### AMERICAN TRANSMISSION SYSTEMS, INCORPORATED A FIRSTENERGY COMPANY

### **LETTER OF NOTIFICATION**

## HAWTHORNE SUBSTATION EXPANSION PROJECT OPSB CASE NO.: 25-0876-EL-BLN

**November 24, 2025** 

American Transmission Systems, Incorporated 341 White Pond Drive Akron, OH 44320-1119

# LETTER OF NOTIFICATION HAWTHORNE SUBSTATION EXPANSION PROJECT OPSB CASE No. 25-0876-EL-BLN

The following information is being provided in accordance with Chapter 4906-6 of the Ohio Administrative Code ("Adm.Code") for the application and review of Accelerated Certificate Applications. Based upon the requirements found in Appendix A to Adm.Code 4906-1-01, this Project qualifies for submittal to the Ohio Power Siting Board ("OPSB") as a Letter of Notification application.

#### 4906-6-05: ACCELERATED APPLICATION REQUIREMENTS

#### 4906-6-05(B)(1): Name and Reference Number

Name of Project: Hawthorne Substation Expansion Project ("Project")

Reference Number: 634

#### 4906-6-05(B)(1): Brief Description of Project and Reference Numbers

In this Project, American Transmission Systems, Incorporated, ("ATSI"), a FirstEnergy company, is proposing to expand the existing Hawthorne 138 kV Substation to convert the existing substation into a ring bus substation configuration. The substation will expand from its existing square footage of approximately 15,624 square feet to approximately 27,526 square feet. This expansion represents an approximate 76 percent increase in square footage. As part of the Project, the existing Angola-Midway 138 kV Transmission Line will be re-terminated inside the reconfigured Hawthorne Substation. This will create the Angola-Hawthorne 138 kV Transmission Line and Hawthorne-Midway 138 kV Transmission Line. The existing structures outside of the Hawthorne Substation will remain, and new conductors will be strung from the existing structure immediately outside of Hawthorn Substation to the new substation take-off structures.

The Project is in the city of Toledo, Lucas County, Ohio. The general location of the proposed Project is shown in Exhibit 1, a partial copy of the United States Geologic Survey

("USGS") Topographic Map, Lucas County, Ohio Quad Map. Exhibit 2 provides a partial copy of ESRI aerial imagery. The general layout is shown in Exhibit 3.

#### 4906-6-05(B)(1): Letter of Notification Requirements

The Project meets the requirements for a Letter of Notification because the Project is within the types of projects defined by Item (4)(b) of the Application Requirement Matrix for Electric Power Transmission Lines, Appendix A of Adm.Code 4906-1-01. This item states:

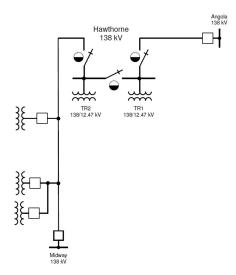
- (4) Constructing additions to existing electric power transmission stations or converting distribution stations to transmission stations where:
  - (b) There is a greater than twenty percent expansion of the fenced area.

The proposed Project is within the requirements of Item (4)(b) because it involves constructing additions to existing electric power transmission station greater than twenty percent expansion of the fenced area.

#### 4906-6-05(B)(2): Need for the Project

Hawthorne Substation is a 138-12.47 kV substation located in Lucas County, Ohio and serves as the distribution substation to the surrounding area. The proposed Project includes the upgrade of the 138 kV portion of the substation, which is currently configured as a straight bus as shown in Figure 1. A straight bus configuration is one in which breakers or switches for multiple elements are connected to a common bus. The Project will reconfigure and upgrade the 138 kV bus configuration to a more resilient ring bus configuration. The Project is needed to: (i) reduce the number of area-wide power disruptions to residential and commercial customers due to transmission outages; (ii) improve the reliability of the transmission and the local distribution network by upgrading the substation with a redundant bus and protection scheme; and (iii) eliminate the simultaneous outages of multiple transmission facilities in the area.

#### FIGURE 1



The Angola–Midway 138 kV Transmission Line is approximately 22 miles in length and serves four delivery points; two distribution substations (Hawthorne and Angola substations), and two retail connections, one of which is a hospital. The Angola – Midway 138 kV Transmission Line serves approximately 56 Megawatts ("MW") of load and over 13,400 customers.

Hawthorne Substation is located in Lucas County and is a Toledo Edison distribution substation. Hawthorne Substation is located approximately 4.6 miles from Angola Substation, another 138-12.47 kV Toledo Edison distribution substation. As a distribution hub, the Hawthorne Substation directly serves approximately 35 MW of peak load and approximately 7,500 Toledo Edison distribution customers.

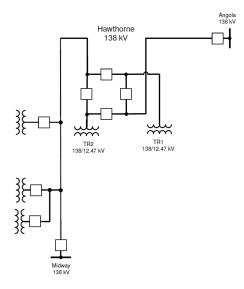
In the existing Hawthorne Substation, the 138 kV portion of the substation is in a straight bus configuration. A fault on the bus or a transformer fault would result in an outage of the entire 138 kV bus, the two distribution transformers, and will trip the Angola – Midway 138 kV Transmission Line. This would result in approximately 56 MW and over 13,400 customers interrupted as a result of the outage.

Furthermore, a fault on the Angola–Midway 138 kV Transmission Line will result in an outage to all customers connected to the transmission line, including the customers served from Hawthorne Substation. Any fault that results in the Angola–Midway 138 kV

Transmission Line being interrupted will outage the two retail connections that impacts approximately 3 MW, the Hawthorne Substation which impacts approximately 35 MW of peak load and approximately 7,500 Toledo Edison distribution customers and will impact the #1 138-12.47 kV transformer at Angola Substation that serves over 5,900 customers and approximately 18 MW of load. This leads to the total impact of the outage being approximately 75 MW and over 17,500 customers interrupted as a result of the transmission line interruption.

The proposed Project to build a four-breaker ring bus configuration at Hathorne Substation, as shown in Figure 2, will significantly reduce the likelihood of a simultaneous outage of multiple facilities due to a bus fault or transformer fault condition which would result in the direct loss of electric service. The Project will also increase the reliability and operational flexibility of the transmission system. The proposed ring bus arrangement ensures that no more than two elements would trip due to a breaker failure condition. FirstEnergy's transmission planning is based on deterministic criteria, and not probabilistic criteria. In other words, ATSI's transmission planning assessments result in recommendations to reinforce the transmission system based on an adverse planning event occurring and not based on the probability of the event occurring. ATSI cannot know or predict when a failure or fault will occur.

FIGURE 2



In the last five years, there have been three unscheduled outages on the Angola–Midway 138 kV Transmission Line as shown in Table 1. The shortest outage time was a few seconds, while the longest outage lasted almost fifteen minutes. The average outage time was 6 minutes. Two of the outages were related to human error and one outage was due to weather.

Table 1. Reliability outage history for Angola - Midway 138 kV Transmission Line

Outage Start	Outage Restored	Duration	Outage Type	Cause Category	Cause	Customers Impacted
12/11/2021 10:30:40	12/11/2021 10:33:56	3m 16s.	Unscheduled	Weather, excluding lightning	Wind	7,458
05/25/2022 14:29:00	05/25/2022 14:29:31	31s.	Unscheduled	Human Error	Human Error During Construction	7,458
03/29/2024 09:52:44	03/29/2024 10:06:54	14m 10s.	Unscheduled	Human Error	Human Error During Construction	0

The proposed Project will upgrade the Hawthorne Substation to meet the current minimum FirstEnergy design standard for new substations and eliminate the contingency scenarios discussed above. The minimum FirstEnergy requirements for new transmission substations are either a "breaker-and-a-half" configuration or a "ring bus" configuration as documented in FirstEnergy's "Requirements for Transmission Connected Facilities" document. Three types of breaker configurations were considered when planning the upgrade to the Hawthorne Substation – the "double-breaker" configuration, the "breaker-and-a-half" configuration, and the "ring bus" configuration. All the considered alternatives meet the requirements outlined in FirstEnergy's "Requirements for Transmission Connected Facilities" document.

The double-breaker configuration would be the most reliable substation configuration because it provides full redundancy for every terminal (i.e., two breakers per substation element/terminal). In the double-breaker scheme, a single element is fed from two breakers connected to two separate buses: therefore, doubling the number of breakers required, and providing a fully redundant protection scheme. The double-breaker configuration is also the most expensive option, as it would require the greatest number of circuit breakers – eight breakers would be required for the four elements (two transformers and two transmission lines). Consequently, the double-breaker configuration was not selected.

In the breaker-and-a-half scheme, while two buses are still used, three breakers are connected in a string between the two buses. The two nodes between the three breakers provide for the connection of two elements. Thus, three breakers supply two elements, or a "breaker-and-a half" per element. The middle breaker is common to both elements and the scheme is not fully redundant as the failure of the middle breaker will cause the outage of both elements. In the breaker-and-half configuration at most two elements are interrupted for a failed or faulted breaker. However, because the number of breakers required to connect the four transmission terminals for this project is six breakers, the breaker-and-half configuration was not selected.

The ring bus configuration was ultimately selected, as it will only require four breakers to adequately serve the two transmission lines and two transformers and provide additional reliability and operational flexibility. Upgrading the substation to a robust ring-bus configuration will provide the ability to provide redundant service to the distribution transformers, improve operational flexibility and efficiency during outages, maintenance, and restoration efforts, and reduce the potential of local load loss due to the transmission line and substation configuration. Note that the proposed substation project is not needed to address a NERC, PJM, or FirstEnergy Planning Criteria violation. The Project is a supplemental project driven by the FirstEnergy System Performance Excellence methodology based on the existing system configuration and its impact on the reliability of electric service to the residents and businesses of the area.

The Project will enhance the reliability and resiliency of the power system in the area. The new ring bus configuration at Hawthorne Substation will reduce the potential for customer outages in the area.

With the expansion and reconfiguration of the Hawthorne Substation, ATSI did not consider the use of any advanced transmission technologies because the majority of the work will be completed within the existing substation. Some examples of advanced technologies that ATSI considers while proposing reliability projects are the use of Dynamic Line Rating technologies and/or the use of advanced conductors. Dynamic Line Rating technologies is the use of software and hardware to determine the thermal limits of

a transmission line in real time based on rating methodologies and ambient conditions within a given area which can either increase or decrease the thermal ratings of the transmission line. Advanced conductors are the use of conductors with non-steel wire cores that are typically used in conventional transmission line conductors. These advanced conductors allow for increased capacity on a given transmission line due to the reduced sagging of the transmission line conductor when operated at higher temperatures. These advanced technologies were not considered because the project scope is primarily within a substation and the transmission lines connected to the substation, as it is designed today, do not have any capacity constraints.

The need for the proposed Project was presented at the May 19, 2022, Subregional Regional Transmission Expansion Plan ("RTEP") Committee – Western meeting. The solution for the proposed Project was presented at the August 16, 2024, Subregional RTEP Committee – Western meeting. PJM assigned supplemental number s3543.1 for the Project. The PJM SRRTEP-Western presentation slides are included as Exhibit 4 and provide additional details of the Project drivers.

#### 4906-6-05(B)(3): Location of the Project Relative to Existing or Proposed Lines

The location of the Project relative to existing or proposed lines is shown in the ATSI Transmission Network Map, included as part of the confidential portion of the FirstEnergy Corp. 2025 Long-Term Forecast Report. This map was submitted to the PUCO in Case No. 25-0504-EL-FOR under Adm.Code 4901:5-5:04 (C)(2)(b). The map is incorporated by reference only. The Project is included in ATSI's LTFR filed in 2025 on page 80. The general location and layout of the Project area are shown in Exhibits 1 and 2. The Project layout is shown in Exhibit 3.

#### 4906-6-05(B)(4): Alternatives Considered

In addition to the substation configurations discussed above, another alternative considered to the proposed Project was to maintain the existing configuration and the elevated risk of exposure. ATSI determined that, due to the number of customers impacted and the

magnitude of load at risk, it would pursue the recommended solution to provide increased reliability and operational flexibility to customers.

#### 4906-6-05(B)(5): Public Information Program

ATSI's manager of External Affairs will advise local officials of features and the status of the proposed Project as necessary. ATSI will maintain a Project website and will continue to work with property owners concerning the proposed Project. The website address is below:

https://www.firstenergycorp.com/about/transmission\_projects/ohio.html.

ATSI will publish notice of the Project in The Toledo Blade within 7 days of filing this Letter of Notification application. The notice will comply with Adm.Code 4906-6-08(A)(1)-(6).

Finally, during all phases of this Project, ATSI will maintain the transmission projects hotline at 1-888-311-4737 or via email at: <u>transmissionprojects@firstenergycorp.com</u> where the public may ask questions or leave comments on the Project for ATSI.

#### 4906-6-05(B)(6): Construction Schedule

The construction schedule for this Project is expected to begin as early as March 2, 2026, and to be completed by December 31, 2026.

#### 4906-6-05(B)(7): Area Map

Exhibit 1 provides a partial copy of the USGS Topographic Map, Lucas County, Ohio Quad Map. Exhibit 2 provides a partial copy of ESRI aerial imagery.

#### 4906-6-05(B)(8): Properties List

The Project is located entirely within existing right-of-way on Parcel No. 2100864, owned by Toledo Edison Company and Parcel No. 2101004, owned by ATSI. No new Easements will be required for completion of this Project.

#### 4906-6-05 (B) (9): TECHNICAL FEATURES OF THE PROJECT

#### 4906-6-05(B)(9)(a): Operating Characteristics

The equipment and facilities described below are associated with the substation

expansion:

Materials:

Voltage: 145 kV Max System Voltage (550 kV BIL)
Bus Conductor: 4" Aluminum Pipe (2) 1590 KCMIL 61str AAC

Insulators: Porcelain

Breakers: Four (4) 145 kV 3000 A 40 kA Siemens SPS2S Breakers and

associated disconnect switches

Switches: Eight (8) 145 kV, 2000 A Gang-Operated Switches

Four (4) 138k, 1200A Motor Operated Switches

CVT's: Two (2) New Sets of (3) 138kV CCVTs, metering class, dual

secondary

WT's: One (1) 138 kV 2000 A Single-Phase Wave Trap

Line Tuner: Single frequency line-ground coupled, series L-C line tuning unit,

frequency range: 30-500 kHz tuned for 165 kHz

Arresters: Six (6) 108 kV (84kV MCOV) Arresters

Transformer (SSVT): Outdoor distribution transformer(s), single phase, 120/240 V ,100

KVA, secondary, 79675 /13800Y Primary Voltage conventional

type.

Structures: One (1) 15'-0" x 39'-0" Packaged Control Enclosure

One (1) 138kV A-frame dead-end.

One (1) 138kV A-frame dead-end expansion. Six (6) lights mounted to the A-frames

One (1) 138 kV single-phase SSVT structures

Voltage: 138 kV

Conductors: 954 kcmil 45/7 ACSR

Static Wire: 7#8 Alumoweld Insulators: Porcelain/Glass

#### 4906-6-05(B)(9)(b): Electric and Magnetic Field

As this is a substation expansion project and there is no transmission line work outside of the expanded substation fence, no Electric and Magnetic Field ("EMF") calculations are required by this subsection.

#### 4906-6-05(B)(9)(c): Estimated Cost

The estimated cost for the proposed Project is \$22,036,000. Although not statutorily required for approval, at the request of OPSB Staff, ATSI confirms that ATSI's costs will be captured and allocated via FERC formula rates for the ATSI Transmission Zone, Attachment H-21 in the PJM OATT.

#### 4906-6-05(B)(10): SOCIAL AND ECOLOGICAL IMPACTS

#### 4906-6-05(B)(10)(a): Land Uses

The Project is in the city of Toledo, Lucas County, Ohio. The Project area is in commercial area. No significant changes or impacts to the current or future land use are anticipated.

#### 4906-6-05 (B)(10)(b): Agricultural Land

Agricultural land does not exist within the Project's Area of Potential Effect ("APE").

