Letter of Notification for the South Kenton-Westminster and North Waldo-South Kenton 138 kV Transmission Line Relocations Project



PUCO Case No. 25-1022-EL-BLN

Submitted to: The Ohio Power Siting Board Pursuant to Ohio Administrative Code Section 4906-6-05

Submitted by: AEP Ohio Transmission Company, Inc.

November 17, 2025

LETTER OF NOTFICATION

AEP Ohio Transmission Company, Inc.

South Kenton-Westminster and North Waldo-South Kenton 138 kV Transmission Line Relocations Project

4906-6-05 Accelerated Application Requirements

AEP Ohio Transmission Company, Inc. (the Company) provides the following information to the Ohio Power Siting Board (OPSB) in accordance with the accelerated application requirements of Ohio Administrative Code Section 4906-6-05.

4906-6-05(B) General Information

B(1) Project Description

Provide the name of the project and applicant's reference number, names and reference number(s) of resulting circuits, a brief description of the project, and why the project meets the requirements for a letter of notification or construction notice application.

The Company proposes the South Kenton-Westminster and North Waldo-South Kenton 138 kV Transmission Line Relocations Project (the "Project"), in Buck Township, Hardin County, Ohio. Modifications are necessary at South Kenton Station, a distribution substation, in order to address fire damage as well as equipment material condition, performance, risk, and operational flexibility in the Kenton area. The Project addresses the necessary upgrade of the existing transmission line entrances into South Kenton Station. The modifications to South Kenton Station will result in the relocations of a 0.1-mile section of South Kenton-Sterling 138 kV line, which will be renamed to South Kenton-Westminster, and a 0.2-mile section of the West Mount Vernon-South Kenton 138 kV line, which will be renamed to North Waldo-South Kenton. The Project will allow the West Mount Vernon-South Kenton 138 kV Transmission Line Temporary Relocation (OPSB Case No. 25-0447-EL-BNR) to be removed. The location of the Project is shown on **Figures 1 and 2** in **Appendix A**.

The Project meets the requirements for a Letter of Notification (LON) as defined by Item 1(b) of Appendix A to Ohio Administrative Code Section 4906-1-01, *Application Requirement Matrix for Electric Power Transmission Lines*:

- (1) New construction, extension, or relocation of single or multiple circuit electric power transmission line(s), or upgrading existing transmission or distribution line(s) for operation at a higher transmission voltage, as follows:
 - (b) Line(s) greater than 0.2 miles in length but not greater than two miles in length

The Project has been assigned Case No. 25-1022-EL-BLN.

AEP Ohio Transmission Company, Inc.

B(2) Statement of Need

If the proposed project is an electric power transmission line or gas pipeline, the applicant provide a statement explaining the need for the proposed facility.

The Project relocates two existing 138 kV single-circuit transmission lines to address asset renewal needs at South Kenton Station. The two transmission line relocations, South Kenton-Westminster and North Waldo-South Kenton are required in order to re-terminate the lines into new positions within the newly rebuilt South Kenton 138 kV Station.

The South Kenton Station cannot be eliminated as it serves a vital 138 kV through path station between East Lima Station and North Waldo Station. Furthermore, the station has step down transformation to the 69 kV system that supports the Kenton area customers and will serve as a future location for a solar generation facility (PJM queue # AG1-554). Failure to move forward with this Project will result in the loss of an essential 138 kV transmission through path, subsequent loss of 69 kV transformation, and future needs for a mandated PJM point of interconnection to a proposed solar generator.

The need was presented and reviewed with stakeholders at the January 21, 2022, PJM SSRTEP Western Meeting. The solution was presented and reviewed at the July 21, 2023, PJM TEAC Meeting. The Project has been assigned PJM supplemental number s2982. The Project was included on page 69 of the Company's 2025 Long Term Forecast Report (LTFR) and pages 121 and 122 of Ohio Power's 2025 LTFR (See **Appendix B**).

B(3) Project Location

Provide the location of the project in relation to existing or proposed lines and substations shown on an area system map of sufficient scale and size to show existing and proposed transmission facilities in the project area.

The location of the Project in relation to existing transmission lines and substations is shown on **Figure** 1, in **Appendix A**.

B(4) Alternatives Considered

Describe the alternatives considered and reasons why the proposed location or route is best suited for the proposed facility, including but not be limited to, impacts associated with socioeconomic, ecological, construction, or engineering aspects of the project.

The Project accommodates the expansion of the existing South Kenton Station. Due to the location of the existing station, proposed expansion area, and existing transmission lines no other alternatives were considered for the Project. Any other alternative would add additional length or transmission line crossing to the Project without any additional benefit. This alternative has minimal land use impacts, located within agricultural land, or the existing substation property and has no impacts to wetlands, streams, or known cultural resource areas. Therefore, this Project represents the most suitable location and is the most appropriate solution for meeting the Company's needs in the area.

AEP Ohio Transmission Company, Inc.

South Kenton- Westminster and North Waldo- South Kenton 138 kV Transmission Line Relocations Project 25-1022-EL-BLN

B(5) Public Information Program

Describe its public information program to inform affected property owners and residents of the nature of the project and the proposed timeframe for project construction and restoration activities.

The Company will inform affected property owners and tenants about this Project through several different mediums. Within seven days of filing this LON, the Company will issue a public notice in a newspaper of general circulation in the Project area. The notice will comply with all requirements of Ohio Revised Code ("OAC") Section 4906-6-08(A)(1-6). Further, the Company will mail a letter, via first class mail, to affected landowners, tenants, contiguous owners and any other landowner the Company may approach for an easement necessary for the construction, operation, or maintenance of the Project. The letter will comply with all requirements of OAC Section 4906-6-08(B). The Company maintains a website (http://aeptransmission.com/ohio/) which provides the public access to an electronic copy of this LON and the public notice for this LON. An electronic copy of the LON will be served to the public library in each political subdivision for this Project. The Company retains ROW land agents that discuss Project timelines, construction and restoration activities and convey information to affected owners and tenants throughout the Project.

B(6) Construction Schedule

Provide an anticipated construction schedule and proposed in-service date of the project.

Construction of the Project is planned to begin in February 2026 with an anticipated in-service date of May 2027.

B(7) Area Map

Provide a map of at least 1:24,000 scale clearly depicting the facility and proposed limits of disturbance with clearly marked streets, roads, and highways, and an aerial image.

Figure 1, in Appendix A, identifies the location of the Project area on a United States Geological Survey 1:24,000 quadrangle maps of Mount Victory and Kenton, Ohio. **Appendix A**, **Figure 2** displays the Project components on a 2023 aerial photograph.

B(8) Property Agreements

Provide a list of properties for which the applicant has obtained easements, options, and/or land use agreements necessary to construct and operate the facility and a list of the additional properties for which such agreements have not been obtained.

A list of properties required for the Project are provided in **Table 1**, below.

AEP Ohio Transmission Company, Inc.

South Kenton- Westminster and North Waldo- South Kenton 138 kV Transmission Line Relocations Project 25-1022-EL-BLN

Table 1 - Property Agreements

Property Parcel Number	Agreement Type	Easement or Option Obtained (Yes/No)
041200410000	Supplemental Easement	No
041200150000	Supplemental Easement	No
041200300000	Company Affiliate Owned	N/A
041200200000	New Easement	No
041200230000	Supplemental Easement	No

The easement form exhibits provided in **Appendix C** represents the minimum rights the Company would require in order to construct, operate, and maintain these facilities.

B(9) Technical Features

Describe the following information regarding the technical features of the project:

B(9)(a) Operating characteristics, estimated number and types of structures required, and right-of-way and/or land requirements.

The transmission line is estimated to include the following:

South Kenton-Westminster

Voltage: 138kV

Conductors: 795 kcmil 26/7 DRAKE ACSR

Static Wire: (2) 7#8 Alumoweld

Insulators: Polymer ROW Width: 100 feet

Structure Type: Two (2) single circuit, steel three-pole dead ends

North Waldo-South Kenton Voltage: 138kV

Conductors: 795 kcmil 26/7 DRAKE ACSR

Static Wire: (2) 7#8 Alumoweld

Insulators: Polymer ROW Width: 100 feet

Structure Type: Two (2) single circuit, steel three-pole dead ends

One (1), single circuit, steel H-frame tangent

B(9)(b) Electric and Magnetic Fields

For electric power transmission lines that are within one hundred feet of an occupied residence or institution, the production of electric and magnetic fields during the operation of the proposed electric power transmission line.

No occupied residences or institutions are located within 100 feet of the Project.

B(9)(c) Project Cost

The estimated capital cost of the project.

The cost estimate for the proposed Project, which is comprised of applicable tangible and capital costs, is approximately \$2.8 million using a Class 4 estimate. Pursuant to the PJM OATT, the costs for this Project will be recovered in the AEP Ohio Transmission Company Inc.'s FERC formula rate (Attachment H-20 to the PJM OATT) and allocated to the AEP Zone.

B(10) Social and Ecological Impacts

The applicant shall describe the social and ecological impacts of the project:

B(10)(a) Land Use

Provide a brief, general description of land use within the vicinity of the proposed project, including a list of municipalities, townships, and counties affected.

The Project location and vicinity have historically been primarily agricultural land with scattered woodlots. An aerial photograph of the Project vicinity is provided as **Figure 2**. The Project is mapped within Buck Township in Hardin County. The Project vicinity is currently rural in nature and is comprised primarily of agricultural land used for row crops, and lesser amounts of old fields, forested land, landscaped areas, and scattered residences. The Project does not anticipate the need to clear forested land.

B(10)(b) Agricultural Land

Provide the acreage and a general description of all agricultural land, and separately all agricultural district land, existing at least sixty days prior to submission of the application within the potential disturbance area of the project.

The Project Area is characterized by agricultural land use and the existing substation property. The dominant agricultural use appears to be row crops (i.e. soy beans and corn). Approximately 3.3 acres of agricultural land is within the potential disturbance area of the Project. No Ohio Department of Agriculture easements were identified on the parcels crossed by the Project.

Based on data received from the Hardin County Auditor's office on October 20, 2025, there are no agricultural district parcels within the potential disturbance area of the Project.

AEP Ohio Transmission Company, Inc.

South Kenton- Westminster and North Waldo- South Kenton 138 kV Transmission Line Relocations Project 25-1022-EL-BLN

B(10)(c) Archaeological and Cultural Resources

Provide a description of the applicant's investigation concerning the presence or absence of significant archaeological or cultural resources that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

A cultural resource survey and report were conducted by the Company's consultant for the Project in November 2024. Correspondence from the State Historic Preservation Office ("SHPO") was received in December 2024, see **Appendix D**. The SHPO stated that that the Project will have no adverse effect on historic properties and that no further archaeological work is necessary.

B(10)(d) Local, State, and Federal Agency Correspondence

Provide a list of the local, state, and federal governmental agencies known to have requirements that must be met in connection with the construction of the project, and a list of documents that have been or are being filed with those agencies in connection with siting and constructing the project.

A summary of anticipated permits and authorizations for the Project is provided in **Table 2**, below. There are no other known local, state, or federal requirements that must be met prior to commencement of the Project.

Table 2 - Anticipated Permits

Permit/Authorization/Coordination	Agency	Date	
Storm Water Pollution Prevention Plan	Ohio Environmental Protection Agency	Expected Winter 2025-26	
	Hardin County	_	
Notice Criteria	Federal Aviation Administration	Submitted through Criteria Tool on 10/16/2025, no further action required	
Road Use Maintenance Agreement	Hardin County	Not Required by County	
Clean Water Act Section 404/401	United States Army Corps of Engineers Ohio Environmental Protection Agency	Not Applicable	
Archaeology/Architectural	Ohio Historic Preservation Office	Coordination complete 12/6/2024, no additional work required	
Threatened and Endangered Species	United States Fish and Wildlife Service	Consultation complete 6/12/2023	
Threatened and Endangered Species	Ohio Department of Natural Resources	Consultation complete 5/19/2023	

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Highway Crossing	Hardin County Anticipated filing for C Road 175, Summer 2	
Floodplain	Hardin County	Not Applicable

B(10)(e) Threatened, Endangered, and Rare Species

Provide a description of the applicant's investigation concerning the presence or absence of federal and state designated species (including endangered species, threatened species, rare species, species proposed for listing, species under review for listing, and species of special interest) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

On April 19, 2023, coordination letters were submitted to the United State Fish and Wildlife Service (USFWS) and the Ohio Department of Natural Resources (ODNR) Ohio Natural Heritage Program (ONHP) and Division of Wildlife (DOW), seeking an environmental review of the Project for potential impacts to state and/or federally protected species. ODNR and USFWS provided responses on May 19, 2023 and June 12, 2023, respectively. Copies of the agencies' responses are presented in **Appendix D**.

Table 4, in **Appendix E** lists the federal and state threatened or endangered species in the Project area.

Based on the nature of the proposed Project activities and habitat characteristics of the surrounding vicinity, construction impacts to protected species are not anticipated.

B(10)(f) Areas of Ecological Concern

Provide a description of the applicant's investigation concerning the presence or absence of areas of ecological concern (including national and state forests and parks, floodplains, wetlands, designated or proposed wilderness areas, national and state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, and wildlife sanctuaries) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation

The Company's consultant conducted a wetland and stream delineation survey in the Project study area on April 19, 2023 and August 6, 2025, and prepared an Ecological Survey Report, which is provided in **Appendix E**. The survey of the Project area identified one stream, no wetlands, and no ponds. The stream is not crossed by the proposed Project and no in-water work is proposed. The Project construction activities are not expected to result in discharge of fill in any delineated features.

Based on a review of the Protected Areas Database of the United States as well as the Conservation Easement Database, there are no state or national parks, forests, wildlife areas or mapped conservation easements in the vicinity of the Project.

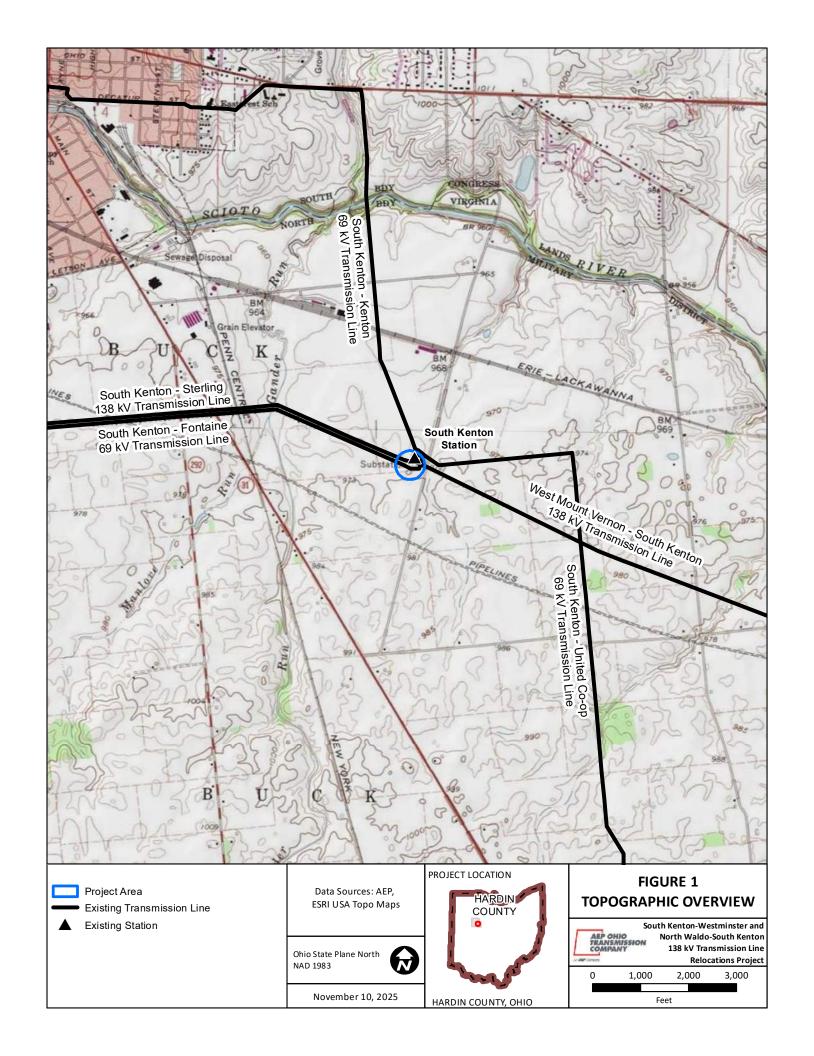
The FEMA Flood Insurance Rate Map ("FIRM") was reviewed to identify any floodplains/flood hazard areas that have been mapped within the Project Area (specifically, map number 39159C0025D). Based on this mapping, no FEMA-designated 100-year floodplains are crossed by the proposed alignment. No floodplain permits are necessary.

