AMERICAN TRANSMISSION SYSTEMS, INCORPORATED
A FIRSTENERGY COMPANY

CONSTRUCTION NOTICE

BAYSHORE SUBSTATION EXPANSION PROJECT

Case No.: 26-0019-EL-BNR

February 18, 2026

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

CONSTRUCTION NOTICE
BAYSHORE SUBSTATION EXPANSION PROJECT
OPSB CASE No. 26-0019-EL-BNR

The following information is being provided in accordance with the procedures in the Ohio Administrative Code ("Adm.Code") Chapter 4906-6 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 Construction Notice application.

4906-6-05(B): CONSTRUCTION NOTICE REQUIREMENTS

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

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

Reference Number: 500

4906-6-05(B)(1): Brief Description of Project

American Transmission Systems, Incorporated, ("ATSI"), a FirstEnergy company, is proposing to expand the existing Bayshore Substation to accommodate the installation of a new 138 kV Packaged Control Enclosure ("PCE"). To facilitate this, the substation will expand from its current area of 486,996 square feet to approximately 493,121 square feet. This will result in an approximate 1.26% increase in square footage. The electrical configuration of the substation remains unchanged.

The Project is in the city of Oregon in Lucas County, Ohio. The general location of the Project is shown in Exhibit 1, a partial copy of the United States Geologic Survey, Lucas County, OH, Quad Map. Exhibit 2 is a copy of ESRI aerial imagery of the Project area. The general layout of the Project is shown in Exhibit 3.

4906-6-05(B)(1): Construction Notice Requirement

The Project meets the requirements for a Construction Notice application because the Project is within the types of projects defined by Item (4)(a) 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:

(a) There is a twenty percent or less expansion of the fenced area.

The proposed Project is within the requirements of Item (4)(a) as it involves the expansion of the Bayshore Substation by an amount less than 20 percent of the existing fenced area.

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

The proposed Project will replace the Bayshore Substation Packaged Control Enclosure ("PCE") recently damaged by floods. The basement of the PCE houses communication equipment, AC and DC panels, and the battery bank. Recent floods have engulfed the battery bank. The existing PCE at Bayshore Substation is deteriorated and cable troughs (trenches that go out to the substation yard that hold the control cables for substation equipment) are full and no longer have room to add equipment. This expansion is also necessary to separate ATSI-owned equipment from power plant-related equipment currently housed in the existing Electrical Control Room ("ECR") of the PCE. To meet compliance standards for access, a new PCE exclusively for ATSI equipment will be constructed.

As the Project is installing a new PCE, advanced transmission technologies were not considered for this Project.

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 not included in ATSI's LTFR filed in 2025 because the Project does not entail any topology or rating change. The general location and layout of the Project area is shown in Exhibits 1 and 2.

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

The only other alternative is to take no action and continue operating the current control house with the damage caused by the flooding, and with the lack of separation between ATSI and power plant facilities. This is not the preferred course of action, as it does not meet current ATSI compliance standards.

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 .

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

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

Construction on the Project is expected to begin as early as June 1, 2026, and be completed/in-service by December 31, 2026.

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

The general location of the Project is shown in Exhibit 1, a partial copy of the United States Geologic Survey, Lucas County, OH, Quad Map. Exhibit 2 is a copy of ESRI aerial imagery of the Project area. The general layout of the Project is shown in Exhibit 3.

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

This Project is located entirely on Toledo Edison owned property. No new easements will be required.

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 component of the proposed Project:

Structures: One (1) 28 x 58 ft Packaged Control Enclosure (PCE) for the 138 kV switchyard.

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

As this is a substation expansion project and there is no transmission line work, 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 $24,055,000. 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 located in the city of Oregon in Lucas County, Ohio. The land use in the vicinity of the Project area is a combination of commercial and light industrial.

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

Agricultural land use does not exist within the Project Area.

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

As part of the investigation for this Construction Notice, TRC Companies, Inc. ("TRC") submitted a request to the Ohio Historic Preservation Office ("SHPO") on behalf of ATSI to review and provide comments for the Project Study Area (Area of Potential Effects or APE) with a one (1)-mile search radius. On December 4, 2025, SHPO replied to the request and the response is attached as Exhibit 4. SHPO concurred that while there are six (6) properties within the visual APE, there is not enough information to determine if they are eligible for listing; however, the proposed substation expansion should not impact the significance or integrity of the properties in a way that would alter their National Register eligibility. Therefore, it is SHPO's opinion that the Project will have no effect on historic properties and 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's completion.

The OHPO database includes the locations of previously recorded historic properties that are 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 Online Mapping System review revealed that there are no historic properties or Determination of Eligibility (DOE) resource points within the Study Area or within one (1)-mile of the Study Area.

The OHPO 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 are no OGS cemeteries or archaeological surveys recorded within one (1)-mi. There are 14 above-ground historic resources recorded within one (1)-mi of the proposed Project. The nearest of these is situated 0.03 mi northwest of the proposed Project.

There is one (1) previously recorded pre-contact archaeological site that has an unknown temporal affiliation recorded 0.76 mi to the southeast.

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

No ROW permits will be necessary based on the proposed Project. If more than one (1) acre of earth disturbance is proposed in the Project scope, then submittal of a Notice of Intent (NOI) application to the Ohio EPA will be required for coverage under the general construction stormwater permit (OHC000006), and the Storm Water Pollution Prevention Plan (SWPPP) submitted to the City of Oregon Engineer. The Project scope is not proposed within a 100-year FEMA floodplain and therefore will not require a Floodplain Hazard Development Permit. 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.