#### 4906-6-05 (B)(10)(c): Archaeological or Cultural Resources

As part of the investigation for this Letter of Notification, TRC Companies, Inc. ("TRC") requested database information from the Ohio Historic Preservation Office's ("SHPO") on May 15, 2024 for the Project Study Area (Area of Potential Effect or "APE") with a one (1)-mile search radius. This data documents the presence of previously recorded significant historic properties, including above-ground historic resources and/or archaeological sites within the Project Study Area or within one (1) mile of the Project Study Area. On June 10, 2024, SHPO replied to the request, and response is attached as Exhibit 5. In August of 2025, the Project Study Area was expanded from the original 1.7 acres to the west since the initial consultation with SHPO and now totals 2.92 acres in size. A letter notifying SHPO on this update to the Project Study Area was submitted by TRC on August 12, 2025. The response received on September 9, 2025, is attached as part of Exhibit 5. SHPO concurred that the Project, as proposed, will not affect any historic properties or cultural resources. No further coordination is required unless the scope of work changes or new/additional archaeological deposits are discovered during construction.

The SHPO database includes a catalog all historic properties listed in or eligible for listing in the National Register of Historic Places (NRHP), including districts, sites, building, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture. The original provided data and the updated online mapping system review revealed no historic properties recorded within one (1) mile of the Project Study Area.

The SHPO database also includes listings on the Ohio Historic Inventory (OHI), the Ohio Archaeological Inventory (OAI), previous cultural resource surveys, and the Ohio Genealogical Society (OGS) cemetery inventory. The initial provided data and updated online mapping system review indicates there are no above-ground historic resources or OGS cemeteries recorded within one (1) mile of the Project Study Area.

There have been three (3) official archaeological surveys conducted within one (1) mile of the Project Study Area. From these surveys and the efforts of local informants, there are five (5) archaeological sites recorded within one (1) mile of the Project Study Area. The sites are located at 0.91 miles northeast, 0.71 miles east, 0.34 miles south, 0.45 miles south-southwest, and 0.73 miles west-northwest. All five (5) are prehistoric open sites that have not yet been assessed for NRHP eligibility.

According to the review, no cultural resource studies are warranted for the Project. Furthermore, as proposed, the Project will have no effect on historic properties. No further coordination is required for this Project unless the scope of work changes or archaeological remains are discovered during the course of the Project.

## 4906-6-05 (B)(10)(d): Construction Filings with Local, State and Federal Governmental Agencies

Coordination is required with the city of Toledo to obtain the necessary right-of-way permit(s) for work within the right-of-way of Heatherdowns Blvd. Earth disturbance over one (1) acre will require a Stormwater Pollution Prevention Plan to be reviewed by the city of Toledo. If disturbance exceeds 1 acre, the submittal of a Notice of Intent application with the Ohio EPA is required for coverage under the general construction stormwater permit

(OHC000006). All permitting and/or coordination necessary to comply with local, state, and federal agencies with jurisdiction regarding this Project will be completed prior to the commencement of construction.

#### 4906-6-05 (B)(10)(e): Endangered, Threatened, and Rare Species Investigation

As part of the investigation, ATSI retained TRC to conduct necessary surveys. TRC submitted a request to the Ohio Department of Natural Resources ("ODNR") Office of Real Estate to conduct an Environmental Review. As part of the Environmental Review, the ODNR Office of Real Estate conducted a search of the ODNR Division of Wildlife's Natural Heritage Database ("DOW") to research the presence of any endangered, threatened, or rare species within one (1) mile of the Project Study Area. The ODNR's Office of Real Estate's response on May 28, 2024, as well as ODNR's Office of Real Estate's response for the expanded area on September 8, 2025, indicated that there are no records of state and/or federally listed plants or animals located within a one (1) mile radius of the Project Study Area. However, the Project is within the range of nineteen (19) state and/or federally listed animal species. A copy of ODNR's Office of Real Estate's response is included as part of Exhibit 6.

Based on the information received from correspondence with ODNR, the Project is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. These bat species predominantly roost in trees behind loose, exfoliating bark, in crevices, and cavities, or in the leaves. These species are dependent on the forest structure surrounding the roost tress. The DOW recommended a desktop bat hibernaculum assessment be completed for the Project, which TRC completed for ATSI and submitted to ODNR for concurrence on September 8, 2025. ODNR responded on September 9, 2025, attached as Exhibit 6A, concurring that no caves, cliffs, or mine openings occur in the Project Study Area; therefore, the Project is not likely to impact hibernating bats. In assessing compliance with NWP General Condition 18, TRC determined that tree clearing is anticipated within

the Project Study Area. Any tree clearing needed as a result of this Project, it will take place within the US Fish and Wildlife Service (USFWS) recommended tree clearing dates (October 1 – March 31); therefore, no impacts to bat species are anticipated as a result of the construction of this Project.

The Project is within the range of the following listed mussel species: the federally endangered rayed bean (*Villosa fabalis*) and snuffbox (*Epioblasma triquetra*); the state endangered eastern pondmussel (*Ligumia nasuta*); and the state threatened pondhorn (*Uniomerus tetralasmus*). Due to the location, and because there is no in-water work proposed in a perennial stream, this Project will not impact mussel species.

The Project is within the range of the following six (6) state listed fish species: the state endangered cisco (*Coregonus artedi*), lake sturgeon (*Acipenser fulvescens*), and western banded killifish (*Fundulus diaphanus menona*); and the state threatened greater redhorse (*Moxostoma valenciennesi*), American eel (*Anguilla rostrata*), and channel darter (*Percina copelandi*). Due to the location, and because there is no in-water work proposed in a perennial stream, this Project will not impact these species.

The Project is within the range of the Blanding's turtle (*Emydoidea blandingii*), a state threatened species. This species inhabits marshes, ponds, lakes, streams, wet meadows, and swampy forests. Although essentially aquatic, the Blanding's turtle will travel over land as it moves from one wetland to the next. Due to the location, the type of habitat within the Project Study Area, and the type of work proposed, this Project is not likely to impact this species.

The Project is within the range of the spotted turtle (*Clemmys guttata*), a state threatened species. This species prefers fens, bogs and marshes, but also is known to inhabit wet prairies, meadows, pond edges, wet woods, and the shallow sluggish waters of small streams and ditches. Due to the location, the type of habitat within the Project Study Area, and the type of work proposed, this Project is not likely to impact this species.

The Project is within the range of the Kirtland's snake (Clonophis kirtlandii), a state threatened species. This secretive species prefers wet fields and meadows. Due to the

location, the type of habitat within the Project Study Area, and the type of work proposed, this Project is not likely to impact this species.

The Project is also within the range of the blue-spotted salamander (*Ambystoma laterale*), a state endangered species. Due to the location, the type of habitat within the Project Study Area, and the type of work proposed, this Project is not likely to impact this species.

The ODNR DOW further indicated that the Project is within the range of the sandhill crane (*Antigone canadensis*), a state threatened species. Sandhill cranes are primarily a wetland-dependent species. On their wintering grounds, they will utilize agricultural fields; however, they roost in shallow, standing water or moist bottomlands. On breeding grounds, they require a rather large tract of wet meadow, shallow marsh, or bog for nesting. Due to the existing developed land use and a lack of suitable habitat within the Project Study Area, this species is not likely to be impacted by the proposed activities.

As part of the investigation, TRC a request to USFWS to research the presence of any endangered, threatened, rare, or designated species within the Project Study Area. Since that date, the Project Study Area expanded to the west and increased in size from 1.7 acres to 2.92 acres. TRC sent an updated request to USFWS regarding the Project and a response was received on May 15, 2025. A copy of USFWS' response is included in Exhibit 7. The response indicated that if no caves or abandoned mines are present and trees ≥3 inches dbh cannot be avoided, USFWS recommends the removal of any trees ≥3 inches dbh only occur between October 1 and March 31 to avoid adverse impacts to the Indiana bat, northern long-eared bat, and the proposed listed tricolored bat. Any tree clearing required as part of the Project will occur during USFWS seasonal tree clearing dates (October 1 and March 31) to avoid adverse impacts to these species.

Additionally, USFWS recommends the following actions to maintain habitat and avoid impacts to monarchs in Ohio: revegetate disturbed areas with native plant species including nectar-producing plants and milkweed endemic to the area; limit mowing monarch butterfly habitat from March 15 to August 31, when monarchs are breeding, and from September 1 to October 31, when large numbers of monarchs are migrating; and avoid the use of

pesticides and herbicides in and near monarch habitat. In order to avoid impacts to this species, any mowing in monarch habitat will be limited to the restriction dates outlined above and no spraying will occur within or near monarch habitat. Due to the Project type, size, and location, USFWS does not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat.

A list of all endangered, threatened, and rare species, as identified by ODNR, within the range of the Project is provided in Table 2.

Table 2. List of Endangered and Threatened Species within range of Project Study Area

Common Name	Scientific Name	Federal Listed Status	State Listed Status	Affected Habitat		
Amphibian						
Blue-spotted salamander	Ambystoma laterale	N/A	Endangered	Moist, damp deciduous or mixed forests.		
Bird						
Sandhill crane	Antigone canadensis	N/A	Threatened	Grassland, prairie, or large tracts of wetland habitat.		
Mammals		_				
Indiana bat	Myotis sodalis	Endangered	Endangered	Trees, forests, caves, and caverns.		
Little brown bat	Myotis lucifugus	N/A	Endangered	Trees, forests, caves, and caverns.		
Northern long- eared bat	Myotis septentrionalis	Endangered	Endangered	Trees, forests, caves, and caverns.		
Tricolored bat	Perimyotis subflavus	Proposed Endangered	Endangered	Trees, forests, caves, and caverns.		
Fish		_				
American eel	Anguilla rostrata	N/A	Threatened	Perennial streams.		
Channel darter	Percina copelandi	N/A	Threatened	Perennial streams.		
Cisco	Coregonus artedi	N/A	Endangered	Perennial streams.		
Greater redhorse	Moxostoma valenciennesi	N/A	Threatened	Perennial streams.		
Lake sturgeon	Acipenser fulvescens	N/A	Endangered	Perennial streams.		
Western banded killifish	Fundulus diaphanus menona	N/A	Endangered	Perennial streams.		
Mussels						

Pondhorn	Uniomerus tetralasmus	N/A	Threatened	Perennial streams.	
Eastern pondmussel	Ligumia nasuta	N/A	Endangered	Perennial streams.	
Snuffbox	Epioblasma triquetra	Endangered	Endangered	Perennial streams.	
Rayed bean	Villosa fabalis	Endangered	Endangered	Perennial streams.	
Reptiles					
Blanding's turtle	Emydoidea blandingii	N/A	Threatened	Marshes, ponds, lakes, streams, wet meadows, and swampy forests.	
Kirtland's snake	Clonophis kirtlandii	N/A	Threatened	Wet fields and meadows.	
Spotted turtle	Clemmys guttata	N/A	Threatened	Fens, bogs and marshes, wet prairies, meadows, pond edges, wet woods, and the shallow sluggish waters of small streams and ditches.	

#### 4906-6-05 (B)(10)(f): Areas of Ecological Concern

TRC conducted wetland and waterways delineation for the Project, as shown in Exhibit 8. The Project Study Area is approximately 2.92 acres in size, located in the city of Toledo, Lucas County, Ohio. During the field investigation, no wetlands or surface waters were delineated or identified within the Project Study Area.

The Project Study Area consists mainly of an existing, maintained utility ROW and substation, and residential property, surrounded by minor upland forested habitat. TRC did not observe the presence of any of the ODNR-listed species during the field investigation due to the highly maintained nature of the utility ROW, the existing facility, and residential property. Therefore, no impacts are anticipated to any of the listed species detailed in the ODNR correspondence.

The Limits of Disturbance (LOD) will be completely within the Project Study Area and will predominantly include using an existing access road and maintained substation facility

for the proposed construction. NWP 57 (effective March 15, 2021, valid through March 14, 2026), authorizes the construction of access roads for the construction and maintenance of electric utility lines or telecommunication lines, including overhead lines and substations, in nontidal waters of the United States, provided the activity does not cause the loss of greater than 0.5-acre of waters of the United States. Nationwide Permit Regional General Conditions were reviewed regarding this Project. The Project is located in the city of Toledo, Lucas County, Ohio, which is within the USACE Buffalo Regulatory District. The Project location is not listed in Appendix 1 to Regional General Condition 5(a) (Endangered Species and Threatened Species). Jurisdictional resources are not present and therefore there is no potential trigger for a Section 404 PCN to USACE and NWP 57 conditions are met.

A review of the USGS Protected Areas Database (www.usgs.gov/programs/gap-analysis-project/science/protected-areas) revealed no conservation easements within the Project Study Area. The National Conservation Easement Database is no longer in use due to the database no longer being actively updated and supported.

#### 4906-6-05(B)(10)(g): Other Information

Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the National Electrical Safety Code as adopted by the PUCO and will meet all applicable safety standards established by the Occupational Safety and Health Administration.

No other or unusual conditions are expected that will result in significant environmental, social, health or safety impacts.

## 4906-6-07: Documentation of Letter of Notification Application Transmittal and Availability for Public Review

This Letter of Notification application is being provided concurrently to the following public officials from the city of Toledo and Lucas County.

#### **Lucas County**

Commissioner Lisa A. Sobecki President, Lucas County Board of Commissioners One Government Center Toledo, OH 43604 lasobecki@co.lucas.oh.us

Commissioner Anita Lopez Lucas County Board of Commissioners One Government Center Toledo, OH 43604 alopez@co.lucas.oh.us

Commissioner Pete Gerken Lucas County Board of Commissioners One Government Center Toledo, OH 43604 pgerken@co.lucas.oh.us Mr. Mike Pniewski, P.E., P.S. Lucas County Engineer 1049 S McCord Road, Holland, OH 43528 mpniewski@co.lucas.oh.us

Ms. Burma Stewart, Director Lucas County Planning and Development Department 3737 W. Sylvania Avenue Toledo, OH 43623 bstewart@co.lucas.oh.us

#### **City of Toledo**

Mayor Wade Kapszukiewicz City of Toledo One Government Center 640 Jackson Street, Toledo, OH 43604 Wade.Kapszukiewicz@toledo.oh.gov

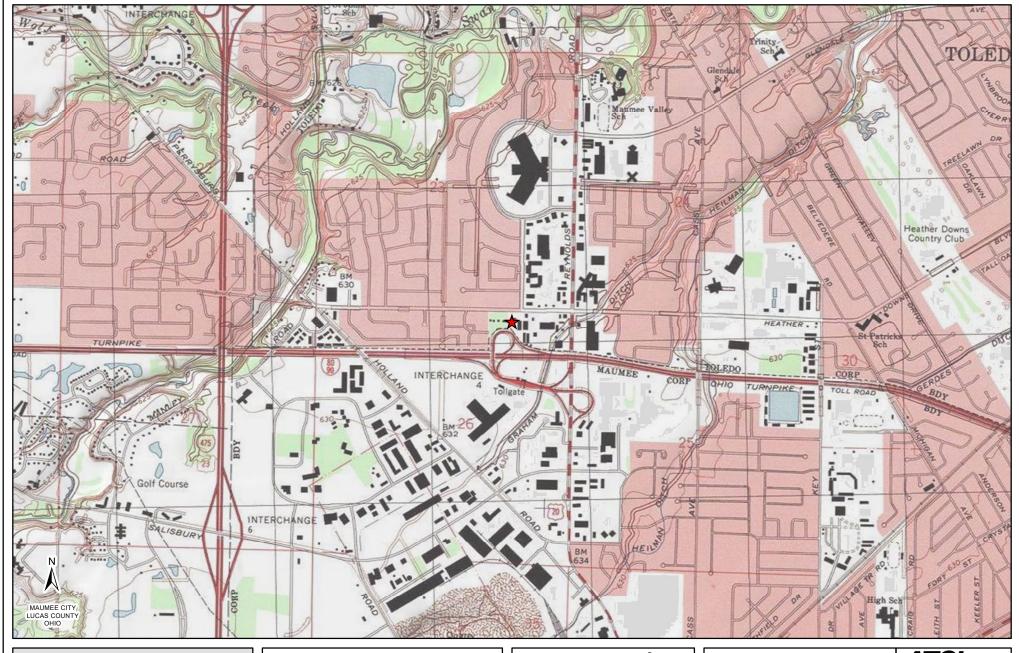
Carrie Hartman, President City of Toledo Council One Government Center 640 Jackson Street, Toledo, OH 43604 carrie.hartman@toledo.oh.gov

#### Library

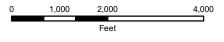
Ms. Tiana Tutu-Anokye, Manager Maumee Branch Library 501 River Rd, Maumee, OH 43537 tiana.tutu-anokye@toledolibrary.org Mr. Thomas C. Gibbons, Director Toledo-Lucas County Planning Commission One Government Center, Suite 1620 Toledo, OH 43604 thomas.gibbons@toledo.oh.gov

Mr. Thomas C. Skrobola Finance Director, City of Toledo One Government Center Toledo, OH 43604 thomas.skrobola@toledo.oh.gov Per Adm.Code 4906-6-07(B), exemplar copies of the notice letters sent to local government officials and to the library have been included with this application as proof of compliance with requirements of Adm.Code 4906-6-07(A)(1) and 4906-6-07(A)(2).