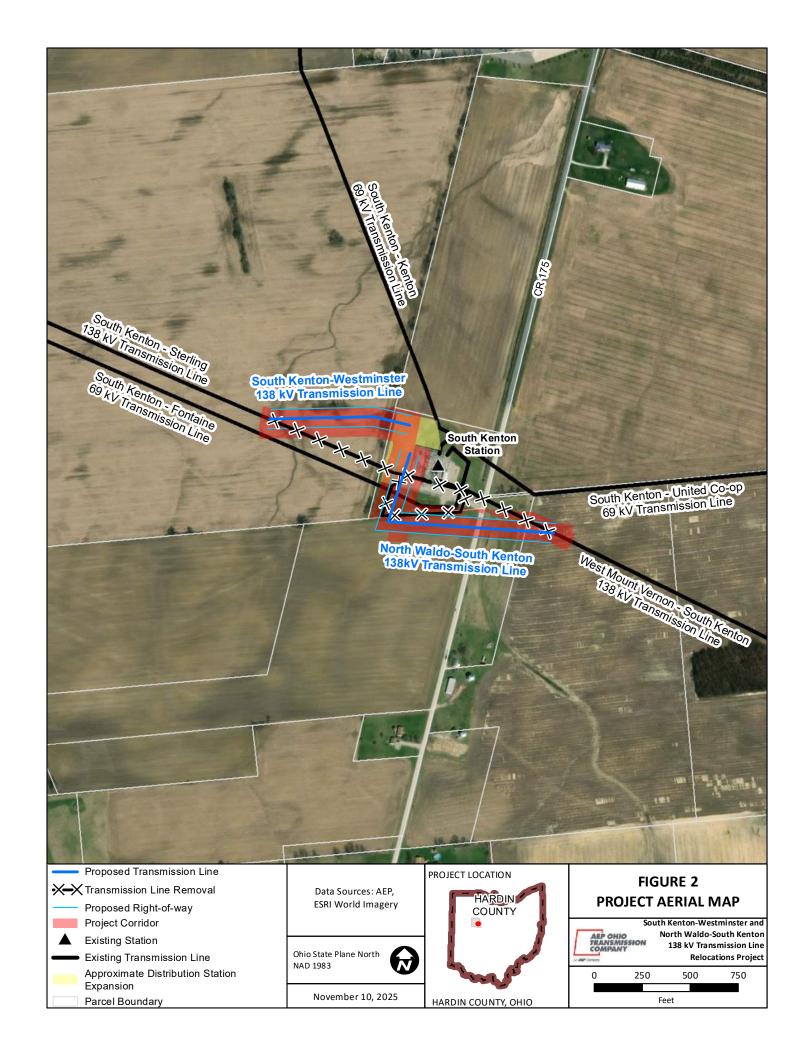
B(10)(g) Unusual Conditions

Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.

To the best of the Company's knowledge, no unusual conditions exist that would result in significant environmental, social, health, or safety impacts.

Appendix A Project Maps





Appendix B PJM Solution and Long Term Forecast Reports



Need Number: AEP-2022-OH007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 10/13/2023

Previously Presented:

Solutions Meeting 7/21/2023 Need Meeting 1/21/2022

Project Driver:

Equipment Material/Condition/Performance/Risk

Specific Assumption Reference:

AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13)

Problem Statement:

South Kenton 138/69kV

Circuit Breakers:

Breaker Age: A 1953 (138 kV), B 1952 (138 kV), E 1954 (69 kV)

Interrupting Medium: (Oil)

Fault Operations:

• Number of Fault Operations: A 42, B 49,E 26

• Manufacturer recommended Number of Operations: 10

• Additional Breaker Information: These breakers are FK-439. These breakers are oil filled without oil containment; oil filled breakers have much more maintenance required due to oil handling. Manufacture support and spare parts are not available.

Relays: Currently, 56 of the 61 relays (92% of all station relays) are in need of replacement. These relays are the electromechanical type which have significant limitations with regards to spare part availability, fault data collection, and data retention. Station also utilized legacy pilot wire schemes.

Transformers: The 138/69kV 15MVA transformer #3 & #2 (both 1962 vintage) are recommended for replacement due to short circuit strength breakdown and dielectric strength breakdown of the oil, reducing the ability of the units to withstand through fault current. These transformers have horizontal bushings which increase the difficulty of routine station maintenance. The transformers are currently operated in parallel with one another.

Operational Flexibility and Efficiency:

Transformers #2, #3, and the 138 kV bus are all in the same zone of protection due to lack of sectionalizing on the transformers.

AEP Local Plan 2023

AEP Transmission Zone M-3 Process Kenton, OH



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Need Number: AEP-2022-OH007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 10/13/2023

Solution:

• South Kenton. Rebuild the 138kV bay as a four breaker ring bus using 3000A 40kA breakers. Replace transformers two and three with a single 90MVA unit. Install a DICM and replace the EM relays. Replace the 69kV bus and breakers C and E. Estimated Cost \$12.7M (s2982.1)

 Re-terminate the East Lima - South Kenton 138 kV and South Kenton - Larue 138kV circuits into the new South Kenton ring bus. Estimated Cost \$3.64M (s2982.2)

 Re-terminate the South Kenton - Kenton #1 69kV and South Kenton - Kenton #2 69kV circuits into the station. Install fiber between South Kenton and Kenton, retire the pilot wire scheme Estimated Cost \$1.45 M (s2982.3)

• At Kenton station, replace MOABS X,Z with 69kV 3000A 40kA breakers. Install a DICM Estimated Cost \$3.80M (s2982.4)

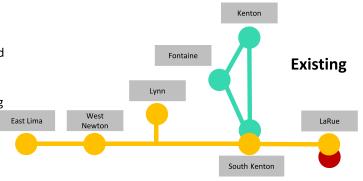
Upgrade telecom equipment at Rangeline and Gunn Road stations Estimated cost \$94.4K (s2982.5)

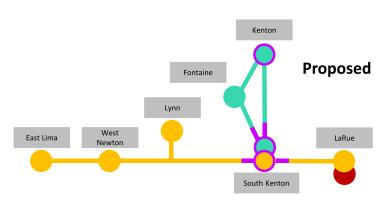
Total Estimated Transmission Cost: \$21.70M

Projected In-Service: 06/01/2025 Supplemental Project ID: s2982.1-.5

Project Status: Scoping

AEP Transmission Zone M-3 Process South Kenton Upgrades Project





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

	SUPPORTING	Steel
9	STRUCTURES:	Otoci
	PARTICIPATION WITH	N/A
10	OTHER UTILITIES	
	PURPOSE OF THE	
	PLANNED	Rebuild aging infrastructure; improve system reliability
11	TRANSMISSION LINE	
	CONSEQUENCES OF	
	LINE CONSTRUCTION	Potential for increased transmission line outages
	DEFERMENT OR	
12	TERMINATION	
	MISCELLANEOUS:	
	LINE NAME AND	
1	NUMBER:	La Rue - South Kenton 138 kV (s2982 TP2021591)
-	POINTS OF ORIGIN AND	
2	TERMINATION	La Rue - South Kenton INTERMEDIATE STATIONS - Wildcreek Switch
	RIGHTS-OF-WAY:	
	LENGTH / WIDTH /	-0.01 Mi / 100 ft / 1 circuit /0.20 mi of line world)
3	CIRCUITS	~9.91 Mi / 100 ft / 1 circuit (0.30 mi of line work)
3	VOLTAGE: DESIGN /	
۱ ۵		138 / 138 kV
4	OPERATE	
	APPLICATION FOR	2025
	CERTIFICATE:	
6	CONSTRUCTION:	2026 - 2027
		\$1.48 M
<u> 7</u>	CAPITAL INVESTMENT:	¥ · · · · · · · · · · · · · · · · · · ·
	PLANNED	N/A
8	SUBSTATION:	
	SUPPORTING	Steel
9	STRUCTURES:	0.000
	PARTICIPATION WITH	N/A
	OTHER UTILITIES	TW/
	PURPOSE OF THE	
	PLANNED	Reterminate South Kenton back into the South Kenton - La Rue 138 kV line.
11	TRANSMISSION LINE	
	CONSEQUENCES OF	
	LINE CONSTRUCTION	South Kenton won't be connected after being rebuilt.
	DEFERMENT OR	
12	TERMINATION	
13	MISCELLANEOUS:	
	LINE NAME AND	Grace South Pokoby 60 kV (c2701 TD2021507)
_ 1	NUMBER:	Grace - South Rokeby 69 kV (s2791 TP2021597)
	POINTS OF ORIGIN AND	Grace South Pokoby INTERMEDIATE STATIONS Deposition
2	TERMINATION	Grace - South Rokeby INTERMEDIATE STATIONS - Pennsville
	RIGHTS-OF-WAY:	
	LENGTH / WIDTH /	~12.31 mi / 60 ft / 1 circuit
3	CIRCUITS	
	VOLTAGE: DESIGN /	20 1 1 / / 20 1 1 /
4	OPERATE	69 kV / 69 kV
	APPLICATION FOR	
5	CERTIFICATE:	N/A
<u> </u>		I .

	PLANNED	
8	SUBSTATION:	N/A
	SUPPORTING	
9	STRUCTURES:	Steel
40	PARTICIPATION WITH	N/A
10	OTHER UTILITIES PURPOSE OF THE	N/A
	PLANNED	
11	TRANSMISSION LINE	Rebuild aging infrastructure; improve system reliability
-		nosana aging ilinasa astars, iliprovo system ranasiniy
	CONSEQUENCES OF	
	LINE CONSTRUCTION	
	DEFERMENT OR	
	TERMINATION	Potential for increased transmission line outages
13	MISCELLANEOUS:	N/A
	LINE NAME AND	
1	NUMBER:	Ohio Central - Coshocton Junction 138 kV (s3140 TP2021577)
_	POINTS OF ORIGIN AND	C. II. C. I. I. OLI C. I. I. W. I. C. I. I. WITERNAFRIATE CTATIONS. N./A.
	TERMINATION RIGHTS-OF-WAY:	South Coshocton - Ohio Central - West Coshocton INTERMEDIATE STATIONS - N/A
	LENGTH / WIDTH /	~20.4 total mi (~5.7 mi single circuit 138 kV & ~14.7 mi double circuit 138 kV) / 100ft / 1 & 2
3	CIRCUITS	circuit (Work consist of ~0.1 mi of double circuit retermination)
	VOLTAGE: DESIGN /	(
4	OPERATE	138 / 138 kV
	APPLICATION FOR	
_	CERTIFICATE:	2024
6	CONSTRUCTION:	2025
١_	0 4 DIT 41 INN/FOTMENT	
7	CAPITAL INVESTMENT:	\$0.28 M
١.	PLANNED SUBSTATION:	N/A
⊢°	SUPPORTING	N/A
۹	STRUCTURES:	Steel
۳	PARTICIPATION WITH	
10	OTHER UTILITIES	N/A
	PURPOSE OF THE	
	PLANNED	Reconfigures the Ohio Central - Coshocton Junction into the South Coshocton- Black
11	TRANSMISSION LINE	Diamond line
	00105011511050.05	
	CONSEQUENCES OF LINE CONSTRUCTION	
	DEFERMENT OR	
12	TERMINATION	Potential for increased transmission line outages
	MISCELLANEOUS:	N/A
	LINE NAME AND	
1	NUMBER:	East Lima - South Kenton 138 kV (s2982 TP2021591)
	POINTS OF ORIGIN AND	East Lima - South Kenton INTERMEDIATE STATIONS - West Newton Switch
2	TERMINATION	East Emila Goddi Romon in Lettine Direction of a vest inewton ownton
	RIGHTS-OF-WAY:	~30.88 mi (22.5 mi single circuit & 8.38 mi double circuit) / 100 ft / 1 circuit (0.10 mi of line
,	LENGTH / WIDTH / CIRCUITS	work)
3	VOLTAGE: DESIGN /	
4	OPERATE	138 / 138 kV
	APPLICATION FOR	2005
5	CERTIFICATE:	2025
_6	CONSTRUCTION:	2026 - 2027
		\$2.16 M
7	CAPITAL INVESTMENT:	ΨΕ. ΤΟ ΙΝΙ
_	PLANNED	N/A
8	SUBSTATION:	
_	SUPPORTING STRUCTURES:	Steel
'	PARTICIPATION WITH	
10	OTHER UTILITIES	N/A
13	PURPOSE OF THE	
	PLANNED	Reterminate South Kenton back into the South Kenton - East Lima 138 kV line.
11	TRANSMISSION LINE	, , , , , , , , , , , , , , , , , , ,
		-

	1		
	CONSEQUENCES OF		
	LINE CONSTRUCTION	South Kenton won't be connected after being rebuilt.	
	DEFERMENT OR		
	TERMINATION		
13	MISCELLANEOUS:	N/A	
	LINE NAME AND	Beacon - Darby 345 kV #1 (s3441.2 TP2022004)	
1	NUMBER:	Boddon Buildy one KV III (Bottinia in Edition)	
	POINTS OF ORIGIN AND	Beacon - Darby INTERMEDIATE STATIONS - N/A	
2	TERMINATION	Beacon - Barby IIVI ENWEBIATE OTATIONO - N/A	
	RIGHTS-OF-WAY:		
	LENGTH / WIDTH /	~0.06 mi / 150 ft / 1 circuit	
3	CIRCUITS		
	VOLTAGE: DESIGN /	345 kV / 345 kV	
4	OPERATE	343 KV / 343 KV	
	APPLICATION FOR	2024	
5	CERTIFICATE:	2024	
6	CONSTRUCTION:	2024	
		00.4.14	
7	CAPITAL INVESTMENT:	\$0.1 M	
	PLANNED		
8	SUBSTATION:	Beacon	
	SUPPORTING		
9	STRUCTURES:	Steel	
	PARTICIPATION WITH		
10	OTHER UTILITIES	N/A	
	PURPOSE OF THE		
	PLANNED	New 345 kV extension to serve customer	
11	TRANSMISSION LINE	TYEW 545 KV extension to serve customer	
-	TRANSMISSION EINE		
	CONSEQUENCES OF		
	LINE CONSTRUCTION	Unable to provide requested service to customer	
	DEFERMENT OR	Oriable to provide requested service to customer	
40	TERMINATION		
	MISCELLANEOUS:	NI/A	
13	LINE NAME AND	N/A	
4	NUMBER:	Beacon - Darby 345 kV #2 (s3441.2 TP2022004)	
-	POINTS OF ORIGIN AND		
		D D I INTERMEDIATE OTATIONIC NIA	
		Beacon - Darby INTERMEDIATE STATIONS - N/A	
-	TERMINATION	Beacon - Darby INTERMEDIATE STATIONS - N/A	
	RIGHTS-OF-WAY:	·	
	RIGHTS-OF-WAY: LENGTH / WIDTH /	~0.06 mi / 150 ft / 1 circuit	
3	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS	·	
3	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS VOLTAGE: DESIGN /	·	
3	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS VOLTAGE: DESIGN / OPERATE	~0.06 mi / 150 ft / 1 circuit	
3	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS VOLTAGE: DESIGN / OPERATE APPLICATION FOR	~0.06 mi / 150 ft / 1 circuit	
3 4 5	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS VOLTAGE: DESIGN / OPERATE APPLICATION FOR CERTIFICATE:	~0.06 mi / 150 ft / 1 circuit 345 kV / 345 kV 2024	
3 4 5	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS VOLTAGE: DESIGN / OPERATE APPLICATION FOR	~0.06 mi / 150 ft / 1 circuit 345 kV / 345 kV	
3 4 5 6	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS VOLTAGE: DESIGN / OPERATE APPLICATION FOR CERTIFICATE: CONSTRUCTION:	~0.06 mi / 150 ft / 1 circuit 345 kV / 345 kV 2024	
3 4 5 6	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS VOLTAGE: DESIGN / OPERATE APPLICATION FOR CERTIFICATE: CONSTRUCTION: CAPITAL INVESTMENT:	~0.06 mi / 150 ft / 1 circuit 345 kV / 345 kV 2024	
3 4 5 6	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS VOLTAGE: DESIGN / OPERATE APPLICATION FOR CERTIFICATE: CONSTRUCTION: CAPITAL INVESTMENT: PLANNED	~0.06 mi / 150 ft / 1 circuit 345 kV / 345 kV 2024	
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Appendix C Form Easements

Line	Name:
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Line No.: Easement No.:

EASEMENT AND RIGHT OF WAY

On this ___ day of ______, 2025, in consideration of Ten and NO/100 Dollars (\$10.00), and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and the covenants hereinafter set forth, , whose address is , ("Grantor"), whether one or more persons, hereby grants, sells, conveys, and warrants to **Ohio Power Company**, a(n) Ohio corporation, a unit of American Electric Power, whose principal business address is 1 Riverside Plaza, Columbus, Ohio 43215, ("AEP") and its successors, assigns, lessees and tenants a permanent easement and right of way ("Easement"), for electric transmission, distribution, and communication lines and appurtenant equipment and fixtures, being, in, on, over, under, through and across the following described lands of the Grantor, situated in the State of Ohio, Hardin County.

Grantor claims title by in the Hardin County Recorder's Office.

Auditor/Key/Tax Number:

The Easement Area is more fully described and depicted on Exhibit "A", a copy of which is attached hereto and made a part hereof ("Easement Area").

GRANTOR FURTHER GRANTS AEP THE FOLLOWING RIGHTS:

The right, now or in the future, to construct, reconstruct, operate, maintain, alter, improve, extend, inspect and patrol (by ground or air), protect, repair, remove, replace, upgrade and relocate within the Easement Area, poles, towers, and structures, made of wood, metal, concrete or other materials, and crossarms, guys, anchors, grounding systems, and all other appurtenant equipment and fixtures, and to string conductors, wires and cables; together with the right to add to said facilities from time to time, and the right to do anything necessary, useful or convenient for the enjoyment of the Easement herein granted.

The right, in AEP's discretion, now or in the future, to cut down, trim, remove, and otherwise control, using herbicides or tree growth regulators or other means, any and all trees, overhanging branches, vegetation or brush situated within the Easement Area. AEP shall also have the right to cut down, trim or remove trees situated on lands of Grantor which adjoin the Easement Area when

in the opinion of AEP those trees may endanger the safety of, or interfere with the construction, operation or maintenance of AEP's facilities or ingress or egress to, from or along the Easement Area.

The right of unobstructed ingress and egress, at any and all times, over, across and along and upon the Easement Area, and across the adjoining lands of Grantor as may be necessary for access to and from the Easement Area for the above referenced purposes.

THIS GRANT IS SUBJECT TO THE FOLLOWING CONDITIONS:

The Grantor reserves the right to cultivate annual crops, pasture, construct fences (provided gates are installed that adequately provide AEP the access rights conveyed herein) and roads or otherwise use the lands encumbered by this Easement in any way not inconsistent with the rights herein granted. In no event, however, shall Grantor, its heirs, successors, and assigns plant or cultivate any trees or place, construct, install, erect or permit any temporary or permanent building, structure, improvement or obstruction including but not limited to, storage tanks, billboards, signs, sheds, dumpsters, light poles, water impoundments, above ground irrigation systems, swimming pools or wells, or permit any alteration of the ground elevation, over, or within the Easement Area. AEP may, at Grantor's cost, remove any structure or obstruction if placed within the Easement Area, and may re-grade any alterations of the ground elevation within the Easement Area.