Table 1. List of Government Agency Requirements

Agency	Requirement
Ohio EPA	General NPDES Construction Storm Water Permit OHC000006
City of Oregon Engineer	SWPPP Review

4906-6-05 (B)(10)(e): Endangered, Threatened, Rare and Designated 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 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 November 19, 2025, indicated that the following two (2) state-listed fish are located within a one (1) mile radius of the Project Study Area: the channel darter (*Percina copelandi*) and the western banded killifish (*Fundulus diaphanus menona).* However, the response noted that the species listed above are not recorded within the boundaries of the Project Study Area. Additionally, the Project is within the range of twenty state and/or federally listed animal species. A list of all endangered, threatened, and rare species, as identified by ODNR, within

the range of the Project is provided in Table 2. A copy of the ODNR Office of Real Estate's response is included as Exhibit 5.

Table 2. Endangered, Threatened, and Rare 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.
Birds				
Sandhill crane	*Antigone canadensis*	N/A	Threatened	Grassland, prairie, or large tracts of wetland habitat.
Northern harrier	*Circus hudsonius*	N/A	Endangered	Large marshes and grasslands.
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.
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.
Mussels				
Eastern pondmussel	*Ligumia nasuta*	N/A	Endangered	Perennial streams.
Pondhorn	*Uniomerus tetralasmus*	N/A	Threatened	Perennial streams.

Rayed bean	*Villosa fabalis*	Endangered	Endangered	Perennial streams.
Snuffbox	*Epioblasma triquetra*	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.

Based on the information received from correspondence with ODNR, the Project is within the ranges of the Indiana bat *(Myotis sodalist)*, the northern long-eared bat *(Myotis septentrionalis)*, the little brown bat *(Myotis lucifugus)*, and the tricolored bat *(Perimyotis subflavus)*. 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 November 25, 2025. ODNR responded on December 1, 2025, concurring that no caves, cliffs, or mine openings occur in the Project Study Area; therefore, the Project is not likely to impact hibernating bats. The response is attached as Exhibit 5A. In assessing compliance with NWP General Condition 18, TRC determined that tree clearing is not anticipated, as no trees are present within the Project Study Area. Due to no required tree clearing and that no winter bat habitat is present within the Project Study Area, bat species are not likely to be impacted by the proposed Project.

The Project is within the range federally endangered rayed bean (*Villosa fabalis*) and snuffbox (*Epioblasma triquetra*); the state endangered eastern pondmussel *(Ligumia nasuta*), cisco *(Coregonus artedi)*, lake sturgeon *(Acipenser fulvescens),* western banded killifish *(Fundulus diaphanous menona)*; and the state threatened pondhorn (*Uniomerus tetralasmus*), greater

redhorse *(Moxostoma valenciennesi)*, American eel *(Anguilla rostrata)*, channel darter *(Percina copelandi)*. Due to the location, and that 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 Blanding's turtle (*Emydoidea blandingii*), a state threatened species. This species inhabits marshes, ponds, lakes, streams, wet meadows, and swampy forests. 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 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 Project is within the range of the northern harrier (*Circus hudsonius*), a state endangered bird. This is a common migrant and winter species that breed in large marshes and grasslands and hunt over grasslands. Due to the existing industrial land use and a lack of suitable habitat within the Project Study Area, this species is not likely present, and impacts are not anticipated.

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 industrial 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 submitted a Technical Assistance request to the USFWS on October 24, 2025, to research the presence of any endangered, threatened, rare, or designated species within the Project Study Area. A copy of the USFWS' response, dated November 19, 2025, is included as Exhibit 6. Due to the Project type, size, location, and the proposed implementation of seasonal tree cutting (clearing of trees ≥3 inches diameter at breast height between October 1 and March 31) to avoid impacts to the Indiana bat, northern long-eared bat, and tricolored bat, USFWS does not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. As noted above, no tree clearing is required for this Project.

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

TRC performed field investigations to identify and delineate wetlands and waterbodies located within the 0.59-acre Project Study Area on November 4, 2025. No wetlands or streams were identified within the Project Study Area during the field survey. To verify the absence of wetlands within the Project Study Area, an upland data point (U-JMS-1) was collected and shown on the attached delineated resources map. A Surface Water Delineation Technical Memorandum of the Project Study Area is included in Exhibit 7.

The Project Study Area consists of an existing substation facility and developed open space (mowed) within industrial land use. TRC did not observe the presence of any of the ODNR or federally listed species during the field investigation due to the highly maintained nature of the utility use and surrounding industrial and developed land use. 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 existing access roads and gravel lots within the industrial land use for the proposed construction. NWP Regional General Conditions were reviewed

regarding this Project. This Project is in the city of Oregon, Lucas County, Ohio, which is within the USACE Buffalo Regulatory District. All townships in Lucas County are listed in Appendix 1 to Regional General Condition 5(a) (Endangered Species and Threatened Species). Due to the nature of the Project, jurisdictional resources will not be impacted by the proposed Project activity. Therefore, Nationwide Permit ("NWP") 57 conditions are met and there is no potential trigger for a Section 404 PCN to USACE.

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 ("NESC") 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 Construction Notice Transmittal and Availability for Public Review

This Construction Notice application is being provided concurrently to the following officials in the city of Oregon and Lucas County, Ohio.