Information is posted at <a href="www.firstenergycorp.com/about/transmission\_project/ohio.html">www.firstenergycorp.com/about/transmission\_project/ohio.html</a> on how to request an electronic or paper copy of this Letter of Notification application. The link to this website is being provided in accordance with Adm.Code 4906-6-07(B), which requires ATSI to provide the OPSB with proof of compliance with Adm.Code 4906-6-07(A)(3).







#### Reference:

USGS Topographical Overlay; ODOT

#### Coordinate System:

NAD 1983 StatePlane Ohio North FIPS 3401 Feet Projection: Lambert Conformal Conic; Units: Foot US

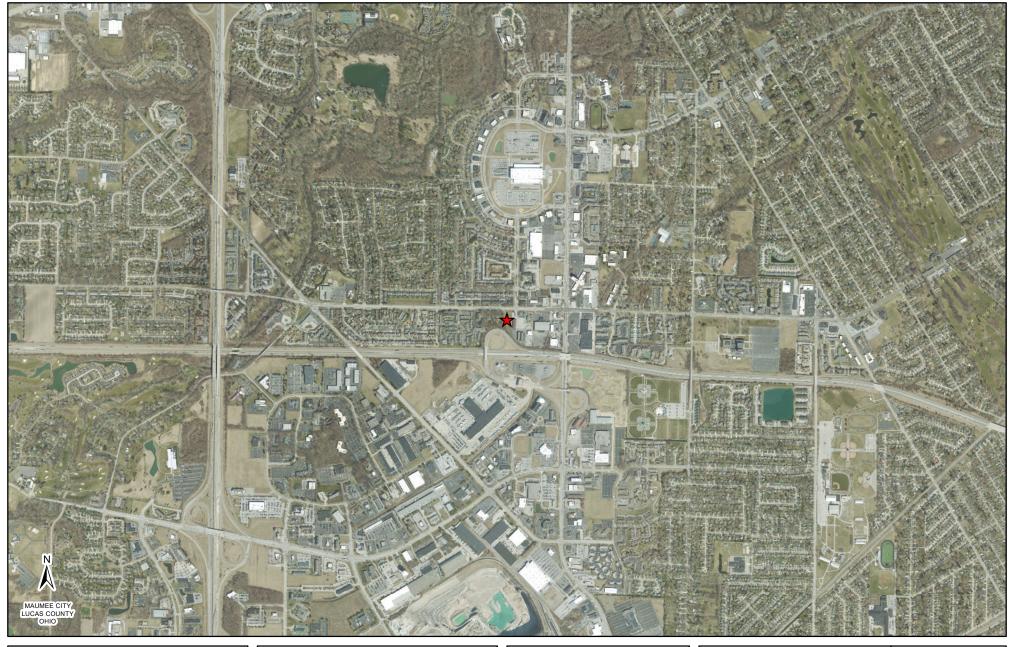


### **EXHIBIT 1**

ATSI®

American Transmission Systems, In a subsidiary of tratements Corp.

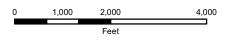
Hawthorne Substation Expansion and 138 kV Transmission Lines Reconfiguration Project







★ Project Location



#### Reference:

ESRI Imagery; ODOT

Coordinate System:

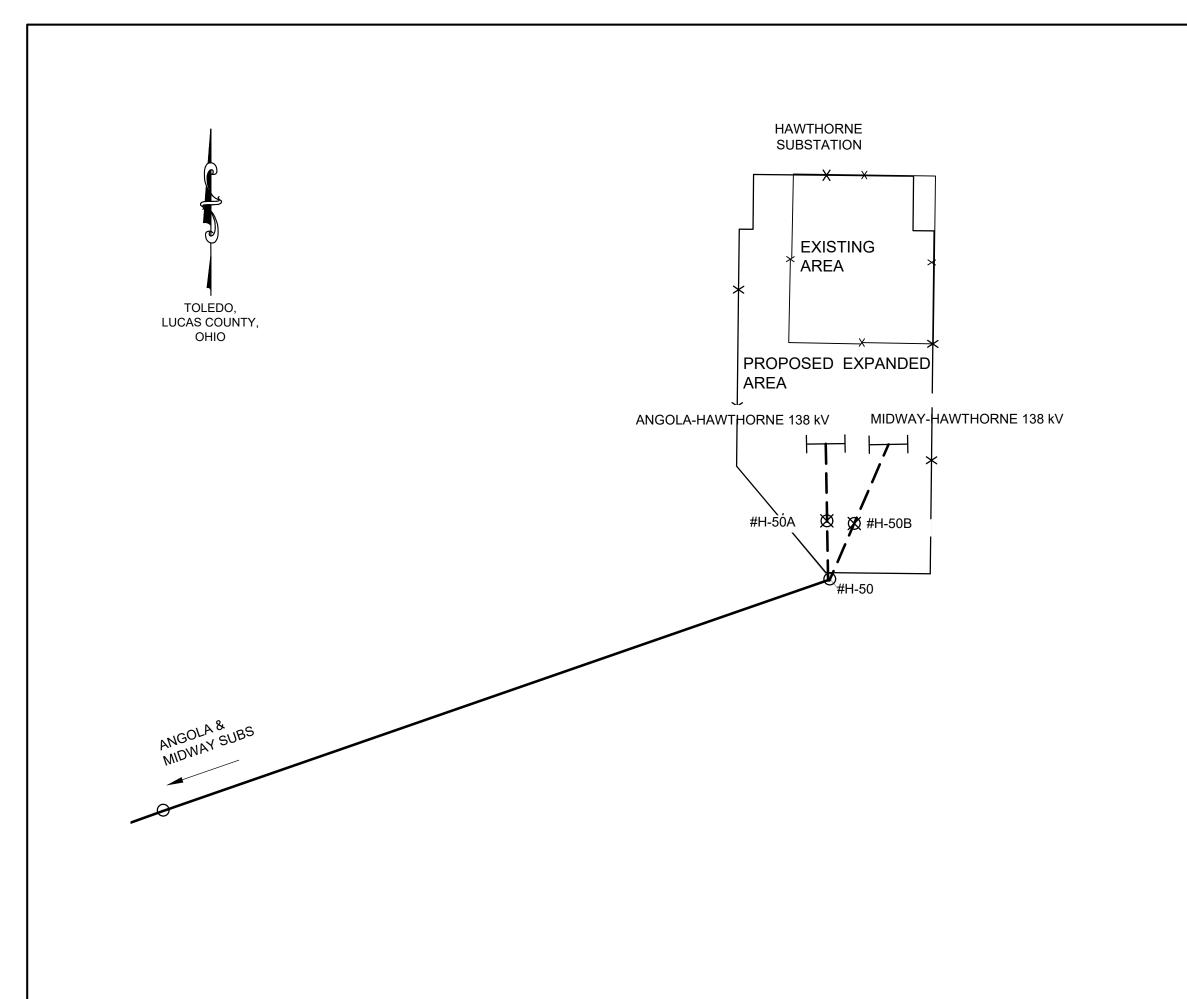
NAD 1983 StatePlane Ohio North FIPS 3401 Feet
Projection: Lambert Conformal Conic; Units: Foot US

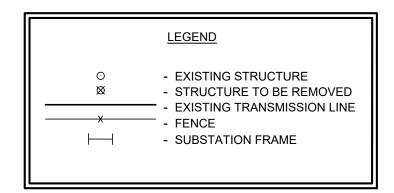


## **EXHIBIT 2**



Hawthorne Substation Expansion and 138 kV Transmission Lines Reconfiguration **Project** 





ATSI®

American Transmission Systems, Inc. a subsidiary of FirstEnergy Corp.

HAWTHORNE SUBSTATION EXPANSION PROJECT

GENERAL LAYOUT

**EXHIBIT 3** 

SCALE: NTS



### **EXHIBIT 4**

## ATSI Transmission Zone M-3 Process Angola – Midway 138 kV Line

Need Number: ATSI-2022-013

Process Stage: Solution Meeting – 08/16/2024
Previously Presented: Need Meeting – 05/19/2022

#### **Supplemental Project Driver(s):**

Operational Flexibility and Efficiency Equipment Material Condition, Performance and Risk Infrastructure Resilience

#### **Specific Assumption Reference(s):**

**Global Considerations** 

- System reliability and performance
- Load at risk in planning and operational scenarios
- Load and/or customers at risk on single transmission lines
- Substation/line equipment limits

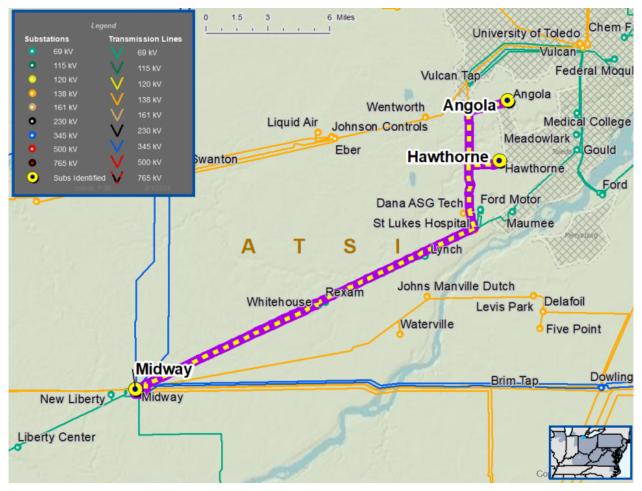
Add/Expand Bus Configuration

Loss of substation bus adversely impacts transmission system performance

#### **Problem Statement:**

The loss of the Angola-Midway 138 kV Line results in the loss of approximately 38.5 MW and 7,400 customers at three delivery points.

Since 2017, the Angola-Midway 138 kV Line has experienced four unscheduled outages: two sustained and two momentary.





## ATSI Transmission Zone M-3 Process Angola – Midway 138 kV Line

Need Number: ATSI-2022-013

**Process Stage:** Solution Meeting – 08/16/2024

#### **Proposed Solution:**

Expand Hawthorne Station into a ring bus configuration

■ Build a four breaker 138 kV ring bus.

#### **Alternatives Considered:**

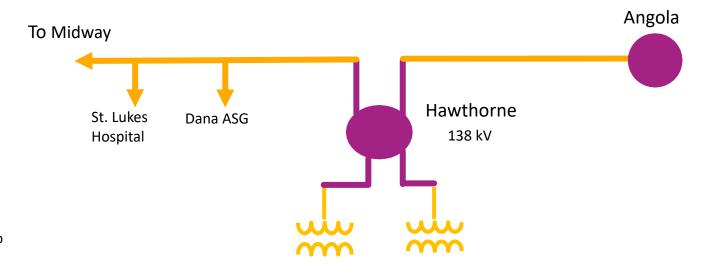
■ Expand Angola substation into a five (5) breaker 138 kV ring bus substation, build approximately 2.3 miles of new 138 kV circuit from Angola Substation to Angola tap on Angola — Eber — Vulcan 138 kV Line.

**Estimated Project Cost**: \$11.6M

**Projected In-Service:** 3/14/2028

Status: Conceptual

**Model:** 2023 RTEP model for 2028 Summer (50/50)



Legend		
500 kV		
345 kV		
138 kV		
69 kV		
34.5 kV		
23 kV		
New		

## **EXHIBIT 5**



In reply refer to: 2024-LUC-61299

September 9, 2025

Justin McKissick, MA, RPA Senior Archaeologist/Project Manager TRC Environmental Corporation 317 E Carson Street, Suite 113 Pittsburgh, PA 15219

Email: JMcKissick@trccompanies.com

RE: Section 106 Review: Hawthorne Substation Project, Toledo, Lucas County, Ohio

Dear Mr. McKissick:

This letter is in response to the correspondence received on August 12, 2025, regarding the above-referenced project in Lucas County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code (O.R.C.) and the Ohio Power Siting Board rules for siting this project. The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The SHPO previously reviewed and commented on this project on June 10, 2024. However, since that time the scope of the project has changed, which includes the increase of the Area of Potential Effect (APE) from 1.7-acres to 2.92-acres. This increase will include the demolition of a 1950s-era ranch style house. Based on information submitted, no historic properties, districts, or archaeological sites are located within the newly defined APE. After careful review, it is the SHPO's opinion that no cultural resource studies are warranted for the project. Furthermore, as proposed, the project will have no effect on historic properties. No further coordination is required for this project unless the scope of work changes again or archaeological remains are discovered during the course of the project. In such a situation, this office should be contacted. If you have any questions concerning this review, please contact me via email at <a href="mailto:sbiehl@ohiohistory.org">sbiehl@ohiohistory.org</a>. Thank you for your cooperation.

Sincerely,

Stephen M. Biehl, Project Reviews Manager-Archaeology

Resource Protection and Review State Historic Preservation Office

Stephen M. Biell

RPR Serial No. 1110339



In reply refer to: 2024-LUC-61299

June 10, 2024

Justin McKissick, MA, RPA Project Archaeologist/Field Director TRC Environmental Corporation 317 E Carson Street, Suite 113 Pittsburgh, PA 15219

Email: JMcKissick@trccompanies.com

RE: Section 106 Review: Hawthorne 138kV 4 Breaker Ring 16044605 Bus Project, Toledo, Lucas

County, Ohio

Dear Mr. McKissick:

This letter is in response to the correspondence received on May 14, 2024, regarding the above reference project in Lucas County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code (O.R.C.) and the Ohio Power Siting Board rules for siting this project. The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The proposed project consists of expansion of an existing substation, including the use of a possible laydown storage yard and a temporary access road through a paved parking lot. Based on information submitted by you, which included a Project Summary Form, no historic properties, districts, or archaeological sites are located within the direct Area of Potential Effect (APE), as defined by you. New infrastructure will not exceed existing infrastructure heights. Therefore, based on this information, it is the SHPO's opinion that no cultural resource studies are warranted for the project. Furthermore, as proposed, the project will have no effect on historic properties. No further coordination is required for this project unless the scope of work changes or archaeological remains are discovered during the course of the project. In such a situation, this office should be contacted as required by 36 CFR § 800.13. If you have any questions concerning this review, please contact either myself via email at <a href="mailto:sbiehl@ohiohistory.org">sbiehl@ohiohistory.org</a> or Ms. Joy Williams at <a href="mailto:jwilliams@ohiohistory.org">jwilliams@ohiohistory.org</a>. Thank you for your cooperation.

Sincerely,

Stephen M. Biehl, Project Reviews Coordinator (archaeology)

Resource Protection and Review State Historic Preservation Office

Stephen M. Biell

RPR Serial No. 1103159



### **EXHIBIT 6**

Mike DeWine, Governor Jim Tressel, Lt. Governor Mary Mertz, Director

Office of Real Estate & Land Management

Tara Paciorek - Chief 2045 Morse Road – E-2 Columbus, Ohio 43229-6693

September 8, 2025

Jenna Slabe TRC Companies, Inc. 1382 West 9th Street, Suite 400 Cleveland, Ohio 44113

Re: 25-1205\_Hawthorne Substation

**Project:** The proposed project involves expansion activities for the existing Hawthorne substation.

**Location:** The proposed project is located in Washington Township, Lucas County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state, or federal agency nor relieve the applicant of the obligation to comply with any local, state, or federal laws or regulations.