AEP agrees to repair or pay the Grantor for actual damages sustained by Grantor to crops, fences, gates, irrigation and drainage systems, drives, or lawns that are permitted herein, when such damages arise out of AEP's exercise of the rights herein granted.

The failure of AEP to exercise any of the rights granted herein, or the removal of any facilities from the Easement, shall not be deemed to constitute an abandonment or waiver of the rights granted herein.

This instrument contains the complete agreement, expressed or implied between the parties herein and shall inure to the benefit of and be binding on their respective successors, assigns, heirs, executors, administrators, lessees, tenants, and licensees.

This Easement may be executed in counterparts, each of which shall be deemed an original, but all of which, taken together, shall constitute one and the same instrument.

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Line	Nam	ie:	
Line	No.:	Easement	No.:

SUPPLEMENTAL EASEMENT AND RIGHT OF WAY

On this ___ day of _____, 2025, , whose address is , ("Grantor"), whether one or more persons, owns an interest in a tract of real property that is more particularly described lands of the Grantor, situated in the State of Ohio, Hardin County, in that certain document, dated recorded in of the real property records of Hardin County, Ohio, and such tract is subject to easements and rights-of-way granted in favor of Ohio Power Company.

Ohio Power Company, a(n) Ohio corporation, a unit of American Electric Power, whose principal business address is 1 Riverside Plaza, Columbus, Ohio 43215, ("AEP") is the current owner and holder of the rights, title, and interest, or a portion thereof, granted in or arising under that certain right of way and easement, dated, and recorded in, of the official records of County, Ohio (the "Original Easement").

NOW, THEREFORE, in consideration of the sum of Ten and NO/100 Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantor hereby grants, conveys and warrants this Supplemental Easement and Right of Way ("Easement") to AEP for electric transmission, distribution, and communication lines and appurtenant equipment and fixtures, being, in, on, over, under, through and across to supplement the Original Easement insofar as it encumbers such tract of real property owned by Grantor as more particularly described above.

Auditor/Key/Tax Number:

The location, width, and boundaries of the easement area are hereby revised, modified, and clarified to be as described and depicted on Exhibit "A", attached hereto and made a part hereof ("Easement Area").

The Easement is also supplemented by the addition of the following language:

AEP, its successors and assigns, are granted the right to construct, reconstruct, operate, maintain, alter, inspect and patrol (by ground or air), protect, repair, replace, renew, upgrade, relocate within the Easement Area, remove and replace poles, towers, and structures, made of wood,

metal, concrete or other materials, including crossarms, guys, anchors, anchoring systems, grounding systems, underground conduits, ducts, vaults, transformers, pedestals, risers, pads, communications facilities, and all other appurtenant equipment and fixtures, and to string conductors, wires and cables. The electric facilities may consist of a variable number of towers, poles, wires, guys, anchors and associated fixtures, including the right to enlarge, and may transmit electricity of any voltage or amperage, together with the right to add to said facilities from time to time, and the right to do anything necessary, useful or convenient for the enjoyment of the Easement Area herein granted, together with the privilege of removing at any time any or all of said facilities erected on the Easement Area.

AEP and its successors and assigns, shall have the right, in AEP's reasonable discretion, to cut down, trim, and otherwise control, using herbicides or tree growth regulators, or other means, and at AEP's option, to remove from the Easement Area any and all trees, overhanging branches, vegetation, brush, including all root systems or other obstructions. AEP shall also have the right to cut down, trim, remove, and otherwise control trees situated on lands of the Grantor which adjoin the Easement Area, when in the reasonable opinion of AEP those trees may endanger the safety of, or interfere with the construction, operation or maintenance of AEP's facilities or ingress or egress to, from or along the Easement Area.

AEP and its successors and assigns are granted the right of unobstructed ingress and egress, at any and all times, on, over, across, along and upon the Easement Area, and across the adjoining lands of Grantor as may be reasonably necessary to access the Easement Area for the above referenced purposes.

In no event shall Grantor, its heirs, successors, and assigns plant or cultivate any trees or place, construct, install, erect or permit any temporary or permanent building, structure, improvement or obstruction including but not limited to, storage tanks, billboards, signs, sheds, dumpsters, light poles, water impoundments, above ground irrigation systems, swimming pools or wells, or permit any alteration of the ground elevation, over or within the Easement Area. AEP may, at Grantor's cost, remove any structure or obstruction if placed within the Easement Area and may re-grade any alterations of the ground elevation within the Easement Area. AEP shall repair or pay Grantor for actual damages to growing crops, fences, gates, field tile, drainage ways, drives, or lawns caused by AEP in the exercise of the rights herein granted.

The failure of AEP to exercise any of the rights granted herein, including but not limited to the removal of any obstructions from the Easement Area, shall not be deemed to constitute a waiver of the rights granted herein and the removal of any facilities from the Easement Area shall not be deemed to constitute a permanent abandonment or release of the rights granted herein.

Except as modified by this Supplemental Easement and Right of Way, all terms and provisions of the Original Easement and all rights arising in connection with the Original Easement shall remain in full force and effect, and the Original Easement shall keep its priority in title as of the date of its recording. Those provisions and rights are expressly ratified, reaffirmed by and incorporated within this Supplemental Easement and Right of Way. The Original Easement along with this

Supplemental Easement and Right of Way shall for all purposes function as a single instrument, however, to the extent any terms or provisions of the Original Easement conflict with, limit or are inconsistent with any term or provision of the Supplemental Easement and Right of Way, the terms and provisions of this Supplemental Easement and Right of Way shall control. Nothing herein will in any manner vary, change, modify, or restrict the rights and privileges that AEP may have acquired through any instrument other than the Original Easement or by any other means.

The terms and conditions as supplemented by this instrument, are the complete agreement, expressed or implied between the parties hereto and shall inure to the benefit of and be binding on their respective successors, assigns, heirs, executors, administrators, lessees, tenants, licensees, and legal representatives.

This instrument may be executed in counterparts, each of which will be deemed an original, but all of which taken together will constitute one and the same instrument.

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Appendix D Agency Correspondence



In reply, refer to 2024-HAR-62952

December 6, 2024

Ryan J. Weller Weller & Associates, Inc. 1395 West Fifth Avenue Columbus, Ohio 43212 rweller@wellercrm.com

RE: South Kenton Station Upgrades Project, Buck Township, Hardin County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received on November 8, 2024, regarding the proposed South Kenton Station Upgrades Project in Buck Township, Hardin 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 and the Ohio Power Siting Board (OPSB) rules for siting this project (OAC 4906-4 & 4906-5). 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 following comments pertain to the *Phase I Cultural Resource Management Investigations for the 2.7 ha (6.6 ac) South Kenton Station Upgrades Project in Buck Township, Hardin County, Ohio* by Ryan J. Weller and Scott McIntosh (Weller & Associates, Inc. 2024). This submission addresses proposed upgrades to the existing South Kenton Station facility in Hardin County, Ohio. A literature review, visual inspection, surface collection and subsurface investigations (shovel probe and shovel test unit excavation) were conducted as part of these investigations. Disturbance related to the construction of the existing station facility was noted in portions of the project area. There were no previously documented archaeological sites located within the project area and no new archaeological sites were identified through these investigations. Our office agrees that no additional archaeological survey is needed.

A literature review and field survey for architectural resources were conducted as part of the investigations. One (1) resource fifty years of age or older was identified in the Area of Potential Effects (APE). It is Weller's recommendation that this resource is not eligible for listing in the National Register of Historic Places (NRHP). Our office agrees with Weller's recommendation of eligibility. Therefore, we agree that there will be no effect on historic resources as a result of the project.

Based on the information provided, we agree that the project, as proposed, will have no effect on historic properties. No further coordination with this office is necessary, unless the project changes or unless new or additional cultural resources are discovered during the implementation of this project. In such a situation, this office should be contacted. If you have any questions, please contact me by e-mail at cgullett@ohiohistory.org, or Ms. Joy Williams at jwilliams@ohiohistory.org. Thank you for your cooperation.

Sincerely,

Catherine Gullett, Project Reviews Coordinator - Archaeology

Resource Protection and Review State Historic Preservation Office

RPR Serial No. 1105693



Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Fax: (614) 267-4764

Office of Real Estate John Kessler, Chief 2045 Morse Road – Bldg. E-2 Columbus, OH 43229 Phone: (614) 265-6621

May 19, 2023

Daniel Godec Stantec Consulting Services, Inc. 10200 Alliance Road, Suite 300 Cincinnati OH 45242

Re: 23-0437; South Kenton-North Waldo 138 kV Line Rebuild

Project: The proposed project involves rebuilding a 138 kV Line from Kenton to North Waldo.

Location: The proposed project is located in Buck & Dudley Townships of Hardin County, and Bowling Green, Green Camp, Pleasant, & Richland Townships of Marion 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:

Least Darter (*Etheostoma microperca*), SC Elktoe (*Alasmidonta marginata*), SC Creek Heelsplitter (*Lasmigona compressa*), SC Rainbow (*Villosa iris*), SC

The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980. Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; P = state species of concern; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; $P = \text{st$

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 portion of the project west of Township Road 199 in Hardin County is within the vicinity of records for the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species. Because presence of state endangered bat species has been established in this area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

In addition, 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 bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. The DOW recommends tree 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 \geq 20 if possible. However, if trees are present within this area, (outside of the area delineated above) 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.

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 "<u>RANGE-WIDE INDIANA BAT & NORTHERN LONG-EARED BAT SURVEY GUIDELINES</u>." 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 clubshell (*Pleurobema clava*), a state endangered and federally endangered mussel, the rayed bean (*Villosa fabalis*), a state endangered and federally endangered mussel, the purple lilliput (*Toxolasma lividus*), a state endangered mussel, and the pondhorn (*Uniomerus tetralasmus*), a state threatened mussel. This project must not have an impact on native mussels. This applies to both listed and non-listed species, as all species of mussel are protected in Ohio. Per the Ohio Mussel Survey Protocol (2022), all Group 2, 3, and 4 streams (Appendix A) require a mussel survey. Per the Ohio Mussel Survey Protocol, Group 1 streams (Appendix A) and unlisted streams with a watershed of 5 square miles or larger above the point of impact should be assessed using the Reconnaissance Survey for Unionid Mussels

(Appendix B) to determine if mussels are present. Mussel surveys may be recommended for these streams as well. Therefore, if in-water work is planned in any stream that meets any of the above criteria, the DOW recommends the applicant provide information to indicate no mussel impacts will occur. If this is not possible, the DOW recommends a professional malacologist conduct a mussel survey in the project area. If mussels that cannot be avoided are found in the project area, the DOW recommends a professional malacologist collect and relocate the mussels to suitable and similar habitat upstream of the project site. Mussel surveys and any subsequent mussel relocation should be done in accordance with the Ohio Mussel Survey Protocol. If there is no in-water work proposed, impacts to mussels are not likely.

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 aquatic species.

The project is within the range of the eastern massasauga (*Sistrurus catenatus*), a state endangered and federally threatened snake species. The eastern massasauga uses a range of habitats including wet prairies, fens, and other wetlands, as well as drier upland habitat. The DOW recommends that an approved herpetologist conducts a habitat suitability survey to determine if suitable habitat is present within the project area. If suitable habitat is determined to be present; the DOW recommends that a presence/absence survey be conducted, or an avoidance/minimization plan be developed and implemented by the approved herpetologist. A list of approved herpetologists has been provided for your convenience.

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, the project is not likely to impact this species.

The project is within the range of the trumpeter swan (*Cygnus buccinator*), a state threatened bird. Trumpeter swans prefer large marshes and lakes ranging in size from 40 to 150 acres. They like shallow wetlands one to three feet deep with a diverse mix of plenty of emergent and submergent vegetation and open water. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through June 15. If this habitat will not be impacted, this project is not likely to have an impact on this species.

The project is within the range of the upland sandpiper (*Bartramia longicauda*), a state endangered bird. Nesting upland sandpipers utilize dry grasslands including native grasslands, seeded grasslands, grazed and ungrazed pasture, hayfields, and grasslands established through the Conservation Reserve Program (CRP). 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 type of habitat will not be impacted, the 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 mike.pettegrew@dnr.ohio.gov if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator

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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



June 12, 2023

Project Code: 2023-0068762

Dear Mr. Godec:

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, endangered, and proposed species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

Federally Threatened and Endangered Species: The endangered Indiana bat (Myotis sodalis) and northern long-eared bat (Myotis septentrionalis) occur throughout the State of Ohio. The Indiana bat and northern long-eared bat may be found wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed that may also include adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, woodlots, fallow fields, and pastures. Roost trees for both species include live and standing dead trees ≥3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities. These roost trees may be located in forested habitats as well as linear features such as fencerows, riparian forests, and other wooded corridors. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern longeared bats hibernate in caves, rock crevices and abandoned mines.

<u>Federally Proposed Species</u>: On September 14, 2022, the Service proposed to list the tricolored bat (*Perimyotis subflavus*) as endangered under the ESA. The bat faces extinction due to the impacts of white-nose syndrome, a deadly disease affecting cave-dwelling bats across the continent. During spring, summer, and fall, this species roosts primarily among leaf clusters of live or recently dead trees, emerging at dusk to hunt for insects over waterways and forest edges. While white-nose syndrome is by far the most serious threat to the tricolored bat, other threats now have an increased significance due to the dramatic decline in the species' population. These threats include disturbance to bats in roosting, foraging, commuting, and over-wintering habitats. Mortality due to collision with wind turbines, especially during migration, has also been documented across their range. Conservation measures for the Indiana bat and northern long-eared bat will also help to conserve the tricolored bat.

Seasonal Tree Clearing for Federally Listed Bat Species: Should the proposed project site contain trees ≥ 3 inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥ 3 inches dbh cannot be avoided, we recommend removal of any trees ≥ 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats.

If implementation of this seasonal tree cutting recommendation is not possible, a summer presence/absence survey may be conducted for Indiana bats and northern long-eared bats. If Indiana bats and northern long-eared bats are not detected during the survey, then tree clearing may occur at any time of the year. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Ohio Field Office. Surveyors must have a valid federal permit. Please note that in Ohio summer mist net surveys may only be conducted between June 1 and August 15.

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.

Due to the project type, size, and location, 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.

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,

Patrice Ashfield

Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW Eileen Wyza, ODNR-DOW

Appendix E Ecological Survey Report



South Kenton Station Expansion Project

Ecological Survey Report

Prepared for:

AEP Ohio Transmission Company, Inc. 8600 Smiths Mill Road New Albany, OH 43054

Prepared by:

Stantec Consulting Services, Inc. 10200 Alliance Road, Suite 300 Blue Ash, OH 45242

August 15, 2025

Sign-off Sheet

This document entitled South Kenton Station Expansion Project Ecological Survey Report was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of AEP Ohio Transmission Company, Inc. Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by Kata Bonnan

(signature)

Kate Bomar

Reviewed by

(signature)

Aaron Kwolek

Reviewed by

(signature)

Dan Godec

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Introduction August 15, 2025

1.0 INTRODUCTION

AEP Ohio Transmission Company, Inc. (AEP) is proposing construction activities associated with the South Kenton Station Expansion Project (the Project). AEP plans to conduct construction activities to rebuild/expand the existing South Kenton 138 kV substation (South Kenton Station) (Figure 1, Appendix A). The Project area was surveyed for wetlands, waterbodies, open water features, and potential threatened, endangered, and rare species habitat by Stantec Consulting Services Inc. (Stantec) biologists on April 19, 2023, and August 6, 2025. The approximate locations of features located up to 50 feet outside of the Project area were also recorded during the field surveys, where landowner access was permitted. However, no data forms were collected on features that did not extend into the Project area. The approximate locations of these features are shown on the Figure 2 map in Appendix A as "approximate" wetlands, streams (waterways), open waters, and upland drainage features.

Methods August 15, 2025

2.0 METHODS

2.1 WETLAND DELINEATION

Prior to completing the field surveys, a desktop review of the Project area was conducted using U.S. Geological Survey (USGS) topographic mapping, National Wetlands Inventory (NWI) mapping, U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil survey data, and aerial imagery mapping. Stantec completed a wetland delineation study in accordance with the Corps of Engineers Wetlands Delineation Manual (USACE 1987), the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) (USACE 2010). Wetland categories were classified using the Ohio Rapid Assessment Method (ORAM) for Wetlands Version 5.0 (Mack 2001).

2.2 STREAM DELINEATION

Streams that demonstrated a continuously defined channel (bed and bank), ordinary high-water mark (OHWM), and the disturbance of terrestrial vegetation were delineated within the Project area, per the protocols outlined in the USACE's Guidance on Ordinary High Water Mark Identification (Regulatory Guidance Letter, No. 05-05) (USACE 2005). Delineated streams were classified as ephemeral, intermittent, or perennial per definitions in the Federal Register/Vol. 67, No. 10 (USACE 2002). Functional assessment of streams identified within the Project area was based on completion of the Ohio Environmental Protection Agency's (OEPA) Headwater Habitat Evaluation Index (HHEI; OEPA 2020) and/or Qualitative Habitat Evaluation Index (QHEI; OEPA 2006) data forms. The centerline of each waterway and/or the OHWM of each waterway was identified and surveyed using a handheld sub-meter accuracy global positioning system (GPS) unit and mapped with geographic information system (GIS) software. Additionally, the locations of ponds/open water features and upland drainage features (which lacked a continuously defined bed and bank/OHWM) identified within the Project area were also recorded with a sub-meter accuracy GPS unit during the field surveys.

2.3 RARE SPECIES

Prior to conducting the field surveys, Stantec contacted the Ohio Department of Natural Resources (ODNR) and the U.S. Fish and Wildlife Service (USFWS) for information regarding rare, threatened, or endangered species and their habitats of concern within the vicinity of the Project area (Appendix B – Agency Correspondence). To assess potential impacts to rare, threatened, or endangered species, Stantec scientists conducted a pedestrian reconnaissance of the proposed Project area, collected information on existing habitats within the Project area, and assessed the potential for these habitats to be used by federally listed or state-listed species that have the potential to occur within Hardin County.