Lucas County

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

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

Commissioner Pete Gerken
Lucas County
Board of Commissioners
1 Government Center
Toledo, OH 43604
pgerken@co.lucas.oh.us

Ms. Jessica Ford
Lucas County Administrator
1 Government Center Suite 800
Toledo, OH 43604
jmford@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 Oregon

Steven Salander
City of Oregon Mayor
5330 Seaman Road
Oregon, OH 43616
SSalander@Oregonohio.org

Josette Snyder
President, Oregon City Council
5330 Seaman Road
Oregon, OH 43616
jsnyder@oregonohio.org

Joel L. Mazur
City Administrator
5330 Seaman Road
Oregon, OH 43616
jmazur@oregonohio.org

Paul Roman
Director of Public Service
5330 Seaman Road
Oregon, OH 43616
proman@oregonohio.org

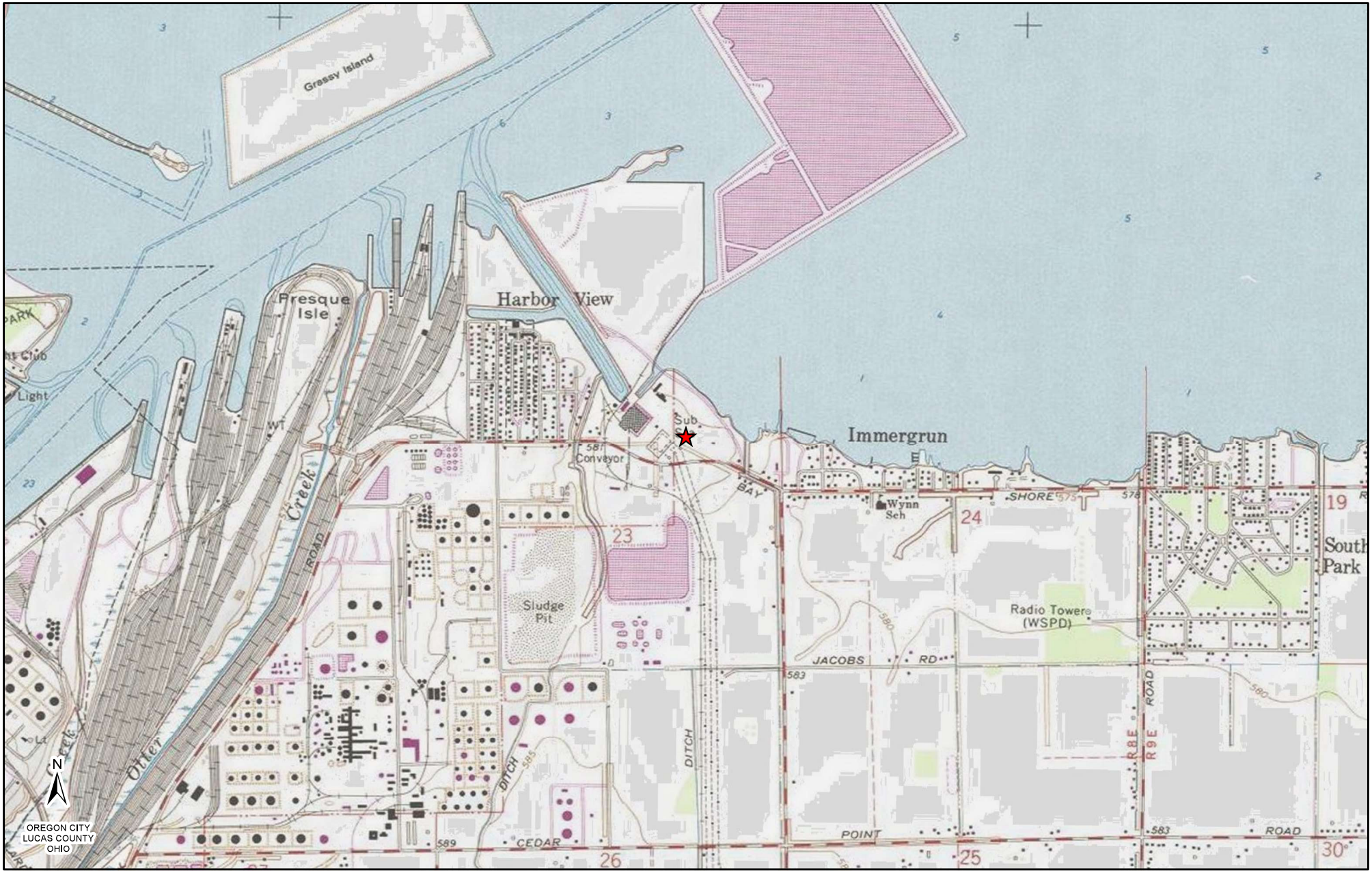
Nick Roman
Director of Finance
5330 Seaman Road
Oregon, OH 43616
Nroman@Oregonohio.org

Library

Brooke Cox, Manager
Oregon Branch Library
Toledo-Lucas County Public Library
3340 Dustin Road
Oregon, OH 43616-3302
Brooke.Cox@TOLEDOLIBRARY.ORG

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 www.firstenergycorp.com/about/transmission_project/ohio.html on how to request an electronic or paper copy of this Construction Notice 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).



LEGEND:

Project Location ★

0 1,000 2,000 4,000

Feet

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, Inc. a subsidiary of FirstEnergy Corp.

Bayshore Substation Expansion Project

LEGEND:

Project Location

0 1,000 2,000 4,000

Feet

Reference:

ESRI Imagery; ODOT

Coordinate System:

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

EXHIBIT 2

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

Bayshore Substation Expansion Project

LEGEND:

- PROPOSED FENCE LINE
- EXISTING FENCE LINE
- PROPOSED EXPANSION

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

BAYSHORE SUBSTATION EXPANSION PROJECT

GENERAL LAYOUT

EXHIBIT 3

PAPER SIZE: 11X8.5

EXHIBIT 4

In reply, please refer to:
2025-LUC-66886

December 4, 2025

Justin McKissick
TRC Environmental Corporation
317 E Carson St, Ste 113
Pittsburgh, PA 15219

RE: Bayshore Substation Expansion Project
Near 4701 Bay Shore Road, Oregon, Lucas County, Ohio

Dear Mr. McKissick:

This letter is in response to correspondence received on November 5, 2025. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code and 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 applicant proposes to expand the existing Bayshore Substation an additional 0.59 acres in size. The proposed work will include similar infrastructure to the existing facility. You have requested the comments of SHPO regarding the effects of the proposed undertaking on historic properties.