**Natural Heritage Database:** A review of the Ohio Natural Heritage Database indicates there are no records of state or federally listed plants or animals within one mile of the specified project area. Records searched date from 1980.

Please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area.

Fish and Wildlife: The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that Best Management Practices be utilized to minimize erosion and sedimentation.

The entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these species of bats predominately roost in trees behind loose,

exfoliating bark, in crevices and cavities, or in clusters of dead leaves on tree limbs. However, these species are also dependent on the forest structure surrounding roost trees. If trees are present within the project area, and trees must be cleared, the DOW recommends tree and/or tree limb clearing only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with a Diameter Breast Height (DBH) ≥ 20" if possible. If trees are present within the project area, and trees and/or tree limbs must be cleared during the summer months, the DOW recommends a mist net survey or acoustic survey be conducted from June 1 through August 15, prior to any clearing. Mist net and acoustic surveys should be conducted in accordance with the most recent version of the OHIO DIVISION OF WILDLIFE AND U.S. FISH AND WILDLIFE SERVICE (OH-FIELD OFFICE) JOINT GUIDANCE FOR BAT SURVEYS. If state-listed bats are documented, DOW recommends tree clearing only occur from October 1 through March 31. However, limited summer tree clearing may be acceptable after consultation with the DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

For every project, the DOW also recommends that a winter bat habitat assessment is conducted to determine if potential hibernacula are present within the project area. This is to limit possible disturbances that seasonal tree clearing and/or subsurface work (e.g., trenching, blasting, etc.) may cause to hibernating bats. Potential hibernacula include rocky outcroppings, caves, and underground mines. Direction on how to conduct winter habitat assessments can be found in the joint guidance linked above. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile permanent tree clearing buffer around the hibernaculum entrance. Limited summer or winter tree clearing may be acceptable after consultation with the DOW. If a habitat assessment for projects involving subsurface disturbance finds that a potential hibernaculum is present within 5 miles of the project area, please consult with Eileen Wyza for project recommendations. If no tree clearing or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

The project is within the range of the following listed mussel species.

#### Federally Endangered

rayed bean (Villosa fabalis) snuffbox (Epioblasma triquetra)

#### State Endangered

eastern pondmussel (Ligumia nasuta)

#### State Threatened

pondhorn (*Uniomerus tetralasmus*)

Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the following listed fish species.

#### State Endangered

cisco (Coregonus artedi)
lake sturgeon (Acipenser fulvescens)
western banded killifish (Fundulus diaphanus menona)

<u>State Threatened</u> greater redhorse (*Moxostoma valenciennesi*) American eel (*Anquilla rostrata*)

channel darter (Percina copelandi)

Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the Blanding's turtle (*Emydoidea blandingii*), a state threatened species. This species inhabits marshes, ponds, lakes, streams, wet meadows, and swampy forests. Although essentially aquatic, the Blanding's turtle will travel over land as it moves from one wetland to the next. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the spotted turtle (*Clemmys guttata*), a state threatened species. This species prefers fens, bogs and marshes, but also is known to inhabit wet prairies, meadows, pond edges, wet woods, and the shallow sluggish waters of small streams and ditches. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species. This secretive species prefers wet fields and meadows. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the blue-spotted salamander (*Ambystoma laterale*), a state endangered species. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the sandhill crane (*Antigone canadensis*), a state threatened species. Sandhill cranes are primarily a wetland-dependent species. On their wintering grounds, they will utilize agricultural fields; however, they roost in shallow, standing water or moist bottomlands. On breeding grounds, they require a rather large tract of wet meadow, shallow marsh, or bog for nesting. If grassland, prairie, or wetland habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 1 through August 31. If this habitat will not be impacted, this project is not likely to have an impact on this species.

Due to the potential for impacts to federally listed species, as well as to state-listed species, we recommend that this project be coordinated with the US Fish & Wildlife Service.

**Water Resources:** The Division of Water Resources has not conducted a project specific review and/or comments, however, the guidance provided below should be reviewed by the Environmental Review applicant for applicability on this project and subsequent compliance.

If the subject project is in a floodplain regulated by the Federal Emergency Management Agency (FEMA), the <u>local floodplain administrator</u> should be contacted concerning the possible need for any floodplain permits or approvals. The FEMA National Flood Hazard Layer (NHFL) Viewer <u>website</u> can be utilized to see if the project is in a FEMA regulated floodplain. If the project is not in a FEMA regulated floodplain, then no further action is required.

Ohio Revised Code (ORC) Section 1521.16 mandates that any owner of a property or a facility that has the capacity of withdrawing 100,000 gallons per day (gpd) of water from groundwater, surface water, or both must register with the Division of Water Resources' <u>Water Withdrawal Facilities Registration</u> (WWFR) <u>Program</u> and report their withdrawals annually.

Additional coordination may be required depending on the location of the withdrawal and consumptive use. Restrictions or permitting may be required for:

- New or increased consumptive use of water averaging 2 million gallons per day (mgd) within 30 days within the Ohio River basin.
- New or increased withdrawal and consumptive water use in the Lake Erie watershed averaging 1
  million gallons per day (mgd) or more in 90 days.
- New or increased water withdrawal directly from Lake Erie averaging 2.5 million gallons per day (mgd) or more in 90 days.
- Diversion or movement of water across the Ohio River and Lake Erie basin divide.

If the project does not involve activities that are subject to water withdrawal regulatory requirements as described above, then no further action is required. For more information, visit the <a href="Water Inventory & Planning website">Water Inventory & Planning website</a>.

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew (Environmental Services Administrator) at <a href="mailto:mike.pettegrew@dnr.ohio.gov">mike.pettegrew@dnr.ohio.gov</a> if you have questions about these comments or need additional information.

**Expiration:** ODNR Environmental Reviews are typically valid for 2 years from the issuance date. If the scope of work, project area, construction limits, and/or anticipated impacts to natural resources have changed significantly from the original project submittal, then a new Environmental Review request should be submitted.



## Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate
Tara Paciorek, Chief
2045 Morse Road – Bldg. E-2
Columbus, Ohio 43229

Phone: (614) 265-6661 Fax: (614) 267-4764

May 28, 2024

Jenna Slabe TRC Companies, Inc. 1382 West 9th Street, Suite 400 Cleveland, Ohio 44113

Re: 24-0652 Hawthorne 138kV 4 Breaker Ring Bus

**Project:** The proposed project involves work and expansion activities for the existing Hawthorne substation.

Location: The proposed project is located in Washington Township, Lucas County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state, or federal agency nor relieve the applicant of the obligation to comply with any local, state, or federal laws or regulations.

**Natural Heritage Database:** A review of the Ohio Natural Heritage Database indicates there are no records of state or federally listed plants or animals within one mile of the specified project area. Records searched date from 1980.

Please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area.

**Fish and Wildlife:** The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that Best Management Practices be utilized to minimize erosion and sedimentation.

The entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these species of bats predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure

surrounding roost trees. If trees are present within the project area, and trees must be cut, the DOW recommends cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH ≥ 20 if possible. If trees are present within the project area, and trees must be cut during the summer months, the DOW recommends a mist net survey or acoustic survey be conducted from June 1 through August 15, prior to any cutting. Mist net and acoustic surveys should be conducted in accordance with the most recent version of the "OHIO DIVISION OF WILDLIFE GUIDANCE FOR BAT SURVEYS AND TREE CLEARING". If state listed bats are documented, DOW recommends cutting only occur from October 1 through March 31. However, limited summer tree cutting may be acceptable after consultation with the DOW (contact Eileen Wyza at Eileen. Wyza@dnr.ohio.gov).

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "RANGE-WIDE INDIANA BAT & NORTHERN LONG-EARED BAT SURVEY GUIDELINES." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Eileen Wyza for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

The project is within the range of the following listed mussel species. Federally Endangered rayed bean (*Villosa fabalis*) snuffbox (*Epioblasma triquetra*)

<u>State Endangered</u> eastern pondmussel (*Ligumia nasuta*)

<u>State Threatened</u> pondhorn (*Uniomerus tetralasmus*)

Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size, this project is not likely to impact these species.

The project is within the range of the of the following listed fish species. State Endangered

cisco (Coregonus artedi) lake sturgeon (Acipenser fulvescens) western banded killifish (Fundulus diaphanus menona)

#### State Threatened

American eel (*Anguilla rostrata*) channel darter (*Percina copelandi*) greater redhorse (*Moxostoma valenciennesi*)

The DOW recommends no in-water work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. If no in-water work is proposed in a perennial stream, this project is not likely to impact these or other aquatic species.

The project is within the range of the Blanding's turtle (*Emydoidea blandingii*), a state threatened species. This species inhabits marshes, ponds, lakes, streams, wet meadows, and swampy forests. Although essentially aquatic, the Blanding's turtle will travel over land as it moves from one wetland to the next. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the spotted turtle (*Clemmys guttata*), a state threatened species. This species prefers fens, bogs, and marshes, but also is known to inhabit wet prairies, meadows, pond edges, wet woods, and the shallow sluggish waters of small streams and ditches. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species. This secretive species prefers wet fields and meadows. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the blue-spotted salamander (*Ambystoma laterale*), a state endangered species. Due to the location, the type of habitat within the project area, and the type of work proposed, this project is not likely to impact this species.

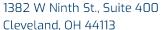
Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the US Fish & Wildlife Service.

Water Resources: The Division of Water Resources has the following comment.

The <u>local floodplain administrator</u> should be contacted concerning the possible need for any floodplain permits or approvals for this project.

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew at <a href="mike.pettegrew@dnr.ohio.gov">mike.pettegrew@dnr.ohio.gov</a> if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator







April 24, 2024

Ohio Department of Natural Resources Office of Real Estate & Land Management 2045 Morse Road, Building E-2 Columbus, OH 43229-6693

Project Submittal for an Environmental Review of the Hawthorne 138kV 4 Breaker Ring Bus Project located in the City of Toledo, Lucas County, Ohio. (TRC Project No. 429847.0078.0000)

To Whom It May Concern,

On behalf of FirstEnergy Corporation (FirstEnergy), TRC Companies, Inc. (TRC) is requesting an Environmental Review of the proposed Hawthorne 138kV 4 Breaker Ring Bus Project (Project) located in the City of Toledo, Lucas County, Ohio (**Figure 1:** Site Location Map).

#### Project Location (latitude/longitude):

Centroid: 41.593871, -83.669156

County: Lucas County

**Project Description:** The Project involves work and expansion activities for the existing Hawthorne substation. The proposed Project Study Area is approximately 1.70 acres in size, located in the City of Toledo, Lucas County, Ohio. As depicted in the attached mapping, the proposed Project Study Area (**Figure 2:** Aerial Map) occurs within an existing, maintained utility right-of-way (ROW) and substation, surrounded by commercial land use and forested habitat. No tree clearing is anticipated within the Project Study Area.

**On-site Habitat Description:** Based on field surveys, TRC has identified the following habitats within the Project Study Area:

Land Use: Existing, maintained utility ROW and substation, surrounded by commercial land use and forested habitat.

<u>Wetlands:</u> On November 16, 2023, TRC performed a surface water delineation within the Project Study Area. No wetland resources were identified or delineated within the Project Study Area (**Figure 3:** Delineated Resources Map).

<u>Streams</u>: On November 16, 2023, TRC performed a surface water delineation within the Project Study Area. No streams or waterbodies were identified or delineated within the Project Study Area (**Figure 3**: Delineated Resources Map).

<u>Forested Area:</u> The proposed Project Study Area contains a minor amount of forested habitat on the edge of the utility ROW. No tree clearing is anticipated within the Project Study Area.

Uplands: The proposed Project Study Area includes upland habitat within an existing utility ROW and substation.

<u>Floodplains:</u> According to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map panels, 39095C0231E (eff. 8/16/2011) and 39095C0233E (eff. 8/16/2011), the proposed Project is not located within a FEMA-mapped 100-Year Flood Zone.

**Potential Disturbance:** It is anticipated that due to the nature of the Project, jurisdictional resources will not be impacted by the proposed Project activities. The most current Best Management Practices will be followed during construction and disturbed areas will be restored to pre-construction conditions as much as applicable. No tree clearing is anticipated within the Project Study Area. However, if minor tree clearing is needed as a result of this Project, it will take place within the USFWS recommended tree clearing dates (October 1 – March 31).

Please do not hesitate to contact me at (330) 998-0481 or via email at <u>JSlabe@TRCcompanies.com</u> if you have any questions or require additional information.

Regards,

Jenna Slabe Ecologist

Attachments:

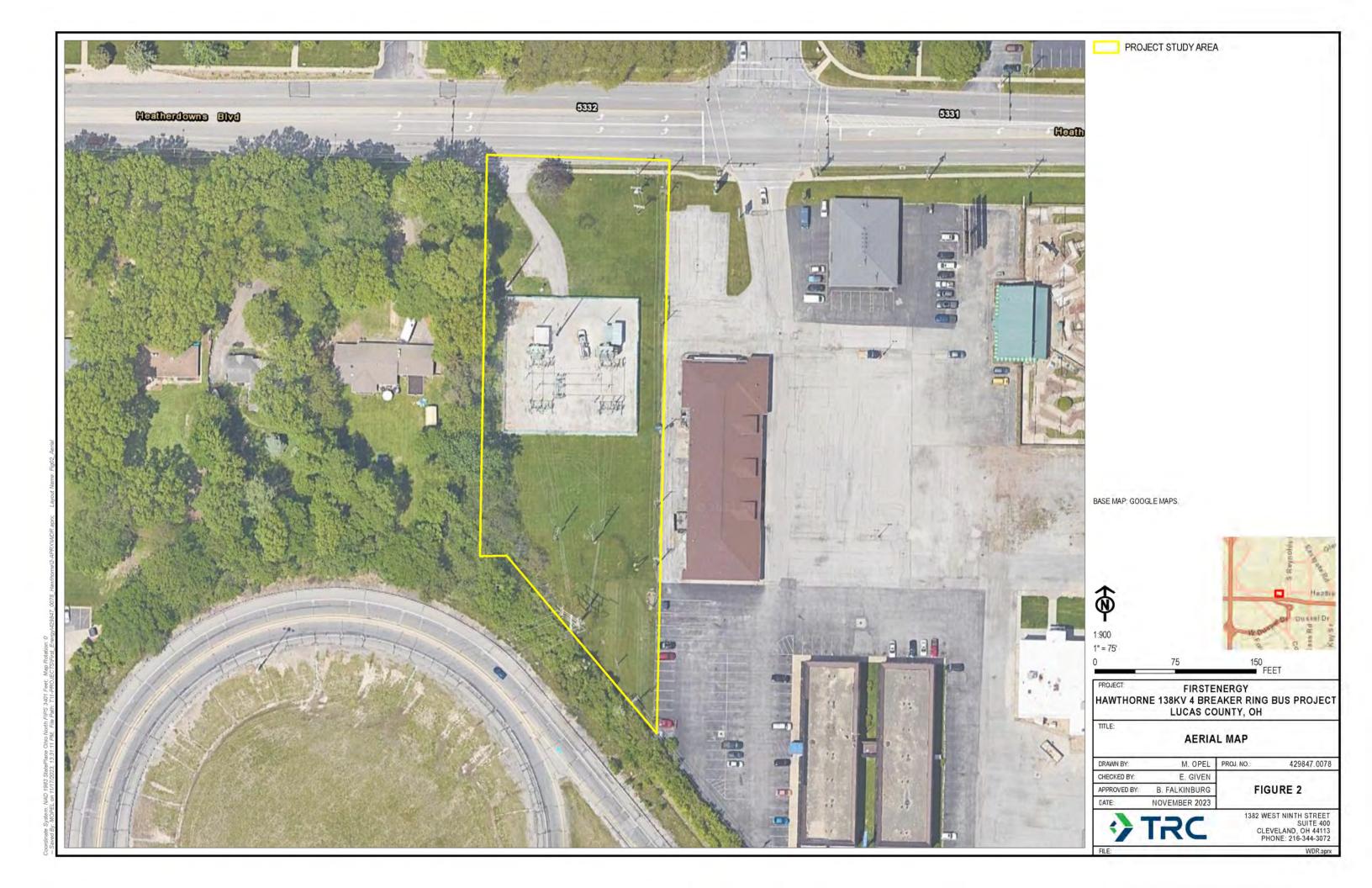
Figure 1: Site Location Map

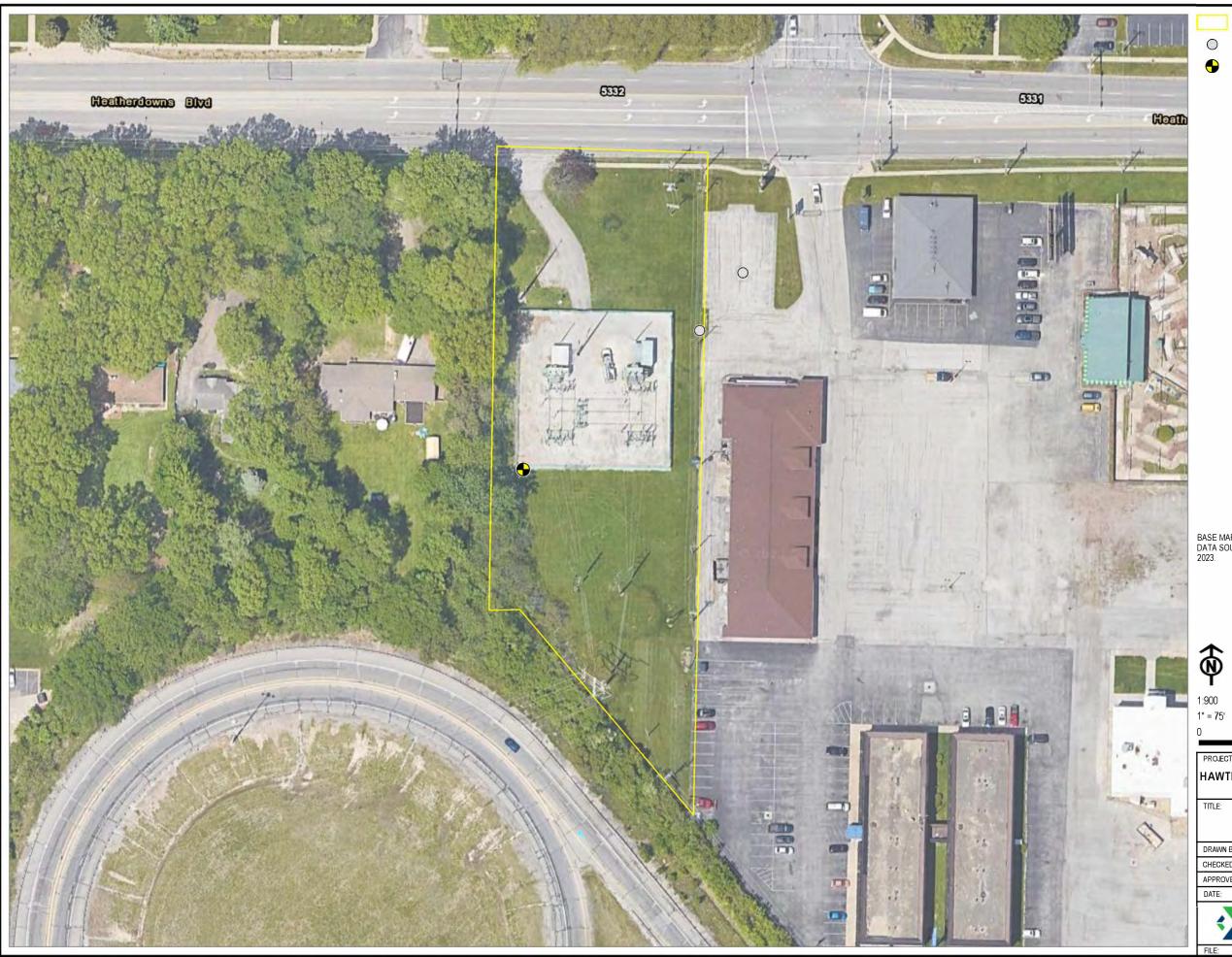
Figure 2: Aerial Map

Figure 3: Delineated Resources Map

Photographic Record







PROJECT STUDY AREA

CULVERT

RULE OUT POINT

BASE MAP; GOOGLE MAPS.
DATA SOURCES; TRC WETLAND DELINEATION COMPLETED NOVEMBER 16, 2023.



= 75'

75 150 FEET

PROJECT: FIRSTENERGY
HAWTHORNE 138KV 4 BREAKER RING BUS PROJECT
LUCAS COUNTY, OH

DELINEATED RESOURCES MAP

DRAWN BY:	M. OPEL	PROJ. NO.:	429847 0078
CHECKED BY:	E. GIVEN		

APPROVED BY: B. FALKINBURG

DATE: NOVEMBER 2023

FIGURE 3

1382 WEST NINTH STREET SUITE 400 CLEVELAND, OH 44113 PHONE; 216-344-3072

WDR.aprx





Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

429847.0078.0000

#### Photo No. 1.

Photo Date: 11/16/2023

#### Description:

Photo of the northern extent of the Project Study Area near Heatherdowns Blvd, facing north.



#### Photo No. 2.

Photo Date: 11/16/2023

#### Description:

Photo of the northern extent of the Project Study Area, facing east.







Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

429847.0078.0000

#### Photo No. 3.

Photo Date: 11/16/2023

### Description:

Photo of the northern extent of the Project Study Area and existing substation, facing south.



#### Photo No. 4.

Photo Date: 11/16/2023

#### Description:

Photo of the northern extent of the Project Study Area, facing west.







Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

429847.0078.0000

#### Photo No. 5.

Photo Date: 11/16/2023

### Description:

Photo of the southern extent of the Project Study Area and existing substation, facing north.



#### Photo No. 6.

Photo Date: 11/16/2023

#### Description:

Photo of the southern extent of the Project Study Area, facing east.







Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

429847.0078.0000

#### Photo No. 7.

Photo Date: 11/16/2023

#### Description:

Photo of the southern extent of the Project Study Area, facing south.



#### Photo No. 8.

Photo Date: 11/16/2023

## Description:

Photo of the southern extent of the Project Study Area, facing west.





From: Eileen.Wyza@dnr.ohio.gov

To: Slabe, Jenna

Falkinburg, Brad; Molnar, Maggie Cc:

Subject: [EXTERNAL] RE: Desktop Hibernacula Assessment: FirstEnergy"s Hawthorne Substation Project

Date: Tuesday, September 9, 2025 8:27:30 AM

Attachments: image002.png

image004.png image005.png image006.png

image007.png ane008.pnc image001.png

This is an External email. Do not click links or open attachments unless you validate the sender and know the content is

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Hello Jenna,

Per review of the desktop survey provided for the FirstEnergy's Hawthorne Substation Project, the Ohio Division of Wildlife concurs with your assessment that no caves, cliffs, or mine openings occur in the project area. Therefore, the project is not likely to impact hibernating bats.

Should any reported conditions change before or during construction, please contact me for additional guidance.

Thank you,

Eileen Wyza, Ph.D.

(she/her/hers) Wildlife Biologist Ohio Division of Wildlife Phone: 614-265-6764

Email: Eileen.Wyza@dnr.ohio.gov

Support Ohio's wildlife. Buy a license at wildohio.gov.







This message is intended solely for the addressee(s). Should you receive this message by mistake, we would be grateful if you informed us that the message has been sent to you in error. In this case, we also ask that you delete this message and any attachments from your mailbox, and do not forward it or any part of it to anyone else. Thank you for your cooperation and understanding.

Please consider the environment before printing this email.

From: Slabe, Jenna <JSlabe@trccompanies.com> Sent: Monday, September 8, 2025 4:31 PM To: Wyza, Eileen <Eileen.Wyza@dnr.ohio.gov>

Cc: Falkinburg, Brad <BFalkinburg@trccompanies.com>; Molnar, Maggie <MMolnar@trccompanies.com>

Subject: Desktop Hibernacula Assessment: FirstEnergy's Hawthorne Substation Project

Eileen.

In response to ODNR's DOW recommendations (attached), TRC completed a desktop hibernacula assessment to determine if potential hibernaculum is present within FirstEnergy's proposed Hawthorne Substation Project located in the City of Toledo, Lucas County, Ohio.

Please let us know if you have any questions on the provided desktop assessment or require any additional information, thank you!

Jenna Slabe, PWS

**Ecologist** 



**CAUTION:** This is an external email and may not be safe. If the email looks suspicious, please do not click links or open attachments and forward the email to <a href="mailto:csc@ohio.gov">csc@ohio.gov</a> or click the Phish Alert Button if available.

## **EXHIBIT 7**

## **United States Department of the Interior**



#### FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / FAX (614) 416-8994



May 15, 2024

Project Code: 2024-0080925

#### Dear Jenna Slabe:

The U.S. Fish and Wildlife Service (Service) received your recent correspondence requesting information about the subject proposal. We offer the following comments and recommendations to assist you in minimizing and avoiding adverse effects to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

<u>Federally Threatened and Endangered Species</u>: Due to the project, type, size, and location, we do not anticipate adverse effects to federally endangered, threatened, or proposed species or proposed or designated critical habitat. If there are any project modifications during the term of this action, or additional information for listed or proposed species or their critical habitat becomes available, or if new information reveals effects of the action that were not previously considered, then please contact us for additional project review.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or ohio@fws.gov.

Sincerely,

Erin Knoll

Field Office Supervisor



April 24, 2024

Patrice Ashfield Field Office Supervisor U.S. Fish and Wildlife Service 4625 Morse Road, Suite 104 Columbus, OH, 43230

Request for Submittal Review (IPaC Project Code: 2024-0080925) regarding the Hawthorne 138kV 4 Breaker Ring Bus Project located in the City of Toledo, Lucas County, Ohio. (TRC Project No. 429847.0078.0000)

Dear Ms. Ashfield,

On behalf of FirstEnergy Corporation (FirstEnergy), TRC Companies, Inc. (TRC) is requesting Technical Assistance regarding the proposed Hawthorne 138kV 4 Breaker Ring Bus Project (Project) located in the City of Toledo, Lucas County, Ohio (**Figure 1**: Site Location Map). We are requesting information regarding Threatened and Endangered (T&E) species, or their habitats that may be impacted by the proposed Project, as well as information regarding, known locations of any known bald eagle nests, bat capture records, and bat hibernacula within a 5-mile radius of the proposed Project.

#### Project Location (latitude/longitude):

Centroid: 41.593871, -83.669156

County: Lucas County

**Project Description:** The Project involves work and expansion activities for the existing Hawthorne substation. The proposed Project Study Area is approximately 1.70 acres in size, located in the City of Toledo, Lucas County, Ohio. As depicted in the attached mapping, the proposed Project Study Area (**Figure 2:** Aerial Map) occurs within an existing, maintained utility right-of-way (ROW) and substation, surrounded by commercial land use and forested habitat. No tree clearing is anticipated within the Project Study Area.

On-site Habitat Description: Based on field surveys, TRC has identified the following habitats within the Project Study Area:

Land Use: Existing, maintained utility ROW and substation, surrounded by commercial land use and forested habitat.

<u>Wetlands:</u> On November 16, 2023, TRC performed a surface water delineation within the Project Study Area. No wetland resources were identified or delineated within the Project Study Area (**Figure 3:** Delineated Resources Map).

<u>Streams</u>: On November 16, 2023, TRC performed a surface water delineation within the Project Study Area. No streams or waterbodies were identified or delineated within the Project Study Area (**Figure 3**: Delineated Resources Map).

<u>Forested Area:</u> The proposed Project Study Area contains a minor amount of forested habitat on the edge of the utility ROW. No tree clearing is anticipated within the Project Study Area.

<u>Uplands:</u> The proposed Project Study Area includes upland habitat within an existing utility ROW and substation.

<u>Floodplains:</u> According to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map panels, 39095C0231E (eff. 8/16/2011) and 39095C0233E (eff. 8/16/2011), the proposed Project is not located within a FEMA-mapped 100-Year Flood Zone.

**Potential Disturbance:** It is anticipated that due to the nature of the Project, jurisdictional resources will not be impacted by the proposed Project activities. The most current Best Management Practices will be followed during construction and disturbed areas will be restored to pre-construction conditions as much as applicable. No tree clearing is anticipated within the Project Study Area. However, if minor tree clearing is needed as a result of this Project, it will take place within the USFWS recommended tree clearing dates (October 1 – March 31).

Please do not hesitate to contact me at (330) 998-0481 or via email at <u>JSlabe@TRCcompanies.com</u> if you have any questions or require additional information.

Regards,

Jenna Slabe Ecologist

Attachments:

Figure 1: Site Location Map

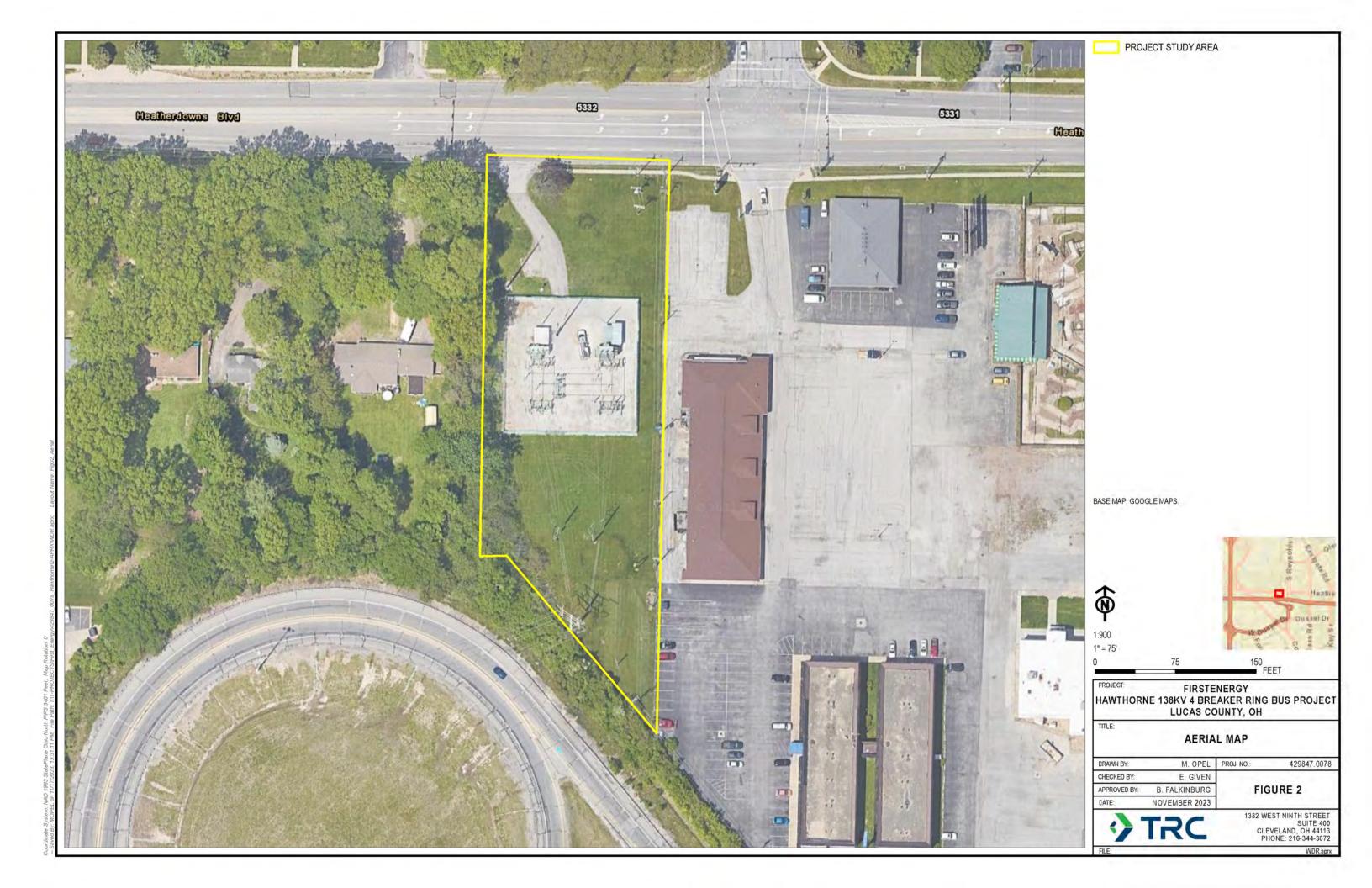
Figure 2: Aerial Map

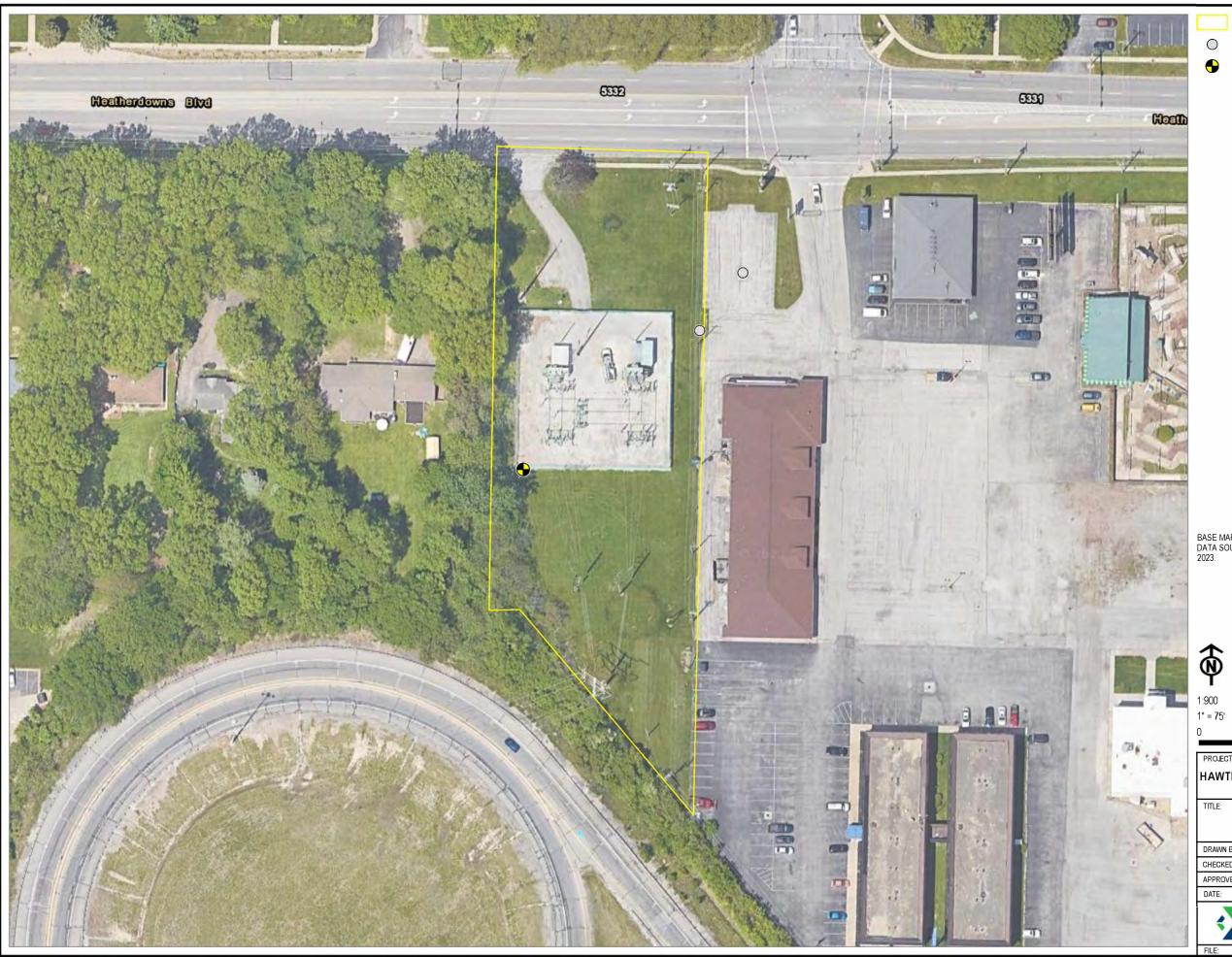
Figure 3: Delineated Resources Map

Photographic Record

USFWS IPaC Official Species List







PROJECT STUDY AREA

CULVERT

RULE OUT POINT

BASE MAP; GOOGLE MAPS.
DATA SOURCES; TRC WETLAND DELINEATION COMPLETED NOVEMBER 16, 2023.



= 75'

75 150 FEET

PROJECT: FIRSTENERGY
HAWTHORNE 138KV 4 BREAKER RING BUS PROJECT
LUCAS COUNTY, OH

DELINEATED RESOURCES MAP

DRAWN BY:	M. OPEL	PROJ. NO.:	429847 0078
CHECKED BY:	E. GIVEN		

APPROVED BY: B. FALKINBURG

DATE: NOVEMBER 2023

FIGURE 3

1382 WEST NINTH STREET SUITE 400 CLEVELAND, OH 44113 PHONE; 216-344-3072

WDR.aprx





Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

429847.0078.0000

#### Photo No. 1.

Photo Date: 11/16/2023

#### Description:

Photo of the northern extent of the Project Study Area near Heatherdowns Blvd, facing north.



#### Photo No. 2.

Photo Date: 11/16/2023

#### Description:

Photo of the northern extent of the Project Study Area, facing east.







Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

429847.0078.0000

#### Photo No. 3.

Photo Date: 11/16/2023

### Description:

Photo of the northern extent of the Project Study Area and existing substation, facing south.



#### Photo No. 4.

Photo Date: 11/16/2023

#### Description:

Photo of the northern extent of the Project Study Area, facing west.







Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

429847.0078.0000

#### Photo No. 5.

Photo Date: 11/16/2023

### Description:

Photo of the southern extent of the Project Study Area and existing substation, facing north.



#### Photo No. 6.

Photo Date: 11/16/2023

#### Description:

Photo of the southern extent of the Project Study Area, facing east.







Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

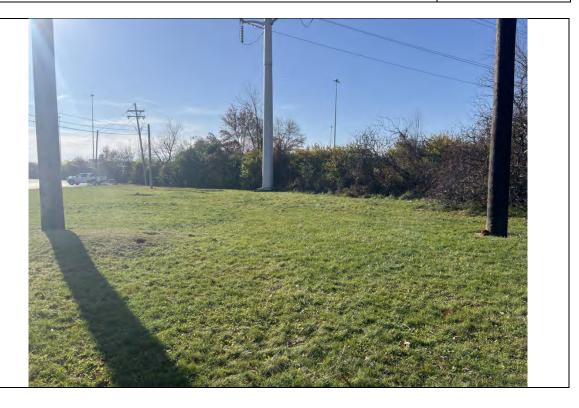
429847.0078.0000

#### Photo No. 7.

Photo Date: 11/16/2023

#### Description:

Photo of the southern extent of the Project Study Area, facing south.



#### Photo No. 8.

Photo Date: 11/16/2023

## Description:

Photo of the southern extent of the Project Study Area, facing west.





## United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

Ohio Ecological Services Field Office 4625 Morse Road, Suite 104 Columbus, OH 43230-8355 Phone: (614) 416-8993 Fax: (614) 416-8994

In Reply Refer To: 04/23/2024 19:04:17 UTC

Project Code: 2024-0080925

Project Name: Hawthorne 138kV 4 Breaker Ring Bus Project

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

#### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

Project code: 2024-0080925

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

**Migratory Birds**: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/whatwe-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

### Attachment(s):

Official Species List

## **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Ohio Ecological Services Field Office** 4625 Morse Road, Suite 104 Columbus, OH 43230-8355 (614) 416-8993

## **PROJECT SUMMARY**

Project Code: 2024-0080925

Project Name: Hawthorne 138kV 4 Breaker Ring Bus Project

Project Type: Operations and Maintenance - Electric Power Transmission and

Distribution Facilities

Project Description: The Project involves work and expansion activities within the existing

Hawthorne substation. The proposed Project Study Area is approximately 1.70 acres in size, located in the City of Toledo, Lucas County, Ohio.

#### **Project Location:**

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@41.5938189,-83.66916196365288,14z">https://www.google.com/maps/@41.5938189,-83.66916196365288,14z</a>



Counties: Lucas County, Ohio

## **ENDANGERED SPECIES ACT SPECIES**

Project code: 2024-0080925

There is a total of 9 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2024-0080925 04/23/2024 19:04:17 UTC

**MAMMALS** 

NAME **STATUS** 

Indiana Bat *Myotis sodalis* 

Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

Northern Long-eared Bat *Myotis septentrionalis* 

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

Endangered

**Proposed** 

**Endangered** 

Tricolored Bat Perimyotis subflavus

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

• This species only needs to be considered if the project includes wind turbine operations.

Species profile: https://ecos.fws.gov/ecp/species/10515

**BIRDS** 

NAME **STATUS** 

Rufa Red Knot Calidris canutus rufa

There is **proposed** critical habitat for this species.

Species profile: https://ecos.fws.gov/ecp/species/1864

Whooping Crane *Grus americana* 

Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC,

NM, OH, SC, TN, UT, VA, WI, WV, western half of WY) No critical habitat has been designated for this species.

Species profile: <a href="https://ecos.fws.gov/ecp/species/758">https://ecos.fws.gov/ecp/species/758</a>

Experimental

Population,

Threatened

Non-Essential

**CLAMS** 

**NAME STATUS** 

Rayed Bean Villosa fabalis

Endangered

Endangered

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5862

**INSECTS** 

NAME **STATUS** 

Karner Blue Butterfly Lycaeides melissa samuelis

There is **proposed** critical habitat for this species.

Species profile: <a href="https://ecos.fws.gov/ecp/species/6656">https://ecos.fws.gov/ecp/species/6656</a>

Monarch Butterfly Danaus plexippus

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/9743

FLOWERING PLANTS

Project code: 2024-0080925 04/23/2024 19:04:17 UTC

NAME

#### Eastern Prairie Fringed Orchid Platanthera leucophaea

Threatened

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/601">https://ecos.fws.gov/ecp/species/601</a>

## **CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

Project code: 2024-0080925 04/23/2024 19:04:17 UTC

## **IPAC USER CONTACT INFORMATION**

Agency: Private Entity
Name: Jenna Slabe

Address: 1382 West 9th Street Suite 400

City: Cleveland

State: OH Zip: 44113

Email jslabe@trccompanies.com

Phone: 3309980481

## **EXHIBIT 8**



1382 West Ninth St. Suite 400 Cleveland, OH 44113 T 216.344.3072 TRCcompanies.com

August 8, 2025

Mr. Auggie Ruggiero FirstEnergy Corporation 341 White Pond Drive Akron, OH 44320

Reference: Technical Memorandum for the Surface Water Delineation of the Hawthorne Substation

Project located in the City of Toledo, Lucas County, Ohio.

(TRC Project No. 664674.0000 Phase 4)

Dear Mr. Ruggiero:

On behalf of FirstEnergy Corporation, TRC Environmental Corporation (TRC) conducted a surface water delineation for the Hawthorne Substation Project (Project). The Project is located in the City of Toledo, Lucas County, Ohio and is 2.92 acres in size (**Attachment A, Figure 1 and 2**). The Project Study Area is located at the following approximate centroid coordinates: 41.594052, -83.669446. This Project involves work and expansion activities for the existing Hawthorne substation.

Delineations were conducted by qualified wetland scientists on November 16, 2023, and July 29, 2025, in accordance with the United States Army Corps of Engineers (USACE) parameters. The objective was to evaluate and delineate potential surface water resources within the Project Study Area, such that the resources could be considered during each phase of the Project. Prior to the site visit, TRC reviewed available secondary source information such as the National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), United States Geological Survey (USGS) topographic maps, County Soil Survey maps, and aerial imagery of the Project Study Area to use in addition to field investigations.

The Project Study Area is shown on the attached map (**Attachment A, Figure 1**), which was derived from the USGS Maumee, Ohio 7.5-minute quadrangle topographic map. Soil mapped within the Project Study Area includes hydric, non-hydric and non-hydric with hydric inclusions soils (**Attachment A, Figure 3**). The proposed Project Study Area does not include any mapped NHD or NWI features (**Attachment A, Figure 4**). According to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map panels, 39095C0231E (eff. 8/16/2011) and 39095C0233E (eff. 8/16/2011), the proposed Project is not located within a FEMA mapped 100-Year Flood Zone. During the field investigation, land use within the Project Study Area was observed to be an existing, maintained utility right-of-way (ROW) and substation, and residential property, surrounded by minor upland forested habitat. See attached mapping in **Attachment A** and the Photographic Record in **Attachment B** for further details of the Project Study Area.

During the field investigations, no wetlands or surface waters were delineated or identified within the Project Study Area. To verify the absence of wetlands within the Project Study Area, upland data points (ROP-EKG-1 and ROP-JMS-1) were collected and are shown on **Figure 5** in **Attachment A**. Data for ROP-EKG-1 and ROP-JMS-1 were recorded on the USACE Wetland Determination Data Form – Northcentral and Northeast Region. The Wetland Determination Data Forms are provided in **Attachment C**.

This Technical Memorandum represents the conditions within the Project Study Area identified herein, as of the inspection dates. Should you require any additional information or have any questions concerning this letter, please feel free to contact me at (440) 666-2890 or by email at <a href="mailto:BFalkinburg@TRCCompanies.com">BFalkinburg@TRCCompanies.com</a>.