Results August 15, 2025

3.0 RESULTS

3.1 TERRESTRIAL HABITAT

Stantec completed field surveys for threatened and endangered species or their habitats on April 19, 2023, and August 6, 2025. Figure 3 (Appendix A) shows the vegetation communities/habitats and land cover types identified within the Project area and the locations of any identified rare, threatened, or endangered species habitat observed within the Project area during the time of the habitat assessment surveys. Representative photographs of the vegetation communities/habitats and land cover types identified within the Project area are included in Appendix C of this report (photo locations are shown on Figure 3, Appendix A). Information regarding the vegetation communities/habitats/land cover types identified within the Project area is provided in Table 1.

Table 1. Vegetation Communities and Land Cover Types Found within the South Kenton Station Expansion Project Area, Hardin County, Ohio

Vegetation Communities and Land Cover Types within the Project Area	Degree of Human-Related Ecological Disturbance	Unique, Rare, or High Quality?	Approximate Acreage Within Project Area
Agricultural Land	Extreme Disturbance/Ruderal Community dominated by planted row crop species such as corn (Zea mays), and soybean (Glycine max).	No	8.20
Maintained Lawn	Extreme Disturbance/Ruderal Community (dominated by planted non-native species, opportunistic invaders, and/or native highly tolerant taxa). Common plant species included common dandelion (Taraxacum officinale), white clover (Trifolium repens), narrowleaf plantain (Plantago lanceolata), tall fescue (Schedonorus arundinaceus), and perennial ryegrass (Lolium perenne).	No	3.43
Existing Road	Extreme Disturbance/existing paved road or other paved area (little to no vegetation is present in these habitats).	No	0.29
Industrial Land	Extreme Disturbance/Ruderal Community (little to no vegetation is present in these habitats).	No	1.55
New Field	Extreme Disturbance/Ruderal Community. Common plant species included tall fescue, smooth brome (Bromus inermis), frost aster (Symphotrichum pilosum), ticktrefoil (Desmodium sp.), eastern poison ivy (Toxicodendron radicans),	No	1.05

Results August 15, 2025

Vegetation Communities and Land Cover Types within the Project Area	Degree of Human-Related Ecological Disturbance	Unique, Rare, or High Quality?	Approximate Acreage Within Project Area
	orchardgrass (Dactylis glomerata), and Queen Anne's lace (Daucus carota).		
Mixed Early Successional/Second Growth Deciduous Forest	Moderate Disturbance (mixed communities of herbaceous, shrub, and canopy strata of varying quality). Dominant species included Amur honeysuckle (Lonicera maackii), black walnut (Juglans nigra), white oak (Quercus alba), prickly ash (Zanthoxylum americanum), and white mulberry (Morus alba).	No	0.24
		TOTAL	14.76

3.2 WETLANDS

Stantec completed field surveys for wetlands within the Project area and evaluated three wetland determination sample points on April 19, 2023, and August 6, 2025. As a result of the field surveys, Stantec did not identify any wetlands within the Project area. Figure 2 (Appendix A) shows the locations of the wetland determination sample points evaluated by Stantec within the Project area. Representative photographs of the wetland determination sample point locations are included in Appendix C of this report (photo locations are shown on Figure 2, Appendix A). Completed wetland determination data forms are included in Appendix D. A summary of the disposition of NWI-mapped wetlands within the Project area is provided in Table 2.

Table 2. Summary of NWI Disposition within the South Kenton Station Expansion Project Area, Hardin County, Ohio

NWI Code	NWI Description	Figure 2 Page Number	Related Field Inventoried Resource(s)	Comments
R4SBC	Riverine, intermittent, streambed, seasonally flooded	1	Stream 1	Stream 1 was delineated within the mapped NWI feature. The completed HHEI and QHEI data forms for this stream are provided in Appendix D. Representative photographs are available in Appendix C.

Results August 15, 2025

3.3 STREAMS

Stantec completed field surveys for streams (waterways) within the Project area on April 19, 2023, and August 6, 2025. One unnamed intermittent (Stream 1) was identified within the Project area. Figure 2 (Appendix A) shows the location of the stream identified by Stantec within the Project area and representative photographs of the stream are included in Appendix C of this report (photo locations are shown on Figure 2, Appendix A). Completed HHEI and QHEI data forms for Stream 1 are included in Appendix D. Information regarding the identified stream is provided in Table 3.

Table 3. Summary of Stream Resources Found within the South Kenton Station Expansion Project Area, Hardin County, Ohio

	Loc	Location						ı	Field Evaluation					posed pacts
Stream ID	Latitude	Longitude	Stream Type	Stream Name ¹	Delineated Length (feet)	Bankfull Width (feet)	OHWM Width (feet)	Method	Score ^{2,3}	Category/ Rating/ OAC Use Designation 2.3,4	Ohio EPA 401 Eligibility	Stream Crossing?	Fill Type	Area (acre)
Stream 1	40.623549	-83.579418	Intermittent	UNT to Scioto River	250	5	2	HHEI/ QHEI	71/44.5	Class III PHW/Fair	Eligible	TBD⁵	TBD ⁵	TBD⁵
				TOTAL	250								TOTAL	TBD⁵

UNT = Unnamed Tributar

²Based on the designated use evaluation presented in the Field Methods for Evaluating Primary Headwater Habitat Streams in Ohio, Version 4.0 (OEPA 2020).

Based on the designated use evaluation presented in the Methods for Assessing Habitat in Flowing Waters: Using the Qualitative Habitat Evaluation Index (OEPA 2006).

⁴Based on Ohio Administrative Code (OAC) 3745-1-16.

STBD - To be determined. Impact information and stream crossing information is unknown at this time.

Results August 15, 2025

3.4 OPEN WATERS

No open water features (ponds) were identified within the Project area during the field surveys that took place on April 19, 2023, and August 6, 2025.

Results August 15, 2025

3.5 RARE, THREATENED, OR ENDANGERED SPECIES HABITAT

Table 4. Summary of Potential Federally Listed and Ohio State-Listed Species within the South Kenton Station Expansion Project Area, Hardin County, Ohio

Common Name/ Scientific Name	State Listed Status ^{1,2}	Federally Listed Status ^{1,3}	Typical Habitat	Habitat Observed	Agency Comments (Appendix B)	Potential Impacts and Avoidance Dates
	•			Reptiles		
Eastern Massasauga/Sistrurus catenatus	E	T	Habitats range from sphagnum bogs, fens, swamps, marshes, shrub-dominated peatlands, wet meadows, and floodplains to dry woodlands; this snake prefers seasonal wetlands with a mixture of open grass-sedge areas and short closed canopy (edge situations) (NatureServe 2023).	No potentially suitable habitat (large areas of wet meadows, bogs, fens, and marshes) was observed within the Project area.	ODNR – The Project is within the range of the eastern massasauga. The ODNR recommends that an approved herpetologist conducts a habitat suitability survey to determine if suitable habitat is present within the Project area. If suitable habitat is determined to be present, the ODNR recommends that a presence/absence survey be conducted or an avoidance/minimization plan be developed and implemented by the approved herpetologist. USFWS - Due to the project type, size, and location, we do not anticipate adverse effects to this species.	No potentially suitable habitat (large areas of wet meadows, bogs, fens, and marshes) was observed within the Project area. However, the ODNR recommends that an approved herpetologist conducts a habitat suitability survey to determine if suitable habitat is present within the Project area. If suitable habitat is determined to be present, the ODNR recommends that a presence/absence survey be conducted or an avoidance/minimization plan be developed and implemented by the approved herpetologist.
			<u>'</u>	Fish		
Least Darter/Etheostoma microperca	SOC	N/A	Habitat includes quiet, vegetated lakes, headwaters, creeks, and small rivers, where the species usually occurs over mud and sand. The least darter inhabits weedy portions of lakes and of clear streams with sluggish flow (NatureServe 2023).	No potentially suitable habitat (perennial streams) was observed within the Project area.	ODNR – ODNR has records of the least darter within one mile of Project area. The ODNR 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 aquatic species. USFWS – No comments received.	No potentially suitable habitat (perennial streams) was observed within the Project area. Therefore, impacts to
	•			Mussels		
Elktoe/Alasmidonta marginata	SOC	N/A	Although it occurs in large to medium sized streams, it is more typical of smaller streams. Habitat often includes small streams with good current and sand or gravel bottoms at depths of several inches to two feet (NatureServe 2023).	No potentially suitable habitat (perennial streams) was observed within the Project area.	ODNR – ODNR has records of the elktoe within one mile of Project area. The ODNR 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 inwater work is proposed in a perennial stream, this project is not likely to impact aquatic species. USFWS – No comments received.	No potentially suitable habitat (perennial streams) was observed within the Project area. Therefore, impacts to this species are not anticipated and avoidance dates are not applicable.

Common Name/ Scientific Name	State Listed Status ^{1,2}	Federally Listed Status ^{1,3}	Typical Habitat	Habitat Observed	Agency Comments (Appendix B)	Potential Impacts and Avoidance Dates
Rainbow/Villosa iris	SOC	N/A	This mussel inhabits small streams, living within and below riffles on a sand, gravel or mud bottom in water less than a meter deep (WDNR 2022).	No potentially suitable habitat (perennial streams) was observed within the Project area.	ODNR – ODNR has records of the rainbow within one mile of Project area. The ODNR 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 inwater work is proposed in a perennial stream, this project is not likely to impact aquatic species.	No potentially suitable habitat (perennial streams) was observed within the Project area. Therefore, impacts to this species are not anticipated and avoidance dates are not applicable.
Pondhorn/Uniomerus tetralasmus	Т	N/A	This species occurs in fine gravel in moderate current. It may be encountered in shallow, quiet, or slow-moving water at depths seldom exceeding two feet. This species typically inhabits the quiet or slow-moving, shallow waters of sloughs, borrow pits, ponds, ditches, and meandering streams. It is typically found buried in a substrate of fine sand and mud in shallow sloughs and ditches, and it is a species tolerant of adverse habitat conditions, surviving for periods of weeks or even months buried in the bottoms or banks of dried-up ponds (Parmalee and Bogan 1998; NatureServe 2023).	No potentially suitable habitat (perennial streams and ditches; ponds) was observed within the Project area.	ODNR – The Project area is within the range of the pondhorn mussel. The ODNR 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 inwater work is proposed in a perennial stream, this project is not likely to impact aquatic species. USFWS – No comments received.	No potentially suitable habitat (perennial streams and ditches; ponds) was observed within the Project area. Therefore, impacts to this species are not anticipated and avoidance dates are not applicable.
Purple Lilliput/Toxolasma lividus	Е	N/A	This species can inhabit fine-particle substrates and sand, gravel, or cobbles and boulders in riffles or flats immediately above riffles. This species is reported from the headwaters of small to medium sized rivers (NatureServe 2023).	No potentially suitable habitat (perennial streams) was observed within the Project area.	ODNR - The Project area is within the range of the purple liliput mussel. The ODNR 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 inwater work is proposed in a perennial stream, this project is not likely to impact aquatic species. USFWS – No comments received.	No potentially suitable habitat (perennial streams) was observed within the Project area. Therefore, impacts to this species are not anticipated and avoidance dates are not applicable.
Rayed Bean/Villosa fabalis	E	E	Habitat includes gravel or sandy substrates, especially in areas of thick roots of aquatic plants and increased substrate stability (NatureServe 2023; Parmalee and Bogan 1998). Rayed bean can be associated with shoal or riffle areas, and in shallow, wave-washed areas of glacial lakes. It is generally found in smaller, headwater creeks, but sometimes in larger rivers and open-water bodies. It can occur in shallow riffles or in lakes with water depths up to four feet. It has been found in riffles, generally in vegetation, and deeply buried in sand and gravel bound together by roots (Parmalee and Bogan 1998).	No potentially suitable habitat (perennial streams) was observed within the Project area.	ODNR – The Project area is within the range of the rayed bean mussel. The ODNR 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 inwater work is proposed in a perennial stream, this project is not likely to impact aquatic species. USFWS – Due to the project type, size, and location, we do not anticipate adverse effects to this species.	No potentially suitable habitat (perennial streams) was observed within the Project area. Therefore, impacts to this species are not anticipated and avoidance dates are not applicable.

August 15, 2025						
Common Name/ Scientific Name	State Listed Status ^{1,2}	Federally Listed Status ^{1,3}	Typical Habitat	Habitat Observed	Agency Comments (Appendix B)	Potential Impacts and Avoidance Dates
Clubshell/Pleurobema clava	E	E	The clubshell occurs in medium to small rivers and streams, containing clean, coarse sand and cobble substrates (USFWS 1994). The clubshell is usually found within the current, where it may live several inches underneath the surface. It is most common in the downstream ends of riffles and islands (Watters et al. 2009). The clubshell is mostly considered an Ohio River system species, including the Tennessee, Cumberland, Kanawha, and Wabash River drainages. However, it is also found within the Maumee River system of Lake Erie. Although historically the clubshell was originally described as occurring within Lake Erie, only one record of its occurrence there has been found (Watters et al. 2009).	No potentially suitable habitat (perennial streams) was observed within the Project area.	ODNR – The Project area is within the range of the clubshell mussel. The ODNR 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 inwater work is proposed in a perennial stream, this project is not likely to impact aquatic species. USFWS - Due to the project type, size, and location, we do not anticipate adverse effects to this species.	No potentially suitable habitat (perennial streams) was observed within the Project area. Therefore, impacts to this species are not anticipated and avoidance dates are not applicable.
Creek Heelsplitter/Lasmigona compressa	SOC	N/A	This species occurs principally in rivers and streams of various sizes, even in very small creeks and is rare in lakes. It is found on substrates of gravel, sand, or mud (NatureServe 2023).	No potentially suitable habitat (perennial streams) was observed within the Project area.	ODNR – ODNR has records of the creek heelsplitter within one mile of Project area. The ODNR 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 aquatic species. USFWS – No comments received.	No potentially suitable habitat (perennial streams) was observed within the Project area. Therefore, impacts to this species are not anticipated and avoidance dates are not applicable.
	l			Mammals		
Indiana Bat/Myotis sodalis	E	E	The Indiana bat is likely distributed over the entire State of Ohio, though not uniformly. This species generally forages in openings and edge habitats within upland and floodplain forest, but they also forage over old fields and pastures (Brack et al. 2010). Natural roost structures include trees (live or dead) with exfoliating bark, and exposure to solar radiation. Other important factors for roost trees include relative location to other trees, a permanent water source and foraging areas; Dead trees are preferred as maternity roosts; however, live trees are often used as secondary roosts depending on microclimate conditions (USFWS 2007; USFWS 2023b). Roosts have also occasionally been found to consist of cracks and hollows in trees, utility poles, buildings, and bat boxes. Primarily use caves for hibernacula, although are also known to hibernate in abandoned underground mines (Brack et al. 2010).	One potentially suitable roost tree was identified within the Project area (Figure 3). No other potentially suitable roosting habitat was observed within the Project	ODNR – The entire state of Ohio is within the range of the Indiana bat. The ODNR recommends tree cutting only occurs from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with diameter at breast height (dbh) ≥ 20 if possible. In addition, ODNR recommends a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if there are potential hibernacula present within the Project area. If a habitat assessment finds that potential hibernacula are present within 0.25 miles of the Project area, please send this information to the ODNR for project recommendations. Additionally, the portion of the South Kenton-North Waldo 138 kV Line Rebuild Project west of Township Road 199 in Hardin County is within the vicinity of records for the Indiana bat. Because	One potentially suitable roost tree was identified within the Project area (Figure 3). No other potentially suitable summer roosting habitat was observed within the Project area. Additionally, AEP intends to clear trees between October 1 and March 31. If any summer tree clearing is required, AEP will proceed accordingly with agency recommendations to avoid impacts to this species. Additionally, a desktop bat hibernacula habitat assessment was completed by Stantec. No abandoned underground mines were identified within 0.25 miles of the Project area as a result of the assessment, but an area of karst geology was identified that overlaps the entirety of the Project area (Appendix A, Figure 4). No mine openings, caves, or any other potentially suitable hibernacula were observed within the Project area during the field surveys completed by Stantec. Avoidance Dates: April 1 – September 30

Common Name/ Scientific Name	State Listed Status ^{1,2}	Federally Listed Status ^{1,3}	Typical Habitat	Habitat Observed	Agency Comments (Appendix B)	Potential Impacts and Avoidance Dates
					presence of state endangered bat species has been established in this area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after	
					further consultation with the ODNR. USFWS – The Indiana bat occurs throughout the State of Ohio. Should the proposed project site contain trees ≥3 inches dbh, USFWS recommends avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with the USFWS is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥3 inches dbh cannot be	
					avoided, the USFWS recommends removal of any trees ≥3 inches dbh only occur between October 1 and March 31. ODNR – The entire state of Ohio is within	
Northern Long-eared Bat/Myotis septentrionalis	E	E	The northern long-eared bat is found throughout Ohio. This species generally forages in forested habitat and openings in forested habitat and utilizes cracks, cavities, and loose bark within live and dead trees, as well as buildings as roosting habitat (Brack et al. 2010; USFWS 2020). The species utilizes caves and abandoned mines as winter hibernacula. Various sized caves are used providing they have a constant temperature, high humidity, and little to no air current (Brack et al. 2010).	One potentially suitable roost tree was identified within the Project area (Figure 3). No other potentially suitable roosting habitat was observed within the Project area. No potential bat hibernacula were observed within the Project area.	the range of the northern long-eared bat. The ODNR recommends tree cutting only occurs 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. In addition, The ODNR recommends a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if there are potential hibernacula present within the Project area. If a habitat assessment finds that potential hibernacula are present within 0.25 miles of the Project area, please send this information to the ODNR for project recommendations. USFWS - The northern long-eared bat occurs throughout the state of Ohio. Should the proposed project site contain trees ≥3 inches dbh, USFWS recommends avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with USFWS	One potentially suitable roost tree was identified within the Project area (Figure 3). No other potentially suitab summer roosting habitat was observed within the Project area. Additionally, AEP intends to clear trees between October 1 and March 31. If any summer tree clearing required, AEP will proceed accordingly with agency recommendations to avoid impacts to this species. Additionally, a desktop bat hibernacula habitat assessment was completed by Stantec. No abandone underground mines were identified within 0.25 miles of the Project area as a result of the assessment, but an area of karst geology was identified that overlaps the entirety of the Project area (Appendix A, Figure 4). No mine openings, caves, or any other potentially suitable hibernacula were observed within the Project area during the field surveys completed by Stantec. Avoidance Dates: April 1 – September 30