A check of our records indicates that there are six (6) properties within the Area of Potential Effects that have been documented in the Ohio Historic Inventory. Currently, we do not have enough information to determine if they are eligible for listing or not. However, the proposed construction should not impact the significance or integrity of these properties in a way that would alter their National Register eligibility. Therefore, it is the opinion of the SHPO that the proposed construction work will have no effect on historic properties.

No further coordination with this office is necessary unless the project changes or an unanticipated discovery of archaeological remains occurs during project construction. In such a situation, this office should be contacted as per 36 CFR 800.13. If you have any questions, please contact me at kkoehlinger@ohiohistory.org or (614) 298-2000. Thank you for your cooperation.

Sincerely,

Kristen M. Koehlinger

Kristen Koehlinger, Department Head & Deputy State Historic Preservation Officer for Resource Protection and Review

"Please be advised that this is a Section 106 decision. This review decision may not extend to other SHPO programs."

RPR Serial No: 1111614

Department of Natural Resources
ohiodnr.gov

EXHIBIT 5

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

November 19, 2025

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

Re: 25-1628_Bayshore Substation Expansion

Project: The proposed project involves the expansion of the existing Bayshore Substation.

Location: The proposed project is located in Oregon, 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: The Natural Heritage Database has the following data within one mile of the project area:

Western Banded Killifish (*Fundulus diaphanus menona*), E
Channel Darter (*Percina copelandi*), T

Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; U = state status under review; X = presumed extirpated in Ohio; FE = federally endangered, and FT = federally threatened. The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980. Features searched include locations of rare and endangered plants and animals determined to be of value to the conservation of their species, high quality plant communities, animal breeding assemblages, and outstanding geological features.

The species listed above are not recorded within the boundaries of the specified project area. However, please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for an 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*)

State Threatened
greater redhorse (*Moxostoma valenciennesi*)
American eel (*Anguilla 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 northern harrier (*Circus hudsonius*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, 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 local floodplain administrator should be contacted concerning the possible need for any floodplain permits or approvals. The FEMA National Flood Hazard Layer (NHFL) Viewer website 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' Water Withdrawal Facilities Registration (WWFR) Program 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 Water Inventory & Planning website.

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew (Environmental Services Administrator) at mike.pettegrew@dnr.ohio.gov 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.*

EXHIBIT 5A

From: Eileen.Wyza@dnr.ohio.gov
To: Slabe, Jenna
Cc: Falkinburg, Brad; Molnar, Maggie
Subject: [EXTERNAL] RE: Desktop Hibernacula Assessment: FirstEnergy"s Bayshore Substation Expansion Project
Date: Monday, December 1, 2025 2:19:44 PM
Attachments: image002.png
image004.png
image005.png
image006.png
image007.png
image008.png
image001.png

Hello Jenna,

Per review of the desktop survey provided for FirstEnergy's Bayshore Substation Expansion Project, the Ohio Division of Wildlife concurs with your assessment that no caves, cliffs, or mine openings occur in the project area. Additionally, because the project does not involve impacting the bedrock, the project is not likely to impact hibernating bats that may be present in the underground mines.

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.

From: Slabe, Jenna <JSlabe@trccompanies.com>
Sent: Tuesday, November 25, 2025 3:33 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 Bayshore Substation Expansion Project

Eileen,

In response to ODNR's DOW recommendations (25-1628; Attached), TRC completed a desktop hibernacula assessment to determine if potential hibernaculum is present within FirstEnergy's proposed Bayshore Substation Expansion Project located in the city of Oregon, 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

TRC
1382 W 9th St, Suite 400, Cleveland, OH 44113
C 330.998.0481 | JSlabe@trccompanies.com
TRCcompanies.com

EXHIBIT 6

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

November 19, 2025

Project Code: 2026-0007989

Dear Ms. Slabe:

The U.S. Fish and Wildlife Service (Service) has 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 impacts to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

Federally Threatened and Endangered Species: Due to the project type, size, location, and the proposed implementation of seasonal tree cutting (clearing of trees ≥3 inches diameter at breast height between October 1 and March 31) to avoid impacts to the endangered Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*), and the proposed endangered tricolored bat (*Perimyotis subflavus*) we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, coordination with the Service should be initiated to assess any potential impacts.

Section 7 Coordination: If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), then no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence. This letter provides technical assistance only and does not serve as a completed section 7 consultation document.

Stream and Wetland Avoidance: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (https://epa.ohio.gov/portals/47/facts/ohio_wetlands.pdf). We recommend avoiding and minimizing project impacts to all wetland habitats (e.g., forests, streams, vernal pools) to the maximum extent possible in order to benefit water quality and fish and wildlife habitat. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the U.S. Army Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. Disturbed areas should be mulched and revegetated with native plant

species. In addition, prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, Environmental Services Administrator, at (614) 265-6387 or at mike.pettegrew@dnr.ohio.gov.

