ammodramus henslowii	Henslow's Sparrow		SE	G4	S3B
Ardea herodias	Great Blue Heron			G5	S4B
Lanius ludovicianus	Loggerhead Shrike	No Status	SE	G4	S3B
Rallus limicola	Virginia Rail		SE	G5	S3B
Sturnella neglecta	Western Meadowlark		SSC	G5	S2B
Mammal					
Mustela nivalis	Least Weasel		SSC	G5	S2?
Taxidea taxus	American Badger		SSC	G5	S2
Vascular Plant					
Andromeda glaucophylla	Bog Rosemary		SR	G5	S2
Bidens beckii	Beck Water-marigold		ST	G4G5	S1
Carex alopecoidea	Foxtail Sedge		SE	G5	S1
Carex atlantica ssp. atlantica	Atlantic Sedge		ST	G5T4	S2
Carex chordorrhiza	Creeping Sedge		SE	G5	S1
Carex limosa	Mud Sedge		SE	G5	S1
Coeloglossum viride var. virescens	Long-bract Green Orchis		ST	G5T5	S2
Eleocharis equisetoides	Horse-tail Spikerush		SE	G4	S1
Eriocaulon aquaticum	Pipewort		SE	G5	S1
Eriophorum gracile	Slender Cotton-grass		ST	G5	S2
Phlox ovata	Mountain Phlox		SE	G4	S1
Plantago cordata	Heart-leaved Plantain		SE	G4	S1
Potamogeton friesii	Fries' Pondweed		ST	G4	S1

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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: Whitley

Species Name	Common Name	FED	STATE	GRANK	SRANK
Potamogeton praelongus	White-stem Pondweed		ST	G5	S1
Potamogeton pusillus	Slender Pondweed		WL	G5	S2
Potamogeton richardsonii	Redheadgrass		SR	G5	S2
Potamogeton robbinsii	Flatleaf Pondweed		SR	G5	S2
Potamogeton strictifolius	Straight-leaf Pondweed		ST	G5	S1
Spiranthes lucida	Shining Ladies'-tresses		SR	G5	S2
Utricularia minor	Lesser Bladderwort		ST	G5	S1
Utricularia resupinata	Northeastern Bladderwort		SE	G4	S1
High Quality Natural Community					
Forest - upland dry-mesic	Dry-mesic Upland Forest		SG	G4	S4
Forest - upland mesic	Mesic Upland Forest		SG	G3?	S3
Lake - lake	Lake		SG	GNR	S2
Wetland - fen	Fen		SG	G3	S3
Wetland - marsh	Marsh		SG	GU	S4

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