Common Name/ Scientific Name	State Listed Status ^{1,2}	Federally Listed Status ^{1,3}	Typical Habitat	Habitat Observed	Agency Comments (Appendix B)	Potential Impacts and Avoidance Dates
					trees ≥3 inches dbh cannot be avoided, USFWS recommends removal of any trees ≥3 inches dbh only occur between October 1 and March 31.	
Little Brown Bat/Myotis lucifugus	E	N/A	The little brown bat is found throughout Ohio. This species seems to prefer to forage over water but also forages among trees in rather open areas (Harvey et al. 1999). During summer, it typically inhabits buildings, attics, church belfries, barns and outbuildings, and occasionally more natural habitats such as sloughing bark of a dead tree. During summer, two types of roosts are utilized: day roosts and night roosts. Day roosts are the maternity colony roost, while little brown bats often roost in other areas where they rest and congregate to digest their food in between foraging bouts. In Ohio, this species typically utilizes caves and mines as hibernacula, although at least one hibernaculum was found to be located in an attic of an old building (Brack et al. 2010).	One potentially suitable roost tree was identified within the Project area (Figure 3). No other potentially suitable roosting habitat was observed within the Project area. No potential bat hibernacula were observed within the Project area.	ODNR – The entire state of Ohio is within the range of the little brown bat. The ODNR recommends tree cutting only occurs 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. In addition, ODNR recommends a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if there are potential hibernacula present within the Project area. If a habitat assessment finds that potential hibernacula are present within 0.25 miles of the Project area, please send this information to Eileen Wyza for project recommendations.	One potentially suitable roost tree was identified within the Project area (Figure 3). No other potentially suitable summer roosting habitat was observed within the Project area. Additionally, AEP intends to clear trees between October 1 and March 31. If any summer tree clearing is required, AEP will proceed accordingly with agency recommendations to avoid impacts to this species. Additionally, a desktop bat hibernacula habitat assessment was completed by Stantec. No abandoned underground mines were identified within 0.25 miles of the Project area as a result of the assessment, but an area of karst geology was identified that overlaps the entirety of the Project area (Appendix A, Figure 4). No mine openings, caves, or any other potentially suitable hibernacula were observed within the Project area during the field surveys completed by Stantec.
					USFWS – No comments received.	Avoidance Dates: April 1 – September 30
Tri-colored Bat/Perimyotis subflavus	E	PE	The tricolored bat is found throughout Ohio. This species has been found to forage above and within a variety of habitats, including woodlands, agricultural fields, grassy areas, and over streamside vegetation (Sparks et al. 2011). Maternity colonies have often been found within clusters of dead leaves, hanging in trees. Maternity colonies have also been found in or on buildings. Little is known of male tri-colored bats in summer, but it is thought that they are probably solitary and spend their days in similar situations, as well as crevices, caves and mines (Brack et al. 2010). In Ohio, this species typically utilizes caves and mines as hibernacula, utilizing a variety of situations, including very cold areas near cave entrances to deeper passages that seem to be too warm for other species of bats (Brack et al. 2010).	One potentially suitable roost tree was identified within the Project area (Figure 3). No other potentially suitable roosting habitat was observed within the Project area. No potential bat hibernacula were observed within the Project area.	 ODNR – The entire state of Ohio is within the range of the tri-colored bat. The ODNR recommends tree cutting only occurs 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. In addition, ODNR recommends a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if there are potential hibernacula present within the Project area. If a habitat assessment finds that potential hibernacula are present within 0.25 miles of the Project area, please send this information to the ODNR for project recommendations. USFWS - This bat faces extinction due to the impacts of white-nose syndrome, a deadly disease affecting cave-dwelling bats across the continent. During spring, summer, and fall, this species roosts primarily among leaf clusters of live or recently dead trees, emerging at dusk to hunt for insects over waterways and forest edges. While white-nose syndrome is by far the most serious threat to the tricolored bat, other threats now have an increased 	One potentially suitable roost tree was identified within the Project area (Figure 3). No other potentially suitable summer roosting habitat was observed within the Project area. Additionally, AEP intends to clear trees between October 1 and March 31. If any summer tree clearing is required, AEP will proceed accordingly with agency recommendations to avoid impacts to this species. Additionally, a desktop bat hibernacula habitat assessment was completed by Stantec. No abandoned underground mines were identified within 0.25 miles of the Project area as a result of the assessment, but an area of karst geology was identified that overlaps the entirety of the Project area (Appendix A, Figure 4). No mine openings, caves, or any other potentially suitable hibernacula were observed within the Project area during the field surveys completed by Stantec. Avoidance Dates: April 1 – September 30

Common Name/ Scientific Name	State Listed Status ^{1,2}	Federally Listed Status ^{1,3}	Typical Habitat	Habitat Observed	Agency Comments (Appendix B)	Potential Impacts and Avoidance Dates
					significance due to the dramatic decline in the species' population. These threats include disturbance to bats in roosting, foraging, commuting, and over-wintering habitats. Mortality due to collision with wind turbines, especially during migration, has also been documented across their range. Conservation measures for the Indiana bat and northern long-eared bat will also help to conserve the tri-colored bat.	
				Birds		
Northern Harrier/Circus hudsonius	E	N/A	Harriers hunt low over grasslands, with wings held in a distinctive dihedral (V-shape). This is a common migrant and winter species; nesters are much rarer, although they occasionally breed in large marshes and grasslands (ODNR 2018). Northern harriers appear to be associated with large tracts of undisturbed habitat. They are uncommon in blocks of contiguous grassland less than 100 hectares (Slater and Rock 2005).	No suitable nesting habitat (large marshes and grasslands) was observed within the Project area.	ODNR – The Project is within the range of the northern harrier. This is a common migrant and winter species in Ohio. Nesters are much rarer, although they occasionally nest in loose colonies in large marshes and 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, the project is not likely to impact this species.	Northern harriers require large tracts of wetlands and/or grasslands that are 100 hectares (247 acres) or more for suitable breeding/nesting habitat (Slater and Rock 2005). No suitable nesting habitat (large tracts of wetlands and/or grasslands) were observed within the Project area. Therefore, no impacts are anticipated, and avoidance dates are not applicable.
Upland Sandpiper/Bartramia Iongicauda	E	N/A	Nesting upland sandpipers utilize dry grasslands including native grasslands, seeded grasslands, grazed and ungrazed pasture, hayfields, and grasslands established through the Conservation Reserve Program (CRP) (ODNR 2018). Upland sandpipers are primarily restricted to extensive, open tracts of short grassland habitats. These habitats also include edges of highway rights-of-way and airfields. (NatureServe 2023).	No potentially suitable nesting habitat (large areas of pastures, hayfields, or other grassland habitats) was observed within the Project area.	USFWS – No comments received. ODNR - The Project is within the range of the upland sandpiper. Nesting upland sandpipers utilize dry grasslands including native grasslands, seeded grasslands, grazed and ungrazed pasture, hayfields, and grasslands established through the Conservation Reserve Program (CRP). 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 type of habitat will not be impacted, the project is not likely to impact this species. USFWS - No comments received.	No potentially suitable nesting habitat was observed within the Project area. The tracts of grassland/hayfield/pasture habitats within the Project area are likely too small to attract nesting upland sandpipers. Therefore, no impacts are anticipated and avoidance dates are not applicable.
Trumpeter Swan/Cygnus buccinator	Т	N/A	The trumpeter swan is found in ponds, lakes, and marshes, breeding in areas of reeds, sedges or similar emergent vegetation, primarily on freshwater, occasionally in brackish situations, wintering on open ponds, lakes and sheltered bays and estuaries (NatureServe 2023).	No suitable nesting habitat (large marshes and lakes) was observed within the Project area.	ODNR – The Project is within the range of the trumpeter swan. Trumpeter swans prefer large marshes and lakes ranging in size from 40 to 150 acres. They like shallow wetlands one to three feet deep with a diverse mix of plenty of emergent and submergent vegetation and open water. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through June 15. If this habitat	No suitable nesting habitat was observed within the Project area. Therefore, no impacts are anticipated and avoidance dates are not applicable.

Results

August 15, 2025

Common Name/ Scientific Name	State Listed Status ^{1,2}	Federally Listed Status ^{1,3}	Typical Habitat	Habitat Observed	Agency Comments (Appendix B)	Potential Impacts and Avoidance Dates
					will not be impacted, this Project is not likely to have an impact on this species.	
					USFWS - No comments received.	
F=Fndangered: T=Threatened	I. PE=Propose	d Endanger	ed: SOC=Species of Concern: N/A=Not Applicable			

E=Endangered; T=Threatened; PE=Proposed Endangered; SOC=Species of Concern; N/A=Not Applicable

²According to ODNR, State Listed Wildlife and Plant Species by County (ODNR 2023a).
³According to the USFWS Information for Planning and Consultation website (USFWS 2023a).

Conclusions and Recommendations August 15, 2025

4.0 CONCLUSIONS AND RECOMMENDATIONS

Stantec conducted a wetland and waterbodies delineation and a preliminary habitat assessment for threatened and endangered species within the Project area on April 19, 2023, and August 6, 2025. No wetlands or open waters were identified within the Project area. One intermittent stream was identified within the Project area, an unnamed tributary to the Scioto River. See Table 3 for more information regarding the stream identified within the Project area.

The information provided by Stantec regarding wetland and stream boundaries is based on an analysis of the wetland and upland conditions present within the Project area at the time of the field work. The delineations were performed by experienced and qualified professionals using regulatory agency-accepted practices and sound professional judgment.

An ODNR Ohio Natural Heritage Program data request and environmental review request letter was sent to the ODNR Office of Real Estate on April 19, 2023. The ODNR Office of Real Estate response letter dated May 19, 2023 (Appendix B) states that the natural heritage database has records of the following species within one mile of the Project area: least darter, elktoe, rainbow, and creek heelsplitter. However, there is no in-water work proposed in a perennial stream and therefore, this project is not likely to impact these species. Each of these species are addressed in more detail in Table 4.

In addition, the ODNR stated that the entire state of Ohio is within the range of the Indiana bat, northern long-eared bat, little brown bat, and the tricolored bat. During the spring and summer (April 1 through September 30), these bat species predominantly roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. The ODNR recommends tree cutting only occurs 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.

The ODNR also recommended that a desktop habitat assessment be conducted, followed by a field assessment if needed, to determine if there are potential bat hibernacula present within 0.25 miles of the Project area. Stantec completed a desktop habitat desktop assessment in accordance with the 2023 Range-wide Indiana Bat and Northern Long-eared Bat Survey Guidelines (USFWS 2023b) utilizing available ODNR websites, including data on known abandoned or active mines (ODNR 2023b) and locations of known or suspected karst geology (ODNR 2023c). No abandoned or active underground mines were identified within the Project area or within 0.25 miles of it as part of the desktop assessment. The desktop assessment identified an area of karst geology that encompasses the entirety of the Project area (Figure 4, Appendix A). However, no underground openings, caves, or any other potentially suitable bat hibernacula were observed within the Project area during the field surveys completed by Stantec. Therefore, no impacts to potential bat hibernacula are anticipated.

Additionally, according to the ODNR, the portion of the South Kenton-North Waldo 138 kV Line Rebuild Project located south of County Road 130 in Hardin County is within the vicinity of known

Conclusions and Recommendations August 15, 2025

records of the Indiana bat. Because presence of state endangered bat species has been established in this area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with the ODNR.

One potentially suitable roost tree was identified within the Project area (Figure 3). No other potentially suitable summer roosting habitat or hibernacula for the Indiana bat, northern longeared bat, tri-colored bat, and little brown bat was identified within the Project area. Additionally, AEP intends to clear trees between October 1 and March 31, as applicable. If any summer tree clearing is required, AEP will proceed with agency recommendations to avoid impacts to these bat species.

The Project is within the range of the northern harrier, a state endangered bird. Northern harriers require large tracts of wetlands and/or grasslands that are 100 hectares (247 acres) or more for suitable breeding/nesting habitat (Slater and Rock 2005). No suitable nesting habitat (large tracts of wetlands and/or grasslands) were observed within the Project area. Therefore, no impacts are anticipated, and avoidance dates are not applicable.

The Project is within the range of the state endangered and federally threatened eastern massasauga. ODNR recommends that an approved herpetologist conducts a habitat suitability survey to determine if suitable habitat is present within the Project area. If suitable habitat is determined to be present, the ODNR recommends that a presence/absence survey be conducted, or an avoidance/minimization plan be developed and implemented by the approved herpetologist. No suitable habitat for the eastern massasauga (large areas of wet meadows, bogs, fens, and marshes) was observed by Stantec within the Project area.

The Project is within the range of the trumpeter swan. No potentially suitable nesting habitat (large marshes and lakes) was observed within the Project area. Therefore, this project is not likely to impact this species.

The Project is within the range of the state endangered and federally endangered clubshell and rayed bean mussels, state endangered purple lilliput mussel, and the state threatened pondhorn mussel. However, as stated, no in-water work is proposed in a perennial stream. Therefore, this Project is not likely to impact these species.

A technical assistance request letter was submitted to the USFWS on April 19, 2023. The USFWS response letter dated June 12, 2023, recommends that impacts to wetland and other water resources be avoided or minimized to the fullest extent possible, and that best management practices be utilized to minimize erosion and sedimentation (Appendix B).

According to the USFWS response letter, all projects in the state of Ohio lie within the range of the federally endangered Indiana bat, the federally endangered northern long-eared bat, and the federally proposed endangered tri-colored bat. In Ohio, presence of these species is assumed wherever suitable habitat occurs unless a presence/probable absence survey has been performed to document probable absence. The USFWS response letter states that, should the

Conclusions and Recommendations August 15, 2025

Project site contain trees ≥3 inches dbh, the USFWS recommends trees be saved whenever possible. If any caves or abandoned mines may be disturbed, further coordination is requested. If no caves or abandoned mines are present and trees ≥3 inches dbh cannot be avoided, the USFWS recommends that removal of trees ≥3 inches dbh only occur between October 1 and March 31 in order to avoid adverse effects to these species. If implementation of seasonal tree clearing is not possible, the USFWS recommended that summer presence/probable absence surveys be conducted between June 1 and August 15. AEP intends to clear trees between October 1 and March 31, as applicable. If any summer tree clearing is required, AEP will proceed with agency recommendations to avoid impacts to these bat species.

The USFWS stated that due to the Project type, size, and location they do not anticipate adverse effects to any other federally endangered, threatened, or proposed species or proposed or designated critical habitat.