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

EXHIBIT 7

1382 West Ninth St.
Suite 400
Cleveland, OH 44113

T 216.344.3072
TRCcompanies.com

November 10, 2025

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

Reference: Technical Memorandum for the Surface Water Delineation of the Bayshore Substation Expansion Project located in the city of Oregon, Lucas County, Ohio.
(TRC Project No. 664674 Phase 22)

Dear Mr. Ruggiero:

On behalf of FirstEnergy Corporation (FirstEnergy), TRC Environmental Corporation (TRC) conducted a surface water delineation for Bayshore Substation Expansion Project (Project). The Project is in the city of Oregon, Lucas County, Ohio and the Study Area is 0.59-acre in size (**Attachment A, Figures 1 and 2**). The Project Study Area is located at the following centroid coordinates: 41.691339, -83.437013. This Project involves the expansion of the existing Bayshore Substation.

The delineation was conducted by qualified wetland scientists on November 4, 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 Oregon, Ohio 7.5-minute quadrangle topographic map. The soil mapped within the Project Study Area is non-hydric (**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 panel, 39095C0110F (eff. 2/22/2024), 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 substation facility and maintained, open space (mowed) within the FirstEnergy substation property. See the attached mapping in **Attachment A** and the Photographic Record in **Attachment B** for additional Project Study Area details.

During the field investigation, no wetlands or streams were identified or delineated within the Project Study Area. To verify the absence of wetlands within the Project Study Area, one (1) upland data point (U-JMS-1) was collected and is shown on **Figure 5** in **Attachment A**. Data was collected and recorded on the USACE Wetland Determination Data Sheet – Northcentral and Northeast Region. The USACE Wetland Determination Data Sheet is 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 BFalkinburg@TRCCompanies.com.

Kind Regards,

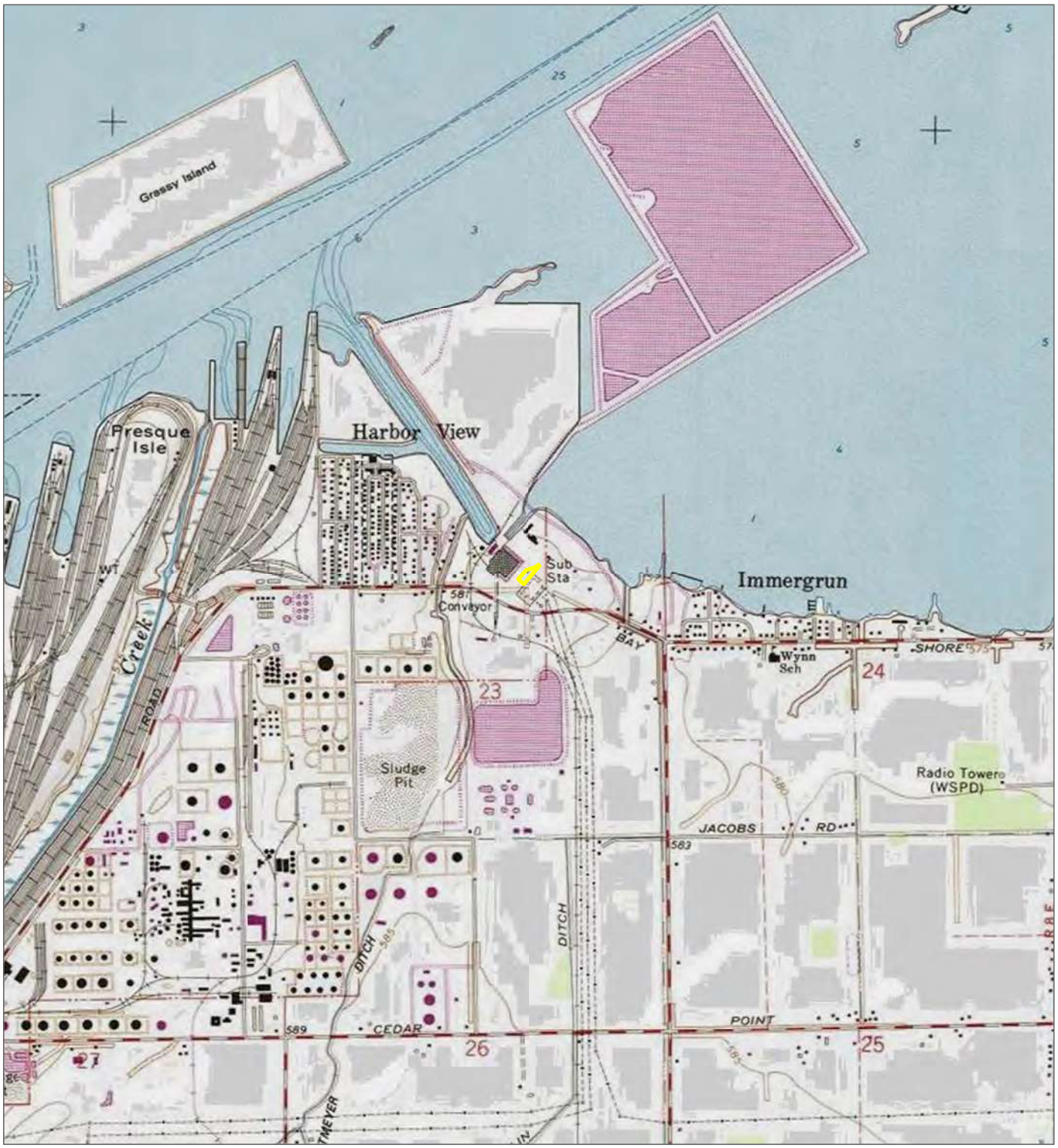
TRC

Brad M. Falkinburg, PWS
Ecological Office Practice Leader

cc: Maggie Molnar, PWS – TRC Environmental Corporation

Attachments
Attachment A: Figures
Attachment B: Photographic Record
Attachment C: Data Sheet