Kind Regards,

Brown Falkily

Brad M. Falkinburg, PWS Ecological Office Practice Leader

cc: Maggie Molnar, PWS - TRC

#### **Attachments**

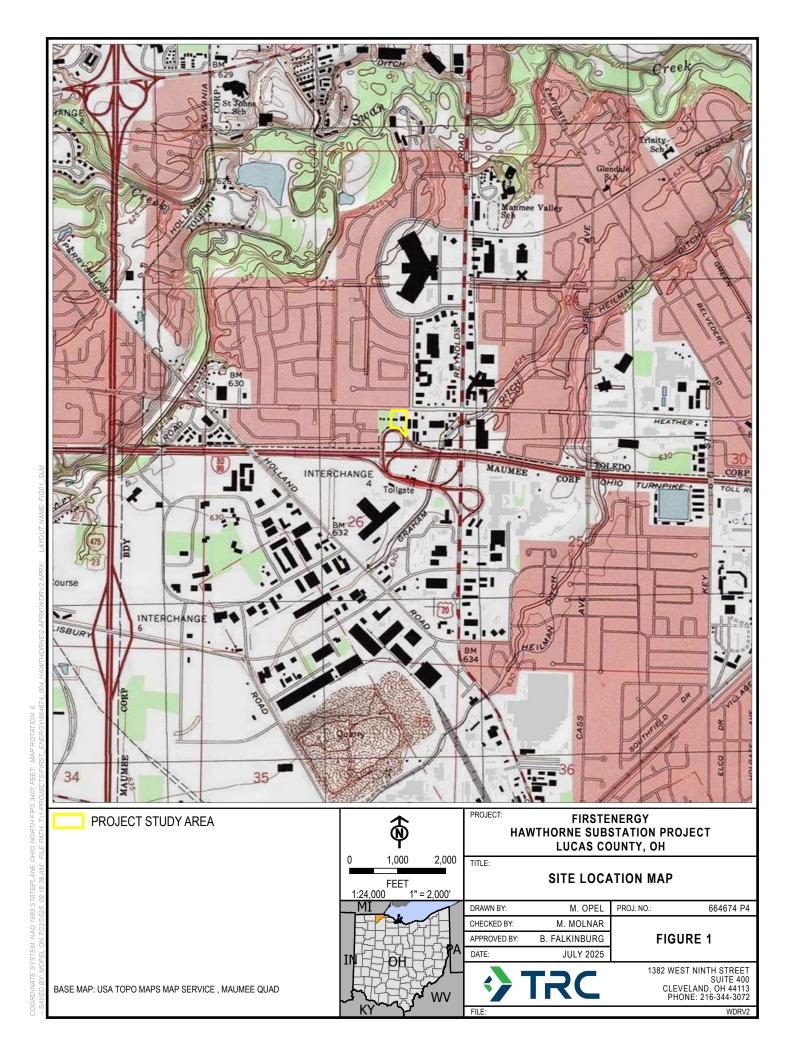
Attachment A: Figures

Attachment B: Photographic Record

Attachment C: Data Forms

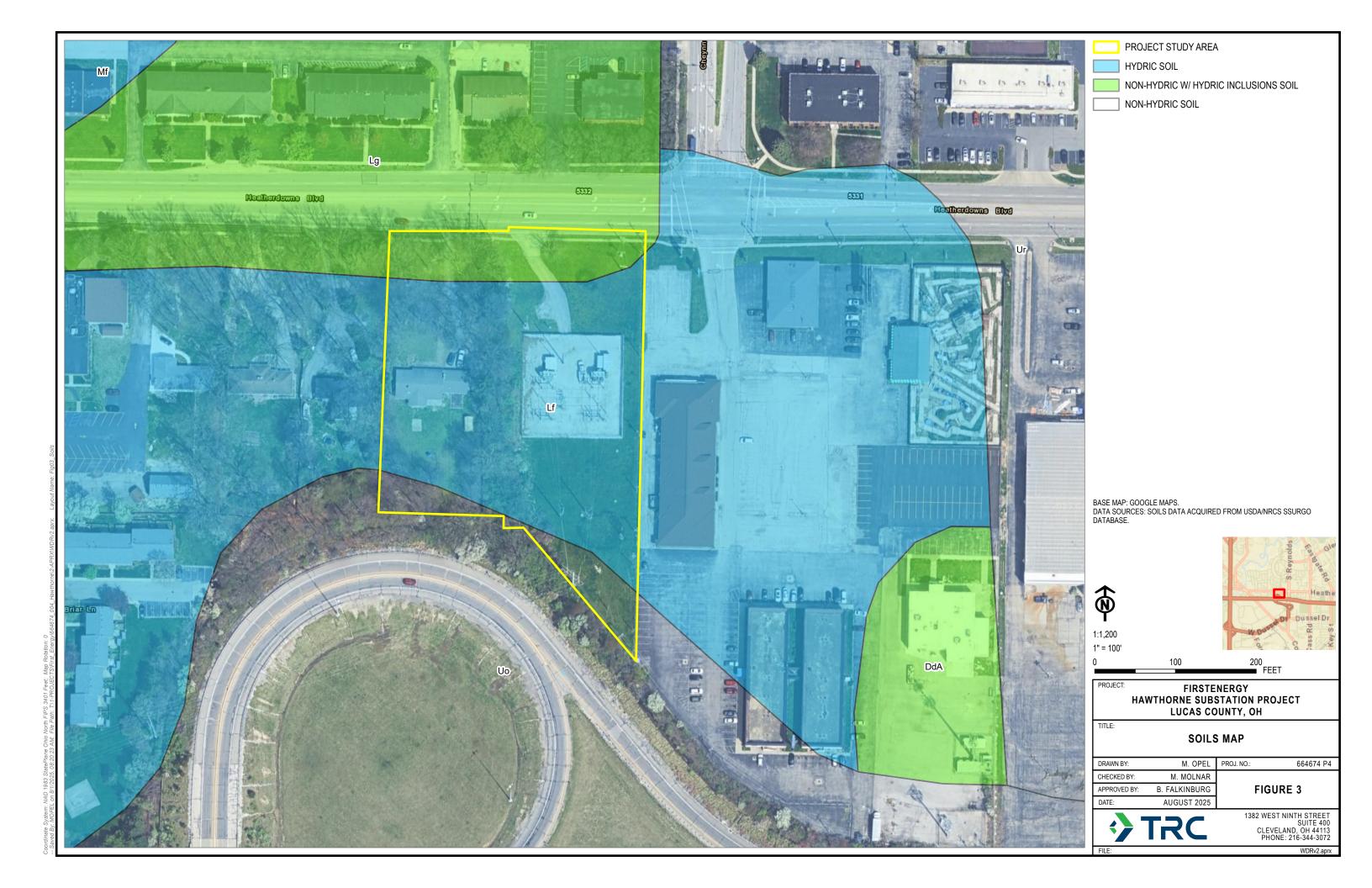


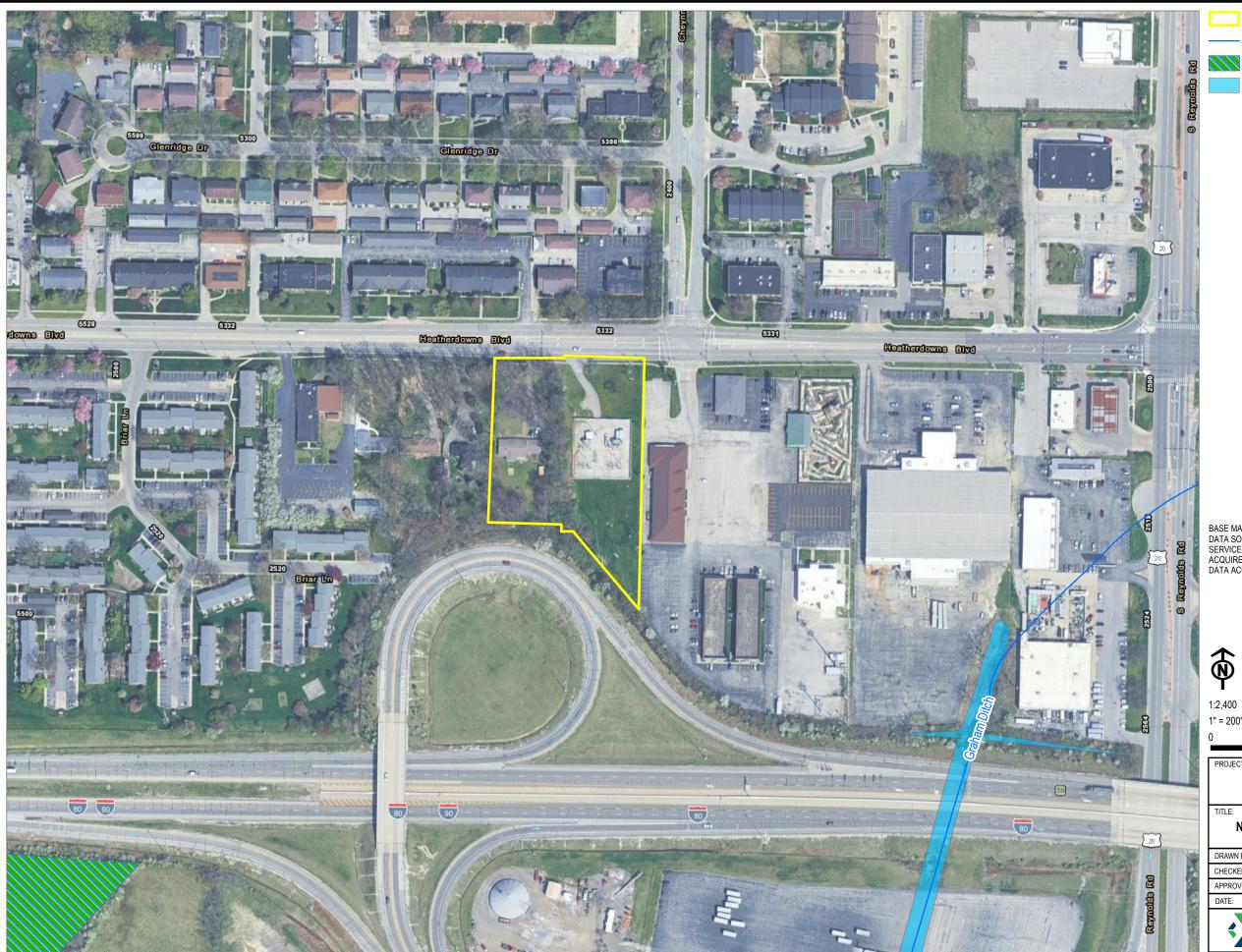
# **ATTACHMENT A – Figures**





1083 Ctatablana Obio North EIDS 3401 East. Man Datation: 0





PROJECT STUDY AREA

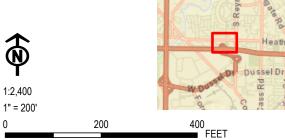
NATIONAL HYDROGRAPHY DATASET (NHD) STREAM

NATIONAL WETLANDS INVENTORY (NWI) FEATURE

100-YEAR FLOOD ZONE

BASE MAP: GOOGLE MAPS.

DATA SOURCES: WETLAND DATA ACQUIRED FROM U.S. FISH & WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY (NWI). STREAM DATA ACQUIRED FROM USGS, NATIONAL HYDROGRAPHY DATASET (NHD). FLOOD DATA ACQUIRED FROM FEMA, NATIONAL FLOOD HAZARD LAYER (NFHL).



FIRSTENERGY

**HAWTHORNE SUBSTATION PROJECT** LUCAS COUNTY, OH

NHD, NWI AND FEMA FLOODPLAIN MAP

664674 P4	PROJ. NO.:	M. OPEL	DRAWN BY:
		M. MOLNAR	CHECKED BY:
IGURE 4		B. FALKINBURG	APPROVED BY:
		AUGUST 2025	DATE:



1382 WEST NINTH STREET SUITE 400 CLEVELAND, OH 44113 PHONE: 216-344-3072



PROJECT STUDY AREA

CULVERT

UPLAND DATA POINT

BASE MAP: GOOGLE MAPS.
DATA SOURCES: TRC WETLAND DELINEATION COMPLETED NOVEMBER 16, 2023 & JULY 30, 2025.



150 FEET FIRSTENERGY
HAWTHORNE SUBSTATION PROJECT
LUCAS COUNTY, OH

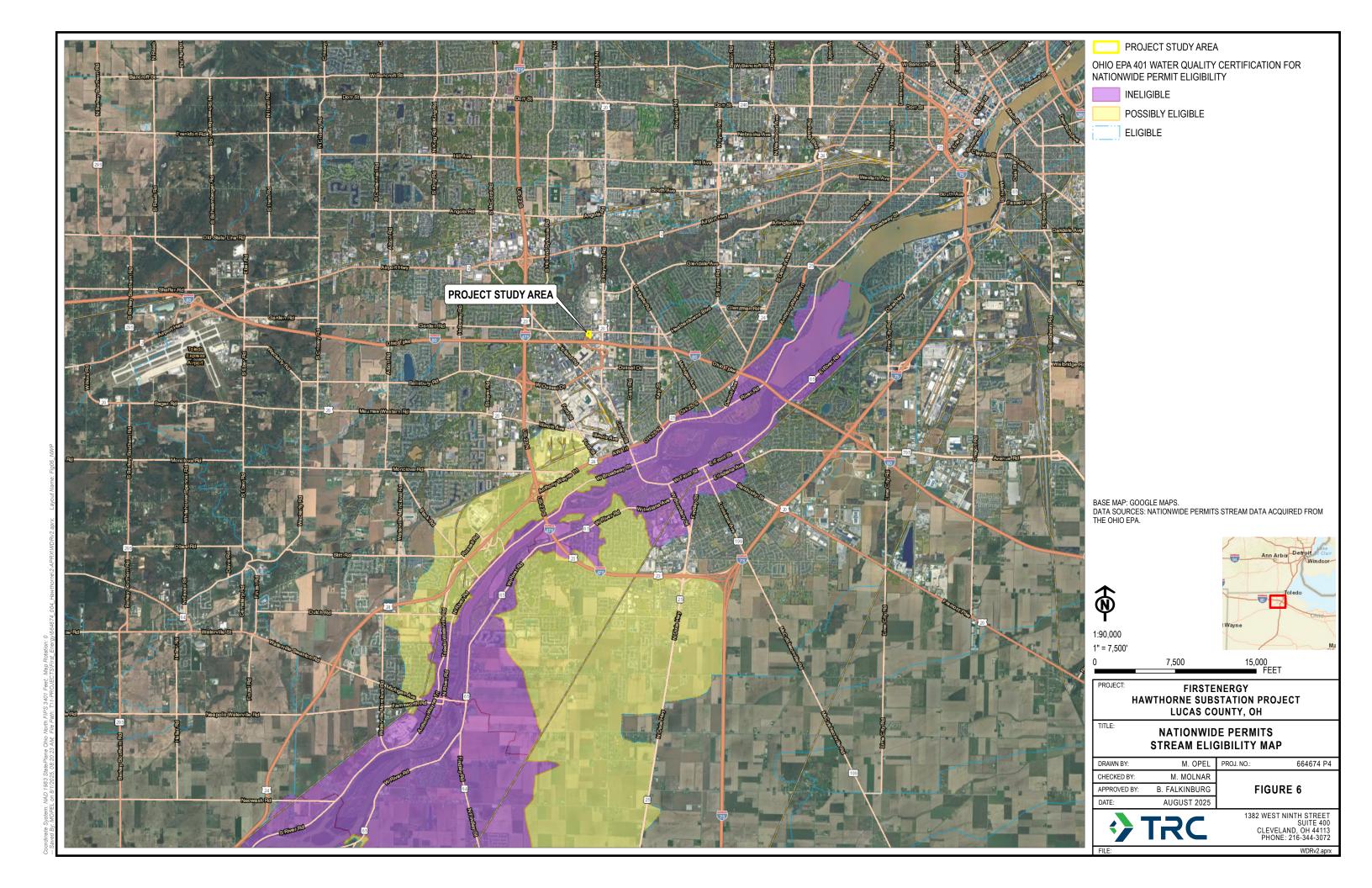
**DELINEATED RESOURCES MAP** 

DRAWIN BT.	W. OFEL	PROJ. INC
CHECKED BY:	M. MOLNAR	
APPROVED BY:	B. FALKINBURG	
DATE:	JULY 2025	

FIGURE 5

664674 P4

1382 WEST NINTH STREET SUITE 400 CLEVELAND, OH 44113 PHONE: 216-344-3072





# **ATTACHMENT B – Photographic Record**



**Hawthorne Substation Project** 

Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

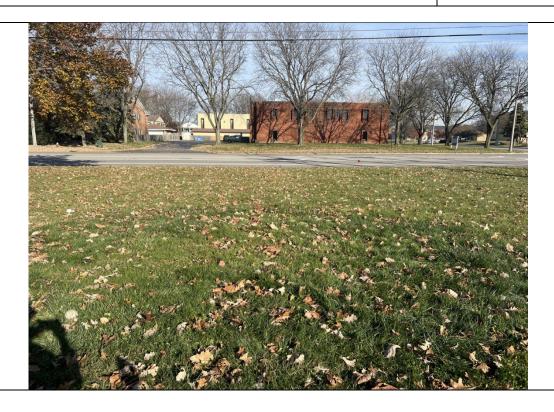
664674 Phase 4

#### Photo No. 1.

# Photo Date: 11/16/2023

## Description:

Photo of the northern extent of the Project Study Area near Heatherdowns Blvd, facing north.



#### Photo No. 2.

# Photo Date:

#### 11/16/2023

#### **Description:**

Photo of the northern extent of the Project Study Area, facing east.





**Hawthorne Substation Project** 

Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

664674 Phase 4

#### Photo No. 3.

Photo Date: 11/16/2023

#### Description:

Photo of the northern extent of the Project Study Area, facing west.