References August 15, 2025

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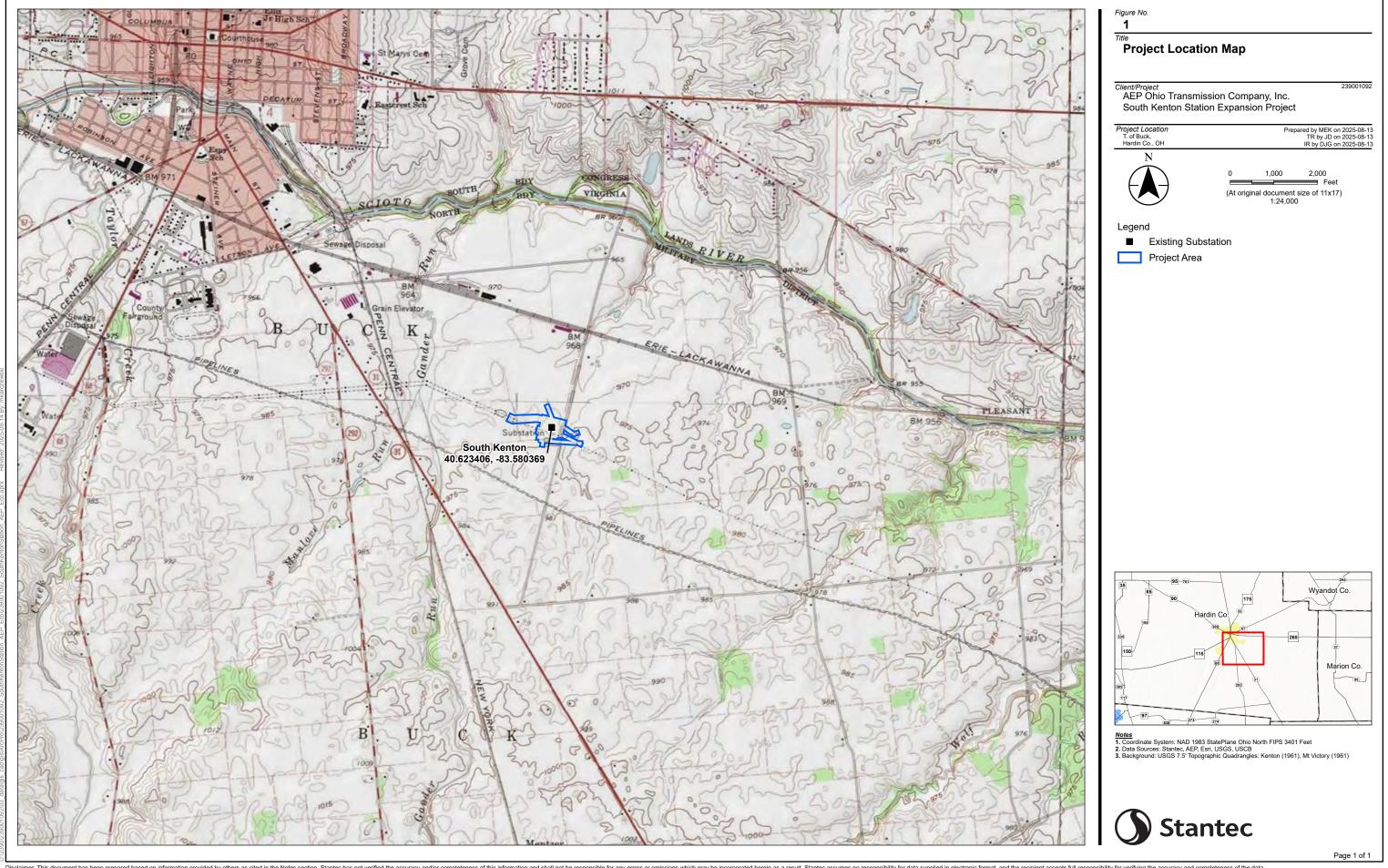
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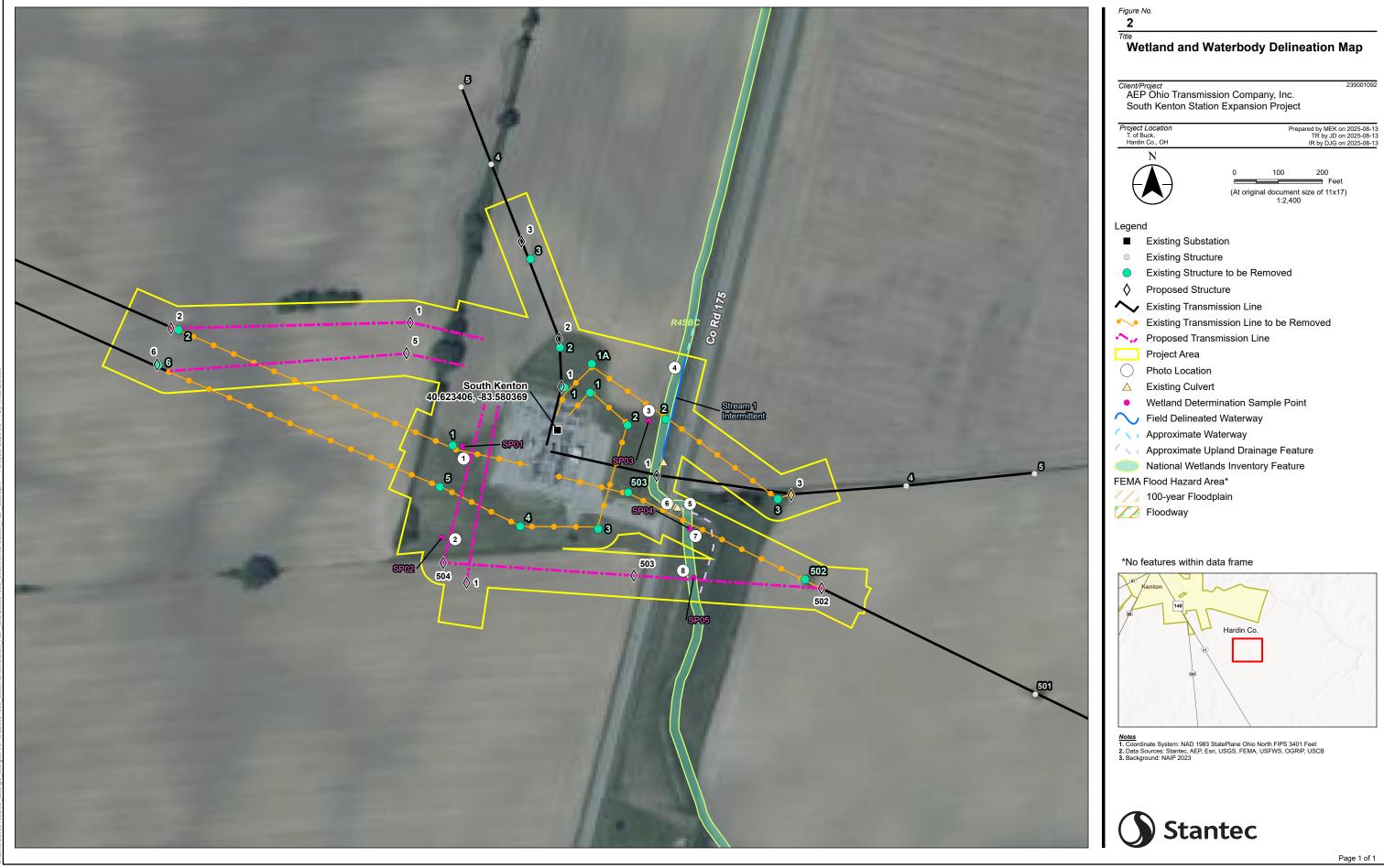
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Appendix A FIGURES

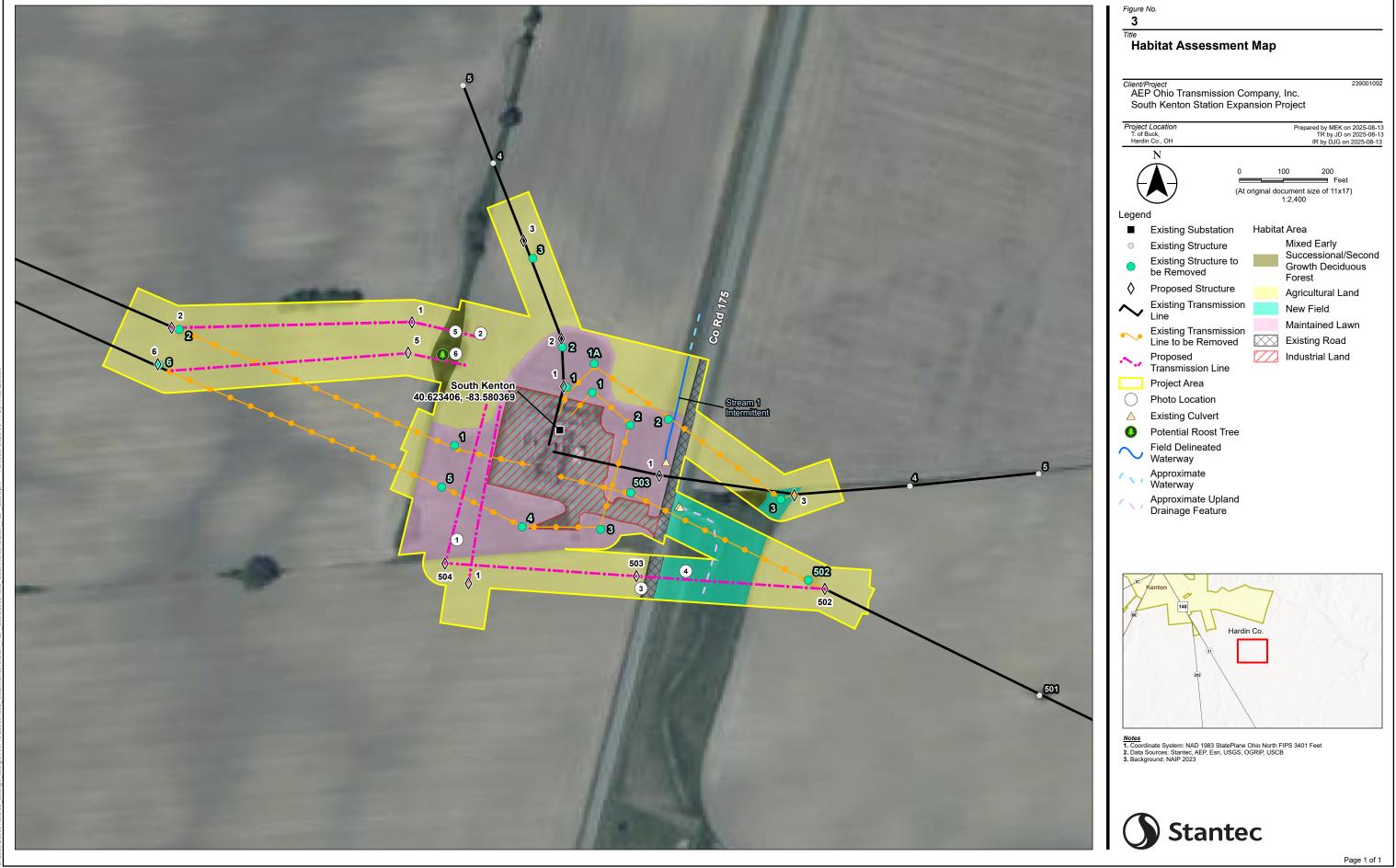
A.1 FIGURE 1 – PROJECT LOCATION MAP



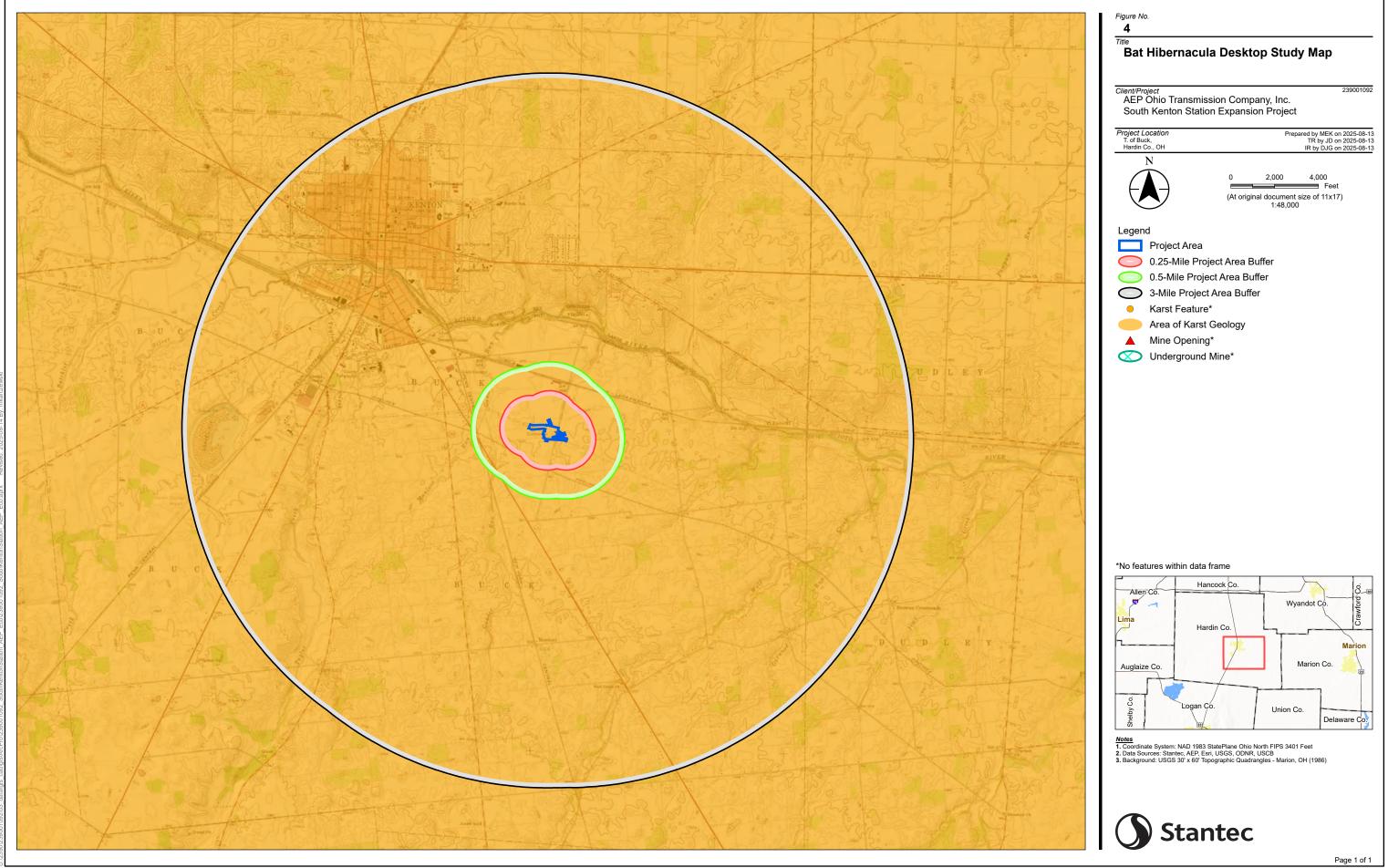
A.2 FIGURE 2 – WETLAND AND WATERBODY DELINEATION MAP



A.3 FIGURE 3 – HABITAT ASSESSMENT MAP



A.4 FIGURE 4 – BAT HIBERNACULA DESKTOP STUDY MAP



Appendix B AGENCY CORRESPONDENCE



Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate
John Kessler, Chief
2045 Morse Road – Bldg. E-2
Columbus, OH 43229
Phone: (614) 265-6621
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May 19, 2023

Daniel Godec Stantec Consulting Services, Inc. 10200 Alliance Road, Suite 300 Cincinnati OH 45242

Re: 23-0437; South Kenton-North Waldo 138 kV Line Rebuild

Project: The proposed project involves rebuilding a 138 kV Line from Kenton to North Waldo.

Location: The proposed project is located in Buck & Dudley Townships of Hardin County, and Bowling Green, Green Camp, Pleasant, & Richland Townships of Marion 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:

Least Darter (*Etheostoma microperca*), SC Elktoe (*Alasmidonta marginata*), SC Creek Heelsplitter (*Lasmigona compressa*), SC Rainbow (*Villosa iris*), SC

The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980. Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; P = state species of concern; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; P = state status under review; P = state special interest; $P = \text{st$

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 portion of the project west of Township Road 199 in Hardin County is within the vicinity of records for the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species. Because presence of state endangered bat species has been established in this area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

In addition, 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 bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. The DOW recommends tree 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. However, if trees are present within this area, (outside of the area delineated above) 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.

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 clubshell (*Pleurobema clava*), a state endangered and federally endangered mussel, the rayed bean (*Villosa fabalis*), a state endangered and federally endangered mussel, the purple lilliput (*Toxolasma lividus*), a state endangered mussel, and the pondhorn (*Uniomerus tetralasmus*), a state threatened mussel. This project must not have an impact on native mussels. This applies to both listed and non-listed species, as all species of mussel are protected in Ohio. Per the Ohio Mussel Survey Protocol (2022), all Group 2, 3, and 4 streams (Appendix A) require a mussel survey. Per the Ohio Mussel Survey Protocol, Group 1 streams (Appendix A) and unlisted streams with a watershed of 5 square miles or larger above the point of impact should be assessed using the Reconnaissance Survey for Unionid Mussels

(Appendix B) to determine if mussels are present. Mussel surveys may be recommended for these streams as well. Therefore, if in-water work is planned in any stream that meets any of the above criteria, the DOW recommends the applicant provide information to indicate no mussel impacts will occur. If this is not possible, the DOW recommends a professional malacologist conduct a mussel survey in the project area. If mussels that cannot be avoided are found in the project area, the DOW recommends a professional malacologist collect and relocate the mussels to suitable and similar habitat upstream of the project site. Mussel surveys and any subsequent mussel relocation should be done in accordance with the Ohio Mussel Survey Protocol. If there is no in-water work proposed, impacts to mussels are not likely.

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 aquatic species.

The project is within the range of the eastern massasauga (*Sistrurus catenatus*), a state endangered and federally threatened snake species. The eastern massasauga uses a range of habitats including wet prairies, fens, and other wetlands, as well as drier upland habitat. The DOW recommends that an approved herpetologist conducts a habitat suitability survey to determine if suitable habitat is present within the project area. If suitable habitat is determined to be present; the DOW recommends that a presence/absence survey be conducted, or an avoidance/minimization plan be developed and implemented by the approved herpetologist. A list of approved herpetologists has been provided for your convenience.

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, the project is not likely to impact this species.

The project is within the range of the trumpeter swan (*Cygnus buccinator*), a state threatened bird. Trumpeter swans prefer large marshes and lakes ranging in size from 40 to 150 acres. They like shallow wetlands one to three feet deep with a diverse mix of plenty of emergent and submergent vegetation and open water. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through June 15. If this habitat will not be impacted, this project is not likely to have an impact on this species.

The project is within the range of the upland sandpiper (*Bartramia longicauda*), a state endangered bird. Nesting upland sandpipers utilize dry grasslands including native grasslands, seeded grasslands, grazed and ungrazed pasture, hayfields, and grasslands established through the Conservation Reserve Program (CRP). 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 type of habitat will not be impacted, the 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 mike.pettegrew@dnr.ohio.gov if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator



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



June 12, 2023

Project Code: 2023-0068762

Dear Mr. Godec:

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, endangered, and proposed species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

Federally Threatened and Endangered Species: The endangered Indiana bat (Myotis sodalis) and northern long-eared bat (Myotis septentrionalis) occur throughout the State of Ohio. The Indiana bat and northern long-eared bat may be found wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed that may also include adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, woodlots, fallow fields, and pastures. Roost trees for both species include live and standing dead trees ≥3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities. These roost trees may be located in forested habitats as well as linear features such as fencerows, riparian forests, and other wooded corridors. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern longeared bats hibernate in caves, rock crevices and abandoned mines.

Federally Proposed Species: On September 14, 2022, the Service proposed to list the tricolored bat (*Perimyotis subflavus*) as endangered under the ESA. The bat faces extinction due to the impacts of white-nose syndrome, a deadly disease affecting cave-dwelling bats across the continent. During spring, summer, and fall, this species roosts primarily among leaf clusters of live or recently dead trees, emerging at dusk to hunt for insects over waterways and forest edges. While white-nose syndrome is by far the most serious threat to the tricolored bat, other threats now have an increased significance due to the dramatic decline in the species' population. These threats include disturbance to bats in roosting, foraging, commuting, and over-wintering habitats. Mortality due to collision with wind turbines, especially during migration, has also been documented across their range. Conservation measures for the Indiana bat and northern long-eared bat will also help to conserve the tricolored bat.