ATTACHMENT A – Figures



PROJECT STUDY AREA

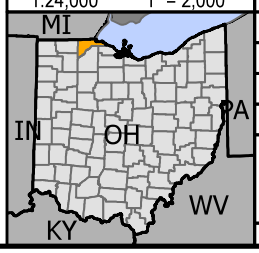
BASE MAP: USA TOPO MAPS MAP SERVICE, OREGON QUAD

N

0 1,000 2,000

FEET

1:24,000 1" = 2,000'



PROJECT:
FIRSTENERGY
BAYSHORE SUBSTATION EXPANSION PROJECT
LUCAS COUNTY, OH

TITLE:
SITE LOCATION MAP

DRAWN BY:	M. OPEL	PROJ. NO.:	664674 P22
CHECKED BY:	M. MOLNAR		
APPROVED BY:	B. FALKINBURG		**FIGURE 1**
DATE:	NOVEMBER 2025		

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

FILE: WDR

PROJECT STUDY AREA

BASE MAP: GOOGLE MAPS.

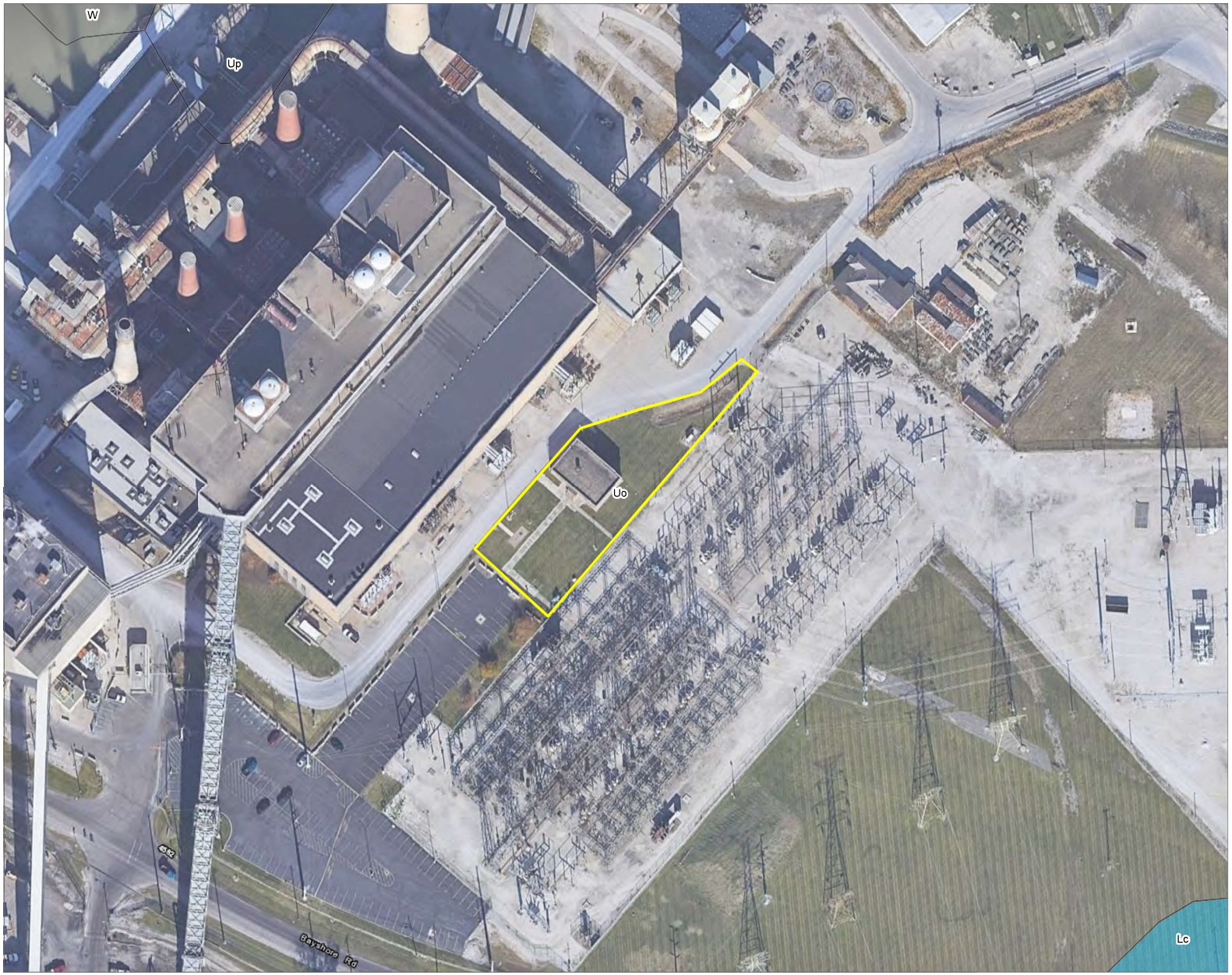
1:600
1" = 50'

0 50 100 FEET

PROJECT:	FIRSTENERGY BAYSHORE SUBSTATION EXPANSION PROJECT LUCAS COUNTY, OH
TITLE:	AERIAL MAP
DRAWN BY: M. OPEL	PROJ. NO.: 664674 P22
CHECKED BY: M. MOLNAR	FIGURE 2
APPROVED BY: B. FALKINBURG	
DATE: NOVEMBER 2025	

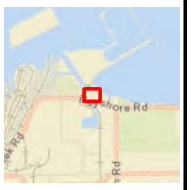
TRC
1382 WEST NINTH STREET
SUITE 400
CLEVELAND, OH 44113
PHONE: 216-344-3072

FILE: WDR.aprx



PROJECT STUDY AREA
HYDRIC SOIL
NON-HYDRIC W/ HYDRIC INCLUSIONS SOIL
NON-HYDRIC SOIL

BASE MAP: GOOGLE MAPS.
DATA SOURCES: SOILS DATA ACQUIRED FROM USDA/NRCS SSURGO DATABASE.