#### Photo No. 4.

Photo Date: 11/16/2023

## Description:

Photo of the southern extent of the Project Study Area, facing east.





**Hawthorne Substation Project** 

Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

664674 Phase 4

#### Photo No. 5.

Photo Date: 11/16/2023

#### Description:

Photo of the southern extent of the Project Study Area, facing south.



#### Photo No. 6.

Photo Date: 11/16/2023

## Description:

Photo of the southern extent of the Project Study Area, facing west.





**Hawthorne Substation Project** 

**Client Name:** 

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

664674 Phase 4

#### Photo No. 7.

Photo Date: 7/29/2025

#### Description:

Photo of the northern extent of the Project Study Area near Heatherdowns Blvd, facing south.



#### Photo No. 8.

Photo Date: 7/29/2025

## Description:

Photo of the western extent of the Project Study Area, facing east.





**Hawthorne Substation Project** 

Client Name:

Site Location:

Project No.

FirstEnergy

City of Toledo, Lucas County, Ohio

664674 Phase 4

#### Photo No. 9.

Photo Date: 7/29/2025

#### Description:

Representative photo of the Project Study Area, facing east.



#### Photo No. 10.

Photo Date: 7/29/2025

#### Description:

Representative photo of the Project Study Area, facing north.





# **ATTACHMENT C – Data Forms**

#### WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Hawthorne Substation Proje	ect City/County: T	oledo, Lucas County		Sampling Date: 2023-11-16				
Applicant/Owner: FirstEnergy			ate: OH Sampling Poir					
Investigator(s): Michael Whitacre, Emma	Given		Section, Township, Rang	ge: NA				
Landform (hillslope, terrace, etc): Flat		Local relief (concave	e, convex, none): None	Slope (%): <u>0 to 1</u>				
Subregion (LRR or MLRA): MLRA 99 of 1								
Soil Map Unit Name: <u>Lenawee silty clay l</u>	oam, 0 to 1 percent sl	lopes	NWI Classifica	ation: None				
Are climatic / hydrologic conditions on the s	ite typical for this time o	of year? Yes 🗶 No	(If no, explain in Remar	íks.)				
Are Vegetation, Soil, or Hy								
Are Vegetation, Soil, or Hy	drology naturall	y problematic?	(If needed, explain any answe	ers in Remarks.)				
<b>SUMMARY OF FINDINGS — Attac</b>	h site map show	ing sampling poin	t locations, transects, i	mportant features, etc.				
Lindran butio Veretation Dresento	No. ¥	Is the Samp	led Area					
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No X	within a We	tland? Yes	No <b>X</b>				
Wetland Hydrology Present? Yes	No X	l I	DOD EV	C 1				
, 3,		If yes, option	al Wetland Site ID: ROP-EK	<u>n-1</u>				
Remarks: (Explain alternative procedures	here or in a separate re	eport.)						
Covertype is UPL. Based on the absence of	of all three parameters, thi	s area is an upland.						
HYDROLOGY								
Wetland Hydrology Indicators:				tors (minimum of two required)				
Primary Indicators (minimum of one is req				Surface Soil Cracks (B6)				
Surface Water (A1)	Water-Stained L	` '	Drainage Patte					
High Water Table (A2)	Aquatic Fauna (		Moss Trim Lin					
Saturation (A3) Water Marks (B1)	Marl Deposits (I		Dry-Season w Crayfish Burro	Vater Table (C2)				
Sediment Deposits (B2)	Hydrogen Sulfic	spheres along Living Ro		ible on Aerial Imagery (C9)				
Drift Deposits (B3)		duced Iron (C4)		essed Plants (D1)				
Algal Mat or Crust (B4)		duction in Tilled Soils (C						
Iron Deposits (B5)	Shallow Aquita							
Inundation Visible on Aerial Imagery (E	Thin Muck Surfa 37) Other (Explain i	` ,		phic Relief (D4)				
Sparsely Vegetated Concave Surface		,	FAC-Neutral T	est (D5)				
Field Observations:								
Surface Water Present? Yes	No 🗶 Depth	(inches):						
Water Table Present? Yes	No X Depth	(inches):						
Saturation Present? Yes	No X Depth	(inches):	Wetland Hydrology Present?	Yes No 🗶				
(includes capillary fringe)		(	, 0,					
Describe Recorded Data (stream gauge, r	nonitoring well, aerial p	hotos, previous inspecti	ons), if available:					
Describe Neserada Data (etream gaage, i	nomicing wen, denar p	notes, provides inspecti	only, if available.					
Remarks: The criterion for wetland hydrology is not	mot							
The criterion for wedand nydrology is not	met.							

VEGETATION — Use scientific names of plants.				Sampling Point: ROP-EKG-1			
<u>Tree Stratum</u> (Plot size: _30 ft radius)		Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Pinus strobus	10	Yes	FACU	Number of Dominant Species			
2. Ailanthus altissima	10	Yes	UPL	That Are OBL, FACW, or FAC: $0$ (A)			
3.				Total Number of Dominant			
4.				Species Across All Strata: 5 (B)			
5.				Percent of Dominant Species			
6.				That Are OBL, FACW, or FAC: $0\%$ (A/B)			
7				Prevalence Index worksheet:			
Conline (Chruh Ctrotum (Diet size), 15 ft radius	20	= Total	Cover	Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15 ft radius )  1. Lonicera japonica	20	Yes	FACU	OBL species $0 \times 1 = 0$			
2. Malus sp.		Yes	NI	FACW species5 x 2 =10			
3.							
4.		·	-	FAC species0 x 3 =0			
5.				FACU species 70 x 4 = 280			
6.				UPL species 10 x 5 = 50			
7.		·		Column Totals: 85 (A) 340 (B)			
	25	= Total	Cover				
Herb Stratum (Plot size: 5 ft radius )			0010.	Prevalence Index = B/A = 4			
1. Dactylis glomerata	35	Yes	FACU				
2. Geum laciniatum	5	No	FACW	Hydrophytic Vegetation Indicators:			
3. Plantago lanceolata	5	No	FACU	1 - Rapid Test for Hydrophytic Vegetation			
4.				2 - Dominance Test is >50%			
5				_ 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
6				4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
7.				data in Remarks or on a separate sheet)			
8.		<del></del>		·			
9. 10.		<del></del>		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
11. 12.				be present, unless disturbed or problematic.			
<u> </u>		= Total	Cover	Definitions of Vanatation Charte.			
Woody Vine Stratum (Plot size: 30 ft radius )		· · · · · ·	00101	Definitions of Vegetation Strata:			
1.				Tree — Woody plants 3 in. (7.6 cm) or more in diameter			
2.				at breast height (DBH), regardless of height.			
3				Sapling/shrub — Woody plants less than 3 in. DBH			
4				and greater than or equal to 3.28 ft (1 m) tall.			
	0 = Total Cover			<b>Herb</b> — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.			
				Hydrophytic Vegetation Present? Yes No			
Remarks: (Include photo numbers here or on a separate sh	neet.)						
The criterion for hydrophytic vegetation is not met.							

Profile Desc	cription: (Describe to	the dep	th needed to docui	ment th	e indica	tor or co	onfirm the a	osence of indicators.)		
Depth	Matrix			Feature						
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0 to 12	10YR 2/1	100		· <u> </u>			Sandy Loan	<u> </u>		
12 to 20	10YR 2/1	60	10YR 6/8	3	C	PL	Loam			
12 to 20	10YR 4/3	37					Loam			
					_					
				· <del></del>						
				-						
1Type: C=Co	ncentration, D=Deplet	tion RM=	Reduced Matrix CS	=Cover	ed or Co	ated Sa	nd Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.		
	•		Treduced WidthX, Oc	-00101		ated out				
Hydric Soil In Histosol (A			Pohazduo Po	Now Su	faca (S0	\		dicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	oedon (A2)		Polyvalue Be MLRA 149B		iace (So	) (LKK I		Coast Prairie Redox (A16) (LRR K, L, R)		
Black Hist			Thin Dark Su	rface (S				5 cm Muck Peat or Peat (S3) (LRR K, L, R)		
	Sulfide (A4)		Loamy Muck			RR K, L	_)	Dark Surface (S7) (LRR K, L)		
	Layers (A5) Below Dark Surface (	۸11)	Loamy Gleye Depleted Ma				_	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)		
	k Surface (A12)	AII)	Redox Dark				_	Iron-Manganese Masses (F12) (LRR K, L, R)		
	icky Mineral (S1)		Depleted Da				_	Piedmont Floodplain Soils (F19) (MLRA 149B)		
	eyed Matrix (S4)		Redox Depre	essions	(F8)		_	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Re							_	Red Parent Material (F21)		
	Matrix (S6) ace (S7) <b>(LRR R, ML</b> I	RA 149R)	1				_	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)		
							_			
<sup>3</sup> Indicators of	hydrophytic vegetation	on and we	etland hydrology mus	st be pre	esent, un	less dist	turbed or pro	olematic.		
	ayer (if present):									
Type: Not										
Depth (inc	nes):							Hydric Soil Present? Yes No 🗶		
Remarks:										
The criteri	on for hydric soil is not	met.								

#### U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

See ERDC/EL TR-12-1; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Hawthorne Substation Project	City/County:	Toledo, Lucas County	Sampling [	Date: 2025-7-29			
		State: OH Sam					
Investigator(s): Jenna Slabe, Will Haas		Section, Towns					
		ocal relief (concave, convex, none): None Slope (%): 0 to 1					
Subregion (LRR or MLRA): MLRA 99 of LRR L	Lat: 41.594	Long: <u>-83</u>	.669605	Datum: WGS84			
Soil Map Unit Name: Lenawee silty clay loam, 0 to							
Are climatic / hydrologic conditions on the site typical f	or this time of year? Yes <b>X</b>	No (If no, explain	in Remarks.)				
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circums	tances" present? Yes	<b>X</b> No			
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain ar	ny answers in Remark	(s.)			
SUMMARY OF FINDINGS — Attach site m	ap showing sampling	point locations, trans	sects, important	features, etc.			
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No X Is the with	ne Sampled Area	es No <b>X</b>				
Remarks: (Explain alternative procedures here or in a Covertype is UPL. Based on the absence of all three p	,	l.					
HYDROLOGY							
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ater-Stained Leaves (B9) uatic Fauna (B13) url Deposits (B15) drogen Sulfide Odor (C1) idized Rhizospheres on Livir esence of Reduced Iron (C4) cent Iron Reduction in Tilled in Muck Surface (C7)	Surf   Drai	lary Indicators (minimulary Indicators (minimulare Soil Cracks (B6) inage Patterns (B10) as Trim Lines (B16) as Trim Lines (B16) as Trim Lines (C8) auration Visible on Aerion article or Stressed Plantomorphic Position (D2) allow Aquitard (D3) rotopographic Relief (C-Neutral Test (D5)	(C2) al Imagery (C9) ts (D1) )			
Field Observations:							
Surface Water Present? Yes No	Depth (inches):						
Water Table Present? Yes No Saturation Present? Yes No Significant Staturation Present? No Significant Staturation Present?	Depth (inches): Depth (inches):	Wetland Hydrology	Present? Yes	No <b>*</b>			
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous i	nspections), if available:					
Remarks: The criterion for wetland hydrology is not met.							

**VEGETATION** — Use scientific names of plants. Sampling Point: ROP-JMS-1 Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30 ft radius % Cover Species? Status Number of Dominant Species **FACU** 1. Tilia americana 50 Yes That Are OBL, FACW, or FAC: 1 (A) Yes **FACU** 2. Quercus macrocarpa Total Number of Dominant 3. Taxus canadensis 15 No FACU Species Across All Strata: (B) 4. 10 No **FACU** Quercus rubra Percent of Dominant Species 5. That Are OBL, FACW, or FAC: 25% (A/B) 6. 7. Prevalence Index worksheet: 95 = Total Cover Multiply by: Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 ft radius ) **OBL** species x1 =1. 2. 0 0 **FACW** species x 2 = 3. 10 x 3 = 30 **FAC** species 4. 120 480 **FACU** species x 4 = 5. 0 0 **UPL** species x 5 = 6. 130 510 Column Totals: (A) 7. = Total Cover Prevalence Index = B/A = 3.9Herb Stratum (Plot size: 5 ft radius Plantago lanceolata Yes **FACU** 1. **Hydrophytic Vegetation Indicators:** FAC 2. Carex blanda Yes 1 - Rapid Test for Hydrophytic Vegetation 5 **FACU** 3. Taraxacum officinale No 2 - Dominance Test is >50% 5 **FACU** 4. Oxalis stricta No 5. 3 - Prevalence Index is ≤3.0<sup>1</sup> 6. 4 - Morphological Adaptations<sup>1</sup> (Provide supporting 7. data in Remarks or on a separate sheet) 8. Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 9. 10 <sup>1</sup>Indicators of hydric soil and wetland hydrology must 11 be present, unless disturbed or problematic. 12. 35 = Total Cover **Definitions of Vegetation Strata:** Woody Vine Stratum (Plot size: 30 ft radius ) Tree – Woody plants 3 in. (7.6 cm) or more in diameter 1. at breast height (DBH), regardless of height. 2. Sapling/shrub - Woody plants less than 3 in. DBH 3. and greater than or equal to 3.28 ft (1 m) tall. 4. **Herb** — All herbaceous (non-woody) plants, regardless 0 = Total Cover of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes No X Present? Remarks: (Include photo numbers here or on a separate sheet.) The criterion for hydrophytic vegetation is not met.

Page 2 of 3

SOIL								Sampling Point: ROP	2-JMS	5-1	
Profile Des	cription: (Describe to	o the dept	h needed to docum	ent the	indicate	or or cor	nfirm the a	absence of indicators.)			
1 101110 200	Matrix	o tilo dopt		Feature		. o. oo.		associate of mandatorol,			
Depth						12	<b>-</b> .	-			
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture				
0 to 8	10YR 3/2	100					Clay Loa	<del></del> -			
8 to 20	10YR 4/3	100					Clay Loa	ım			
				. ——							
-								<del></del>			
				. ——							
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion, RM=F	Reduced Matrix, CS=	Covered	d or Coa	ted Sand	d Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matr	ix.		
Hydric Soil I	ndicators:							Indicators for Problematic Hydric S	oile3.		
Histosol (			Dark Surface	(S7)				2 cm Muck (A10) (LRR K, L, MLR			
	pedon (A2)		Polyvalue Be		ace (S8)	(LRR R	.,	5 cm Muck Peat or Peat (S3) (LRF			
Black His	` '		MLRA 149B	)	` '	•		Polyvalue Below Surface (S8) (LR	RK, I		
	Sulfide (A4)		Thin Dark Su					Thin Dark Surface (S9) (LRR K, L)		>	
	Layers (A5) Below Dark Surface (	(Δ11)	High Chroma Loamy Muck					Iron-Manganese Masses (F12) (LI Piedmont Floodplain Soils (F19) (N			
	k Surface (A12)	(/ (11)	Loamy Gleye			, _,	'	Red Parent Material (F21) (outsid			
	osulfide (A18)		Depleted Mat	trix (F3)				Very Shallow Dark Surface (F22)			
	odic (A17)		Redox Dark S					Other (Explain in Remarks)			
	. <b>44A, 145, 149B)</b> ucky Mineral (S1)		Depleted Dar Redox Depre								
	eyed Matrix (S4)		Nedox Deple Marl (F10) <b>(L</b>								
Sandy Re	edox (S5)		Red Parent N			LRA 145	5)				
Stripped	Matrix (S6)										
<sup>3</sup> Indicators o	f hydrophytic vegetati	on and wet	land hydrology must	be pres	ent. unle	ess distu	rbed or pro	oblematic.			
		on and wee		be piec		oo alota	ibou or pro	I			
	_ayer (if present):										
Type: Depth (inc	shae).							Hydric Soil Present? Yes	No	×	
Depui (inc								nyunc 3011 Flesent? Tes	NO_		
Remarks:											
The criter	ion for hydric soil is not	t met.									