1:1,200
1" = 100'
0 100 200 FEET

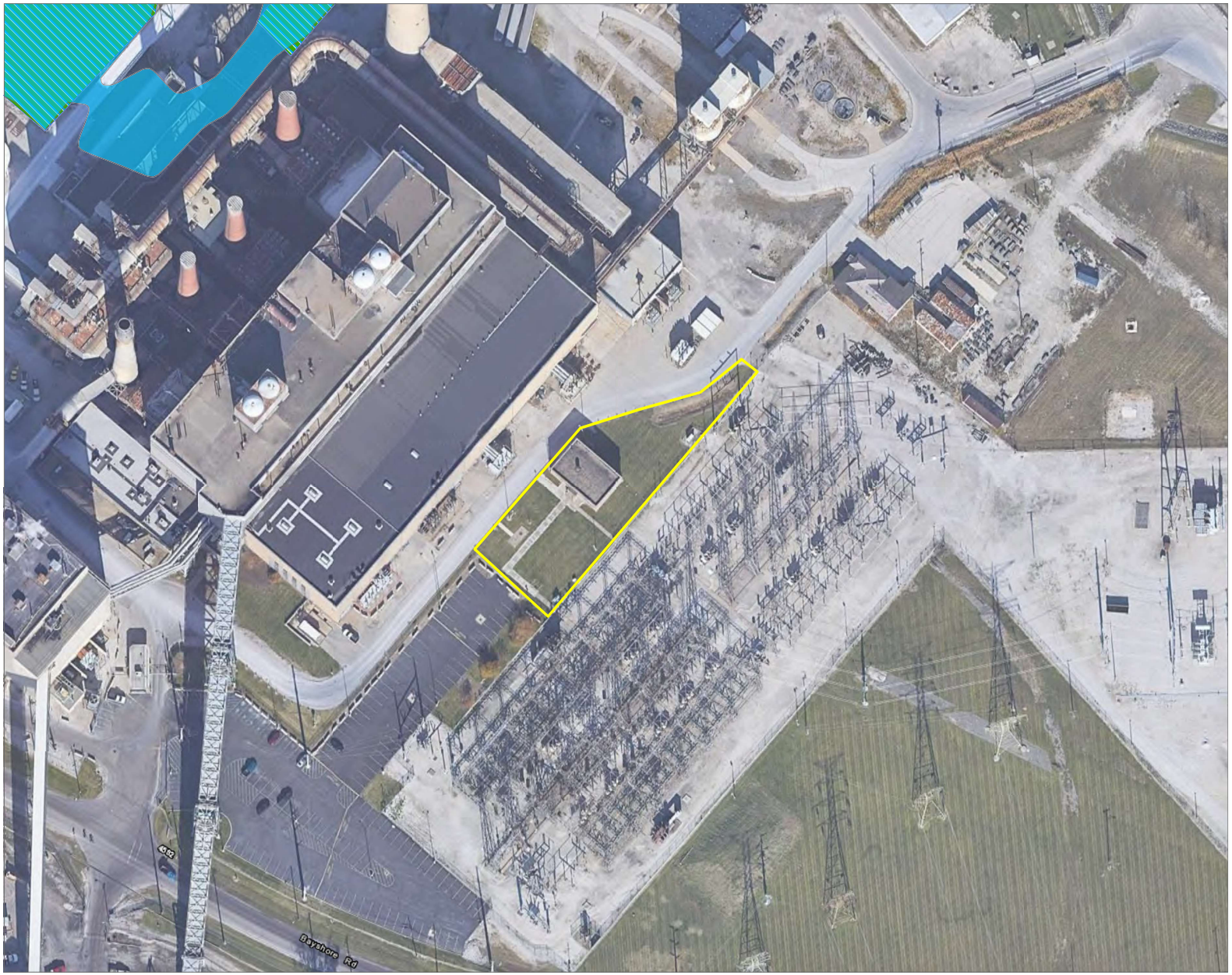
PROJECT:
FIRSTENERGY
BAYSHORE SUBSTATION EXPANSION PROJECT
LUCAS COUNTY, OH

TITLE:
SOILS MAP

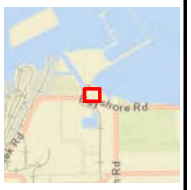
DRAWN BY:	M. OPEL	PROJ. NO.:	664674 P22
CHECKED BY:	M. MOLNAR		
APPROVED BY:	B. FALKINBURG		**FIGURE 3**
DATE:	NOVEMBER 2025		

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

FILE: WDR.aprx



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).



1:1,200
1" = 100'

0 100 200 FEET

PROJECT:
FIRSTENERGY
BAYSHORE SUBSTATION EXPANSION PROJECT
LUCAS COUNTY, OH

TITLE:
NHD, NWI AND FEMA FLOODPLAIN MAP

DRAWN BY:	M. OPEL	PROJ. NO.:	664674 P22
CHECKED BY:	M. MOLNAR		
APPROVED BY:	B. FALKINBURG		**FIGURE 4**
DATE:	NOVEMBER 2025		

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

FILE: WDR.aprx

PROJECT STUDY AREA
CULVERT
NON-JURISDICTIONAL DRAINAGE
UPLAND DATA POINT

BASE MAP: GOOGLE MAPS.
DATA SOURCES: TRC WETLAND DELINEATION COMPLETED NOVEMBER 4, 2025.

1:480
1" = 40'
0 40 80 FEET

PROJECT: **FIRSTENERGY**
BAYSHORE SUBSTATION EXPANSION PROJECT
LUCAS COUNTY, OH

TITLE: **DELINEATED RESOURCES MAP**

DRAWN BY:	M. OPEL	PROJ. NO.:	664674 P22
CHECKED BY:	M. MOLNAR		
APPROVED BY:	B. FALKINBURG		**FIGURE 5**
DATE:	NOVEMBER 2025		

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

FILE: WDR.aprx

ATTACHMENT B – Photographic Record

PHOTOGRAPHIC RECORD

Bayshore Substation Expansion Project

Client Name:	Site Location:	Project No.
FirstEnergy	City of Oregon, Lucas County, Ohio	664674 Phase 22

Photo No. 1. **Photo Date:** 11/4/2025 **Description:** Representative photo from the southern extent of the Project Study Area, facing north.	

Photo No. 2. **Photo Date:** 11/4/2025 **Description:** Representative photo from the southern extent of the Project Study Area, facing east.	

Client Name:	Site Location:	Project No.
FirstEnergy	City of Oregon, Lucas County, Ohio	664674 Phase 22

Photo No. 3.	
Photo Date: 11/4/2025	
Description: Representative photo from the southern extent of the Project Study Area, facing south.	

Photo No. 4.	
Photo Date: 11/4/2025	
Description: Photo of NJD-JMS-1 within the Project Study Area, facing west.	

Client Name:	Site Location:	Project No.
FirstEnergy	City of Oregon, Lucas County, Ohio	664674 Phase 22

Photo No. 5. **Photo Date:** 11/4/2025 **Description:** Representative photo from the northern extent of the Project Study Area facing east.	

Photo No. 6. **Photo Date:** 11/4/2025 **Description:** Representative photo from the northern extent of the Project Study Area facing west.	

Client Name:	Site Location:	Project No.
FirstEnergy	City of Oregon, Lucas County, Ohio	664674 Phase 22

Photo No. 7. **Photo Date:** 11/4/2025 **Description:** Representative photo of the northern portion of the Project Study Area, facing northeast.	

Photo No. 8. **Photo Date:** 11/4/2025 **Description:** Representative photo of the southern portion of the Project Study Area, facing southwest.	

ATTACHMENT C – Data Sheet

USACE Wetland Determination Data Form – Northcentral and Northeast Region

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: Bayshore Substation Expansion City/County: Oregon, Lucas County Sampling Date: 2025-11-4
Applicant/Owner: FirstEnergy State: OH Sampling Point: U-JMS-01
Investigator(s): Jenna Slabe, Leah Cavanaugh Section, Township, Range: NA
Landform (hillslope, terrace, etc): Flat Local relief (concave, convex, none): None Slope (%): 0 to 1
Subregion (LRR or MLRA): MLRA 99 of LRR L Lat: 41.6913388 Long: -83.4368445 Datum: WGS84
Soil Map Unit Name: Udorthents, loamy NWI Classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✘ No ____ (If no, explain in Remarks.)
Are Vegetation ____ , Soil ____ , or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✘ No ____
Are Vegetation ____ , Soil ____ , or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ____ No ✘
Hydric Soil Present? Yes ____ No ✘
Wetland Hydrology Present? Yes ____ No ✘

Is the Sampled Area within a Wetland? **Yes** ____ **No** ✘

If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
Covertype is UPL. Based on the absence of all three parameters, this area is an upland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)
- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)
- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes ____ No ✘ Depth (inches): ____
Water Table Present? Yes ____ No ✘ Depth (inches): ____
Saturation Present? (includes capillary fringe) Yes ____ No ✘ Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** ✘

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
The criterion for wetland hydrology is not met.

VEGETATION — Use scientific names of plants. Sampling Point: U-JMS-01

Tree Stratum (Plot size: 30 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft radius)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0	= Total Cover	

Herb Stratum (Plot size: 5 ft radius)				
1.	*Poa pratensis*	65	Yes	FACU
2.	*Plantago lanceolata*	25	Yes	FACU
3.	*Trifolium repens*	10	No	FACU
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		100	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft radius)			
1.			
2.			
3.			
4.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	100	x 4 =	400
UPL species	0	x 5 =	0
Column Totals:	100 (A)		400 (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree — Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub — Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb — All herbaceous (non-woody) plants, regardless 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 Present? Yes _____ No ✘

Remarks: (Include photo numbers here or on a separate sheet.)

The criterion for hydrophytic vegetation is not met.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0 to 6	10YR 4/3	100					Silt Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Iron Monosulfide (A18)
- __ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- __ Sandy Mucky Mineral (S1)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Dark Surface (S7)
- __ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- __ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- __ High Chroma Sands (S11) **(LRR K, L)**
- __ Loamy Mucky Mineral (F1) **(LRR K, L)**
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)
- __ Marl (F10) **(LRR K, L)**
- __ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- __ 2 cm Muck (A10) **(LRR K, L, MLRA 149B)**
- __ 5 cm Muck Peat or Peat (S3) **(LRR K, L, R)**
- __ Polyvalue Below Surface (S8) **(LRR K, L)**
- __ Thin Dark Surface (S9) **(LRR K, L)**
- __ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- __ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- __ Red Parent Material (F21) **(outside MLRA 145)**
- __ Very Shallow Dark Surface (F22)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: Gravel
Depth (inches): 6

Hydric Soil Present? Yes _____ **No** ✘

Remarks:
The criterion for hydric soil is not met in this shallow pit.