Seasonal Tree Clearing for Federally Listed Bat Species: Should the proposed project site contain trees ≥ 3 inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥ 3 inches dbh cannot be avoided, we recommend removal of any trees ≥ 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats.

If implementation of this seasonal tree cutting recommendation is not possible, a summer presence/absence survey may be conducted for Indiana bats and northern long-eared bats. If Indiana bats and northern long-eared bats are not detected during the survey, then tree clearing may occur at any time of the year. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Ohio Field Office. Surveyors must have a valid federal permit. Please note that in Ohio summer mist net surveys may only be conducted between June 1 and August 15.

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.

Due to the project type, size, and location, 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.

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,

Patrice Ashfield

Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW Eileen Wyza, ODNR-DOW

Appendix C REPRESENTATIVE PHOTOGRAPHS

C.1 WETLAND AND WATERBODY PHOTOGRAPHS





Photo Location 1. View of upland (agricultural land and maintained lawn habitat) at wetland determination point SP01. Photograph taken facing north.



Photo Location 1. View of upland (agricultural land and maintained lawn habitat) at wetland determination point SP01. Photograph taken facing south.





Photo Location 2. View of upland (maintained lawn habitat and industrial land) at wetland determination point SP02. Photograph taken facing east.



Photo Location 2. View of upland (maintained lawn habitat) at wetland determination point SP02. Photograph taken facing west.





Photo Location 3. View of upland (maintained lawn and agricultural land habitat) at wetland determination point SP03. Photograph taken facing north.



Photo Location 3. View of upland (maintained lawn habitat) at wetland determination point SP03. Photograph taken facing south.





Photo Location 4. View of Stream 1. Photograph taken facing upstream/north.



Photo Location 4. View of Stream 1. Photograph taken facing downstream/south.





Photo Location 4. View of substrates of Stream 1.



Photo Location 5. View of upland drainage feature. Photograph taken facing west.





Photo Location 6. Representative view of existing culvert. Photograph taken facing east.



Photo Location 7. View of upland (new field habitat and mixed early successional/second growth deciduous forest) at wetland determination point SP04. Photograph taken facing north.





Photo Location 7. View of upland (new field habitat) at wetland determination point SP04. Photograph taken facing south.



Photo Location 8. View of upland (new field habitat) at wetland determination point SP05.

Photograph taken facing north.





Photo Location 8. View of upland (new field habitat) at wetland determination point SP05. Photograph taken facing south.

C.2 HABITAT PHOTOGRAPHS





Photo Location 1. Representative view of industrial land (South Kenton Station) and maintained lawn within the Project area. Photograph taken facing northeast.



Photo Location 2. Representative view of agricultural land within the Project area. Photograph taken facing south.





Photo Location 3. Representative view of existing road within the Project area. Photograph taken facing east.



Photo Location 4. Representative view of new field habitat within the Project area. Photograph taken facing east.





Photo Location 5. Representative view of mixed early successional/second growth deciduous forest habitat within the Project area. Photograph taken facing east.

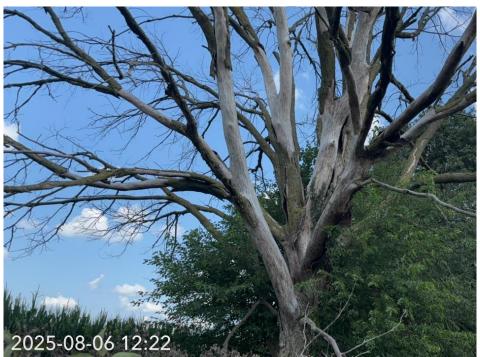


Photo Location 6. Representative view of a potential bat roost tree observed within the Project area. Photograph taken facing northwest.

Appendix D DATA FORMS

D.1 WETLAND DETERMINATION DATA FORMS



WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: Applicant:		on Station Expansion					Stantec Project #:	239001092		Date: County:	04/19/23 Hardin	
Investigator #1		·	uriy irio.	Investi	igator #2:	Savann	ah Pheanis			State:	Ohio	
Soil Unit:		o silty clay loam, 0 to 1 pe	ercent slopes		.g		WI/WWI Classification:	N/A		Wetland ID:	N/A	
Landform:	Plain			Loc	al Relief:	None				Sample Point:	SP01	
Slope (%):	0		40.623296		ongitude:			Datum:		Community ID:	UPL	
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		or Hydrology □ nat	urally probl	lematic?			Yes	N□		Range:	Dir:	
SUMMARY OF		_										
Hydrophytic Ve	~			☐ Yes	_			Hydric Soils			☐ Yes	
Wetland Hydro	ology Present	?		☐ Yes	s ☑ No			Is This Sam	pling Point	Within A Wetl	and? ■ Yes	■ No
Remarks:												
HADBOLOCA												
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		ators (Check here is	f indicators	are not	present	Ö			0			
Primary	<u>v:</u>] A1 - Surface	Water		П	B9 - Wate	er-Stained	Leaves		Secondary:	B6 - Surface So	nil Cracks	
	A2 - High Wa				B13 - Aqu					B10 - Drainage		
	A3 - Saturati				B14 - Tru					C2 - Dry-Seaso		
					C1 - Hydr		de Odor spheres on Living Roots			C8 - Crayfish B	urrows Visible on Aerial I	magani
1							educed Iron				Stressed Plants	magery
	B4 - Algal Ma	at or Crust					duction in Tilled Soils			D2 - Geomorph		
					C7 - Thin					D5 - FAC-Neuti	al Test	
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Field Observa	ations:											
Surface Water		☐ Yes ☑ No	Depth:		(in.)							
Water Table P	resent?	☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	Yes ☑ No	
Saturation Pre	sent?	☐ Yes ☑ No	Depth:		(in.)							
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SOILS Map Unit Nam Profile Descri Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	ption (Describe to Bottom Depth 16	Horizon 1	Clay loam, ilicator or confirm the Color (I 10YR	0 to 1 pr absence of indic Matrix Moist) 4/4 tors are i	## Property Property	ppes	=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist) Matrix ineral Matrix cfface Surface Surface	ox Features %	Type	Location	(e.g. clay, san silty clay l es	d, loam)
SOILS Map Unit Nam Profile Descri Top Depth 0 NRCS Hydric	Describe to	Horizon 1	Clay loam, ilicator or confirm the Color (I 10YR	0 to 1 per absence of indic Matrix Woist) 4/4 tors are i	## Property Property	ppes	=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist) Matrix ineral Matrix cfface Surface Surface	ox Features % Indicators ¹ Indicators of hydrophy	Type	Location	(e.g. clay, san silty clay l	d, loam)
SOILS Map Unit Nam Profile Descri Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	Describe to	Horizon 1	Clay loam, ilicator or confirm the Color (I 10YR	0 to 1 per absence of indic Matrix Woist) 4/4 tors are i	## Property Property	ppes	=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist) Matrix ineral Matrix cfface Surface Surface	ox Features % Indicators ¹ Indicators of hydrophy	Type	Location	(e.g. clay, san silty clay l	d, loam)



WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: South Kenton Station Expansion Project Wetland ID: N/A Sample Point: SP01 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2 Number of Dominant Species that are OBL, FACW, or FAC: (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7. Prevalence Index Worksheet 8. 9. Total % Cover of: Multiply by: --10. x 1 = OBL spp. Total Cover = 0 FACW spp. 0 x 2 = 0 x 3= FAC spp. 0 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. 40 160 1. UPL spp. 60 x 5 = 300 2. 3. 100 460 Total (A) 4. 5. Prevalence Index = B/A = 4.600 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. ☐ Yes ✓ No Rapid Test for Hydrophytic Vegetation 10. --☐ Yes ☑ No Dominance Test is > 50% Total Cover = 0 □ Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No ☐ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☐ Yes ✓ No Problem Hydrophytic Vegetation (Explain) * 50 UPL Festuca arundinacea 1. * Indicators of hydric soil and wetland hydrology must be 2. Taraxacum officinale 10 Ν **FACU** present, unless disturbed or problematic. Plantago lanceolata 10 Ν **FACU** 3. 4. Achillea millefolium 10 Ν **FACU Definitions of Vegetation Strata:** 5. 10 Ν UPL Fragaria vesca Tree - Woody plants 3 in. (7.6cm) or more in diameter at Trifolium repens 6 10 Ν **FACU** breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 1. ----Hydrophytic Vegetation Present ☐ Yes ☑ No 3. 4 5. Total Cover = 0 Remarks: Additional Remarks:



WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site:	South Kent	on Station Expansion	n Project				Stantec Project #:	239001092		Date:	04/19/23	
Project/Site: Applicant:		Fransmission Comp	,				Glantec Froject #.	239001092			Hardin	
		•	any inc.	lus ca adi		D				County:		
Investigator #1:				invesu	igator #2:					State:	Ohio	
Soil Unit:		ilty clay loam, 0-1% slope	es		- I D - II - 6		IWI/WWI Classification	:		Wetland ID:		
Landform:	Terrace		10.01000		al Relief:			- .		Sample Point:		
Slope (%):	0		40.61963		ongitude:				WGS84	Community ID:		
		ditions on the site ty				no, explain ir			No	Section:		
Are Vegetation	□ , Soil □,	or Hydrology □ sig	nificantly di	sturbed?	?		Are normal circumsta	•	?	Township:		
Are Vegetation	□, Soil □,	or Hydrology □ nat	urally probl	ematic?			☑ Yes	N□		Range:		Dir:
SUMMARY OF	FINDINGS											
Hydrophytic Ve	aetation Pre	sent?		☐ Yes	. ☑ No			Hydric Soils	Present?			Yes ☑ No
Wetland Hydro	•			☐ Yes	_					Within A Wetl		Yes ☑ No
Remarks:		nin station property						io rino Garri	Jg . J		aa.	
T tomanto.	Opiana Witi	iii otation proporty										
LIVEROLOGY												
HYDROLOGY												
Wetland Hydr	ology Indic	ators (Check here i	f indicators	are not p	present	Þ						
<u>Primary</u>									Secondary:			
	A1 - Surface				B9 - Wate					B6 - Surface So		
	A2 - High Wa				B13 - Aqu					B10 - Drainage		
	A3 - Saturation				B14 - True					C2 - Dry-Seaso		ible
\blacksquare					C1 - Hydr					C8 - Crayfish B		A arial Imagent
							spheres on Living Roots educed Iron			C9 - Saturation D1 - Stunted or		
l H	-						eduction in Tilled Soils			D2 - Geomorph		iailis
I					C7 - Thin					D5 - FAC-Neuti		
I ==		on Visible on Aerial Ima	agerv		D9 - Gaug				_	20	u. 1001	
		Vegetated Concave S			Other (Ex							
Field Observa	tions:											
Surface Water		☐ Yes ☑ No	Depth:		(in.)							
Water Table Pr		☐ Yes ☑ No			(in.)			Wetland Hy	drology Pı	resent?	Yes ☑	No
			Depth:		` ,							
Saturation Pres	sent?	☐ Yes ☑ No	Depth:		(in.)							
Describe Record	ded Data (str	eam gauge, monitorir	ng well, aeri	al photos	. previous	inspection	ons) if available:		N/A			
					,	mapcond	moj, ii avallabio.					
Remarks:					, , , , , , , , , , , , , , , , , , , ,	Порсоц	mo), ii availabio.					
					, , , , , , , , , , , , , , , , , , , ,	Порсоц	no), ii avallabio.					
Remarks:				,	, μ	торсон	noj, ii avallabio.					
Remarks:	a·					тореско	no, ii arailabio.					
Remarks: SOILS Map Unit Name		Pk: Pewano silty cla	ay loam, 0-	1% slope	es							
Remarks: SOILS Map Unit Name Profile Descrip	ption (Describe to	Pk: Pewano silty cla	ay loam, 0-	1% slop∈	es		D=Depletion, RM=Reduced Matrix, CS=Cover			ning, M=Matrix)		
Remarks: SOILS Map Unit Name Profile Descrip Top	Ption (Describe to Bottom	Pk: Pewano silty cla	ay loam, 0-	1% slope absence of indic Matrix	estors.) (Type: C=		D=Depletion, RM=Reduced Matrix, CS=Cover Red(ox Features	Location: PL=Pore Li	1		exture
Remarks: SOILS Map Unit Name Profile Descrip	ption (Describe to	Pk: Pewano silty cla	ay loam, 0-	1% slope absence of indic Matrix	es		D=Depletion, RM=Reduced Matrix, CS=Cover			ning, M=Matrix) Location		exture y, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top	Ption (Describe to Bottom	Pk: Pewano silty cla	ay loam, 0-	1% slope absence of indic Matrix	estors.) (Type: C=		D=Depletion, RM=Reduced Matrix, CS=Cover Red(ox Features	Location: PL=Pore Li	1	(e.g. clay	
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	Bottom Depth	Pk: Pewano silty class the depth needed to document the inc	ay loam, 0- dicator or confirm the Color (I	1% slope absence of indic Matrix Moist)	estors.) (Type: C=	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Redu Color (Moist)	ox Features %	Location: PL=Pore Li	Location	(e.g. clay	,, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- dicator or confirm the Color (I 10YR	1% slope absence of indic Matrix Moist) 4/3	9S tators.) (Type: C=	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Redu Color (Moist) 	ox Features % 	Location: PL=Pore Li	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Potion (Describe to Bottom Depth 21 	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 	ay loam, 0- dicator or confirm the Color (I 10YR	1% slope absence of Indic Matrix Moist) 4/3	% 100		D=Depletion, RM=Reduced Matrix, CS=Cover Redu Color (Moist) 	ox Features %	Type	Location 	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 	ay loam, 0- sicator or confirm the Color (I 10YR	1% slope absence of indic Matrix Moist) 4/3	9S teators.) (Type: C=	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Redu Color (Moist) 	ox Features % 	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 	ay loam, 0- sicator or confirm the Color (II 10YR	1% slope absence of indic Matrix Moist) 4/3	% 100	-Concentration,	D=Depletion, RM=Reduced Matrix, CS=Cover Redu Color (Moist)	ox Features	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 	ay loam, 0- dicator or confirm the Color (I 10YR	1% slope absence of indic Matrix Moist) 4/3	% 100		D=Depletion, RM=Reduced Matrix, CS=Cover Redu Color (Moist) 	ox Features % 	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 	ay loam, 0- sicator or confirm the Color (II 10YR	1% slope absence of indic Matrix Moist) 4/3	% 100	-Concentration,	D=Depletion, RM=Reduced Matrix, CS=Cover Redu Color (Moist)	ox Features	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- dicator or confirm the Color (I 10YR	1% slope absence of indic Matrix Moist) 4/3	% 100		D=Depletion, RM=Reduced Matrix, CS=Cover Redu Color (Moist)	ox Features	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- icator or confirm the Color (I 10YR	1% slope absence of indic Matrix Moist) 4/3	% 100		D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist)	ox Features	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field In	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- icator or confirm the Color (I 10YR	1% slope absence of indic Matrix Woist) 4/3 tors are i	% 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist)	ox Features % Indicators	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field Ir A1- Histosol	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- icator or confirm the Color (I 10YR	1% slope absence of indic Matrix Woist) 4/3 tors are i	98 96 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist)	ox Features	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field Ir A1- Histosol	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- icator or confirm the Color (I 10YR	1% slope absence of indic Matrix Woist) 4/3 tors are r	% 100		D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Matrix, CS=Cover Reduced Matrix CS=Cover Reduced Redu	ox Features % Indicators	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field Ir A1- Histosol A2 - Histic E ₁ A3 - Black Hi	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- icator or confirm the Color (I 10YR	1% slope absence of indic Matrix Woist) 4/3 tors are r	% 100 S4 - Sand		D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist)	ox Features %	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field Ir A1- Histosoi A2 - Histic EJ A3 - Black Hi A4 - Hydroge	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he bipedon stic an Sulfide	ay loam, 0- icator or confirm the Color (I 10YR	1% slope absence of indice Matrix Moist) 4/3 tors are r	% 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist)	ox Features %	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field Ir A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratified	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- icator or confirm the Color (I 10YR	1% slope absence of indic Matrix Woist) 4/3 tors are i	98 % 100	r-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist)	ox Features %	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- sicator or confirm the Color (I 10YR ere if indicat	1% slope absence of indic Matrix Woist) 4/3 tors are r	% 100 S4 - Sand S5 - Strip F7 - Loam F7 2 - Loam F7 2 - Loam F7 2 - Loam	e-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Matrix K Ilineral Matrix K	ox Features %	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field Ir A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick I	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he bipedon stic an Sulfide d Layers luck ded Below Dark Surface	ay loam, 0- sicator or confirm the Color (I 10YR ere if indicat	1% slope absence of indic Matrix Woist) 4/3 tors are i	98 % 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Matrix Inneral Matrix x race Surface Surface Surface Surface Surface Surface	ox Features %	Type	Location	(e.g. clay	y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- sicator or confirm the Color (I 10YR ere if indicat	1% slope absence of indic Matrix Woist) 4/3 tors are i	98 % 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Matrix Inneral Matrix x race Surface Surface Surface Surface Surface Surface	ox Features %	Type	Location	(e.g. clay silty (/, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he bipedon stic an Sulfide d Layers luck ded Below Dark Surface	ay loam, 0- sicator or confirm the Color (I 10YR ere if indicat	1% slope absence of indic Matrix Woist) 4/3 tors are i	98 % 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Matrix Inneral Matrix x race Surface Surface Surface Surface Surface Surface	ox Features %	Type	Location	(e.g. clay silty (y, sand, loam) clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- sicator or confirm the Color (I 10YR ere if indicat	1% slope absence of indic Matrix Woist) 4/3 tors are r	98 % 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Matrix Inneral Matrix x race Surface Surface Surface Surface Surface Surface	ox Features %	Type	Location	(e.g. clay silty (/, sand, loam) clay loam disturbed or problematic.
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- sicator or confirm the Color (I 10YR ere if indicat	1% slope absence of indic Matrix Woist) 4/3 tors are i	98 % 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Matrix Inneral Matrix x race Surface Surface Surface Surface Surface Surface	ox Features % Indicators Indicators of hydrophy	Type	Location	(e.g. clay silty (/, sand, loam) clay loam disturbed or problematic.
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- sicator or confirm the Color (I 10YR ere if indicat	1% slope absence of indic Matrix Woist) 4/3 tors are r	98 % 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Matrix Inneral Matrix x race Surface Surface Surface Surface Surface Surface	ox Features % Indicators Indicators of hydrophy	Type	Location	(e.g. clay silty (/, sand, loam) clay loam disturbed or problematic.
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- sicator or confirm the Color (I 10YR ere if indicat	1% slope absence of indic Matrix Woist) 4/3 tors are r	98 % 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Matrix Inneral Matrix x race Surface Surface Surface Surface Surface Surface	ox Features % Indicators Indicators of hydrophy	Type	Location	(e.g. clay silty (/, sand, loam) clay loam disturbed or problematic.
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, 0- sicator or confirm the Color (I 10YR ere if indicat	1% slope absence of indic Matrix Woist) 4/3 tors are r	98 % 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Matrix Inneral Matrix x race Surface Surface Surface Surface Surface Surface	ox Features % Indicators Indicators of hydrophy	Type	Location	(e.g. clay silty (/, sand, loam) clay loam disturbed or problematic.



WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: South Kenton Station Expansion Project Wetland ID: N/A Sample Point: SP02 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2 Number of Dominant Species that are OBL, FACW, or FAC: _____(A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B) 7. Prevalence Index Worksheet 8. 9. Total % Cover of: --Multiply by: 10. x 1 = OBL spp. Total Cover = 0 FACW spp. 0 x 2 = 0 x 3= FAC spp. 40 120 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. 60 240 1. UPL spp. 0 x 5 = 0 2. 3. 100 360 Total (A) 4. 5. Prevalence Index = B/A = 3.600 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. ☐ Yes ✓ No Rapid Test for Hydrophytic Vegetation 10. --☐ Yes ☑ No Dominance Test is > 50% Total Cover = 0 Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No ☐ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☐ Yes ✓ No Problem Hydrophytic Vegetation (Explain) * Taraxacum officinale 30 **FACU** 1. * Indicators of hydric soil and wetland hydrology must be 2. Trifolium pratense 20 **FACU** present, unless disturbed or problematic. 10 Ν **FACU** 3. Trifolium repens 4. 40 FAC **Definitions of Vegetation Strata:** Poa pratensis 5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 1. ----Hydrophytic Vegetation Present ☐ Yes ☑ No 3. 4 5. Total Cover = 0 Remarks:

Additional Remarks:		



WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site:		on Station Expansion	,				Stantec Project #:	239001092		Date:	04/19/23	
Applicant:		Fransmission Comp	any Inc.	Invocti	igator #2:	Porry C	ordinor			County: State:	Hardin Ohio	
Investigator #1 Soil Unit:	Pk: Pewano s			invest	igator #2:		ardiner IWI/WWI Classification:			Wetland ID:	N/A	
Landform:	Terrace	iity ciay ioam,		Loc	al Relief:		ivvi/vv vvi Olassiiloation.	•		Sample Point:		
Slope (%):	0	Latitude:	40.62347		ongitude:		623	Datum:	WGS84	Community ID:		
		ditions on the site ty							No	Section:		
		or Hydrology □ sig					Are normal circumsta	nces present	?	Township:		
Are Vegetation	□, Soil □,	or Hydrology □ nat	urally probl	ematic?				N□		Range:	D	Dir:
SUMMARY OF	FINDINGS											
Hydrophytic Ve	getation Pre	sent?		☐ Yes	₃ ☑ No			Hydric Soils	Present?		□ Y	′es ☑ No
Wetland Hydro	logy Present			☐ Yes				Is This Sam	pling Point	Within A Wetl	and? 🔲 Y	′es ☑ No
Remarks:	Upland	Maintained	lawn within	station	property							
HYDROLOGY												
Wetland Hydr	ology Indic	ators (Check here i	f indicators	are not	present	Q						
Primary	<u>r.</u>	,			-	,			Secondary:			
	A1 - Surface				B9 - Wate					B6 - Surface So		
	A2 - High Wa A3 - Saturati				B13 - Aqu B14 - Tru					B10 - Drainage C2 - Dry-Seaso		le.
					C1 - Hydr					C8 - Crayfish B		.0
_							spheres on Living Roots			C9 - Saturation		
	-						educed Iron duction in Tilled Soils			D1 - Stunted or D2 - Geomorph		ints
l ä					C7 - Thin					D5 - FAC-Neuti		
	B7 - Inundati	on Visible on Aerial Ima			D9 - Gaug							
	B8 - Sparsel	Vegetated Concave S	urface		Other (Ex	plain in Re	emarks)					
Field Observa												
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	Yes ☑ N	lo
Water Table Pi		☐ Yes ☑ No	Depth:		(in.)			•	0,			
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)							
Describe Record	ded Data (str	eam gauge, monitorir	ng well aeri:	al nhotos	nrevious	inonostic	ine) if available:		N/A			
		0 0 ,	.g, a	ai priotoo	, previous	inspeciic	ilis), il avallable.		IN/A			
Remarks:		<u> </u>	.g .re, aer	ai priotoc	, provious	mspeciic	nis), ii avallable.		IN/A			
		0 0 ,	.g, a	аг риосоо	, previous	inspection	nis), ii avallable.		IV/A			
SOILS				ur priotoc	, provious	inspection	по, п ачанаые.		N/A			
SOILS Map Unit Name		Pk: Pewano silty cla	ay loam,									
SOILS Map Unit Name Profile Descri	ption (Describe to	Pk: Pewano silty cla	ay loam,	absence of indic			P=Depletion, RM=Reduced Matrix, CS=Cover			ning, M=Matrix)	l To	vituro.
SOILS Map Unit Name Profile Descri	ption (Describe to Bottom	Pk: Pewano silty cla	ay loam,	absence of indic	cators.) (Type: C=		D=Depletion, RM=Reduced Matrix, CS=Cover RedC	ox Features	Location: PL=Pore Li	1		xture
SOILS Map Unit Name Profile Descri Top Depth	Bottom Depth	Pk: Pewano silty class the depth needed to document the inc	ay loam, licator or confirm the color (N	absence of indic Matrix Moist)	cators.) (Type: C=	-Concentration, L	D=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist)	ox Features %	Location: PL=Pore Li	Location	(e.g. clay,	sand, loam)
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, ilicator or confirm the: Color (N 10YR	absence of indice Matrix Moist) 4/3	% 100	-Concentration, t	D=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist)	%	Location: PL=Pore Li	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0	Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, ilicator or confirm the: Color (N 10YR	absence of indic Matrix Moist) 4/3	% 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist) 	%	Type	Location 	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0	Potion (Describe to Bottom Depth 21 	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 	ay loam, licator or confirm the: Color (N 10YR	absence of indic Matrix Moist) 4/3	% 100		D=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist) 	% Features %	Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 	ay loam, licator or confirm the: Color (N 10YR	absence of indic	% 100		D=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist) 	%	Location: PL=Pore Lii Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 	ay loam, licator or confirm the: Color (N 10YR	absence of indic	% 100	-Concentration, t	D=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist) 	%	Location: PL=Pore Lii Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	ay loam, ilicator or confirm the: Color (N 10YR	absence of indic	% 100		D=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist) 	%	Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 	ay loam, licator or confirm the: Color (N 10YR	absence of indic	% 100	-Concentration, t	D=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist) 	%	Location: PL=Pore Lii Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	Color (N	absence of indic Matrix Moist) 4/3	96 100		DeDepletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist) 	x Features	Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field In	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	Color (N	absence of indic Matrix Woist) 4/3 tors are i	% 100 not prese	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist)	x Features	Type s for Problem	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field It A1- Histosol	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	Color (N	absence of indic Matrix Woist) 4/3 tors are i	% 100 S4 - Sand		D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist)	ox Features	Type s for Problem	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field It A1- Histosol A2 - Histic E A3 - Black H	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	Color (N	absence of indic	% 100		DeDepletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist)	ox Features % Indicators	Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field In A1- Histosoi A2 - Histic El A3 - Black H A4 - Hydroge	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he bipedon stic an Sulfide	Color (N	absence of indic	% 100	-Concentration, I	D=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist)	ox Features %	Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field Ir A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratifier	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	Color (N	absence of indic	% 100	r-Concentration, t	D=Depletion, RM=Reduced Matrix, CS=Cover Redo Color (Moist)	ox Features % Indicators	Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1	Color (N	absence of indic	% 100	e-Concentration, I	De-Depletion, RM-Reduced Matrix, CS=Cover Reduced Color (Moist) Watrix ineral Matrix	ox Features %	Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he bipedon stic en Sulfide d Layers fluck ed Below Dark Surface park Surface	Color (N	absence of indic	% 100	-Concentration, I	P=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Watrix ineral Matrix (rface Surface	ox Features %	Type	Location	(e.g. clay,	sand, loam) lay loam
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he oipedon stic en Sulfide d Layers fluck ed Below Dark Surface olark Surface fluck Mineral	Color (N	absence of indic Matrix Woist) 4/3 tors are i	% 100	-Concentration, I	P=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Watrix ineral Matrix (rface Surface	ox Features %	Type	Location	es clay,	sand, loam) ay loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he bipedon stic en Sulfide d Layers fluck ed Below Dark Surface park Surface	Color (N	absence of indic	% 100	-Concentration, I	P=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Watrix ineral Matrix (rface Surface	ox Features % Indicators Indicators of hydrophy	Type	Location	es urface	sand, loam) ay loam sturbed or problematic.
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he oipedon stic en Sulfide d Layers fluck ed Below Dark Surface olark Surface fluck Mineral	Color (N	absence of indic	% 100	-Concentration, I	P=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Watrix ineral Matrix (rface Surface	ox Features %	Type	Location	es clay,	sand, loam) ay loam sturbed or problematic.
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field It A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick It S1 - Sandy M S3 - 5 cm M	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he oipedon stic en Sulfide d Layers fluck ed Below Dark Surface olark Surface fluck Mineral	Color (N	absence of indic	% 100	-Concentration, I	P=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Watrix ineral Matrix (rface Surface	ox Features % Indicators Indicators of hydrophy	Type	Location	es urface	sand, loam) ay loam sturbed or problematic.
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field It A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick It S1 - Sandy M S3 - 5 cm M	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he oipedon stic en Sulfide d Layers fluck ed Below Dark Surface olark Surface fluck Mineral	Color (N	absence of indic	% 100	-Concentration, I	P=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Watrix ineral Matrix (rface Surface	ox Features % Indicators Indicators of hydrophy	Type	Location	es urface	sand, loam) ay loam sturbed or problematic.
SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	ption (Describe to Bottom Depth 21 Soil Field It A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick It S1 - Sandy M S3 - 5 cm M	Pk: Pewano silty cla the depth needed to document the inc Horizon 1 ndicators (check he oipedon stic en Sulfide d Layers fluck ed Below Dark Surface olark Surface fluck Mineral	Color (N	absence of indic	% 100	-Concentration, I	P=Depletion, RM=Reduced Matrix, CS=Cover Reduced Color (Moist) Watrix ineral Matrix (rface Surface	ox Features %	Type	Location	es urface	sand, loam) ay loam sturbed or problematic.



Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: South Kenton Station Expansion Project Wetland ID: N/A Sample Point: SP03 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2 Number of Dominant Species that are OBL, FACW, or FAC: _____(A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B) 7. Prevalence Index Worksheet 8. 9. Total % Cover of: Multiply by: --10. x 1 = OBL spp. Total Cover = 0 FACW spp. 0 x 2 = 0 x 3= FAC spp. 30 90 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. 70 280 1. UPL spp. 0 x 5 = 0 2. 3. 100 370 Total (A) 4. 5. Prevalence Index = B/A = 3.700 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. ☐ Yes ✓ No Rapid Test for Hydrophytic Vegetation 10. --☐ Yes ☑ No Dominance Test is > 50% Total Cover = 0 Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No ☐ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☐ Yes ✓ No Problem Hydrophytic Vegetation (Explain) * Taraxacum officinale 40 **FACU** 1. * Indicators of hydric soil and wetland hydrology must be 2. Trifolium pratense 20 **FACU** present, unless disturbed or problematic. 10 Ν **FACU** 3. Trifolium repens 4. 30 FAC **Definitions of Vegetation Strata:** Poa pratensis 5. Tree - Woody plants 3 in. (7.6cm) or more in diameter at 6 breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, 12. and woody plants less than 3.28 ft. tall. 13 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 1. ----Hydrophytic Vegetation Present ☐ Yes ☑ No 3. 4 5. Total Cover = 0

Additional Remarks:			

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; 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: South Kenton Station Expansion		City/Cou	nty: <u>Hardin</u>	County	Sampling Da	te:	8/06/202
Applicant/Owner: AEP Ohio Transmission Comp	oany Inc,			State: OH	Sampling Poi	nt:	SP0
Investigator(s): Malea Casey, Abbey Dunn		Section,	Township, Ra	ange:			
Landform (hillside, terrace, etc.): Terrace			Local relief (concave, convex, none	e): Concave		
Slope (%): 0-1 Lat: 40.62281			83.579282	, ,	Datum: WGS8	34	
Soil Map Unit Name: Pewamo silty clay loam, 0 to 1	l nercent slor		00.0.0202	NWI clas	ssification: R4SB0		
Are climatic / hydrologic conditions on the site typical	•		V V				
•		•	Yes X				
Are Vegetation, Soil, or Hydrology				Circumstances" preser		No	_
Are Vegetation, Soil, or Hydrology	naturally prol	olematic? ((If needed, ex	cplain any answers in	Remarks.)		
SUMMARY OF FINDINGS – Attach site m	ap showin	ig samplin	g point lo	cations, transect	ts, important f	eatures	s, etc.
Hydrophytic Vegetation Present? Yes N	√o X	Is the	e Sampled A	rea			
	No X	ı	n a Wetland		No X		
Wetland Hydrology Present? Yes N	No X						
Remarks:		<u> </u>					
VEGETATION – Use scientific names of pla	ants.						
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test v	vorksheet:		
1. Ulmus americana	3	No No	FACW	Number of Domina	•	0	(4)
2. Celtis occidentalis	2	No	FAC	Are OBL, FACW, o	_	0	(A)
3.				Total Number of Do	ominant Species	1	(B)
5.							_ ^(D)
·	5	=Total Cover		Percent of Domina Are OBL, FACW, o	•	0	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)	. 510. 5575.		, 022, . ,, 0	_		_('''
1.	- ′			Prevalence Index	worksheet:		
2.	<u> </u>			Total % Cove	r of: Mul	tiply by:	
3.				OBL species	0 x 1 =	0	
4.				FACW species	13 x 2 =	26	_
5				FAC species	2 x 3 =	6	_
	0	=Total Cover		FACU species	135 x 4 = _	540	_
Herb Stratum (Plot size: 5 ft)				UPL species	40 x 5 = _	200	_
1. Bromus inermis	75	Yes	FACU	Column Totals:	190 (A)	772	(B)
2. Daucus carota	30	No	UPL	Prevalence Inde	ex = B/A =	4.06	_
3. Symphyotrichum pilosum	15	No No	FACU	Llydrophytic Vosc	tation Indicators		
Cirsium arvense Dipsacus fullonum	15	No No	FACU	Hydrophytic Vege	for Hydrophytic Ve		
Dipsacus fullonum Dactylis glomerata	15 10	No No	FACU FACU	- 2 - Dominance		getation	
7. Heracleum maximum	10	No	FACW	- 3 - Prevalence			
8. Calystegia pubescens	10	No	UPL		cal Adaptations¹ (F	Provide su	pporting
9. Cichorium intybus	5	No	FACU	l ——	arks or on a separ		
10.	<u> </u>			Problematic H	ydrophytic Vegetat	ion¹ (Expl	ain)
	185	=Total Cover		¹ Indicators of hydric			•
Woody Vine Stratum (Plot size: 30 ft)			be present, unless			
1				Hydrophytic			
2				Vegetation			
	0	=Total Cover		Present? Ye	es No_	X	
Remarks: (Include photo numbers here or on a sepa	arate sheet.)						

SOIL Sampling Point: SP04

Depth (inches)	Color (moist)	%	Color (moist) %	Type ¹	Loc ²	Texture		Remarks	
0-16	10YR 3/2	100	,				Silt Loam			
					· ——					
	·				· ——					
					· ——		-			
Type: C=C	oncentration, D=Depl	etion. RM=	Reduced Matr	ix. MS=Mas	ked Sand	Grains.	² Loca	tion: PL=Pore L	_ining. M=Matrix	C .
-	Indicators:		. to a do o d mati	,				ators for Proble		
Histosol			Sandy	Gleyed Ma	trix (S4)			ron-Manganese	-	
	pipedon (A2)			Redox (S5				Red Parent Mate		
	istic (A3)		-	ed Matrix (S			<u></u> v	ery Shallow Dar	rk Surface (F22)
 Hydroge	en Sulfide (A4)			Surface (S7)				Other (Explain in	-	
Stratified	d Layers (A5)		Loamy	Mucky Min	eral (F1)					
2 cm Mu	uck (A10)		Loamy	Gleyed Ma	trix (F2)			cators of hydrophy and hydrology mus		i
Deplete	d Below Dark Surface	(A11)	Deplet	ed Matrix (F	3)			ss disturbed or pro		
Thick Da	ark Surface (A12)		Redox	Dark Surfa	ce (F6)					
Iron Mor	nosulfide (A18)		Deplet	ed Dark Su	face (F7)					
Sandy N	Mucky Mineral (S1)		Redox	Depression	ns (F8)					
5 cm M	ucky Peat or Peat (S3)								
Restrictive	Layer (if observed):									
Type:										
Depth (i	nches):		_				Hydric Soil Pres	sent?	Yes	No
Depth (i Remarks:			_				Hydric Soil Pres	sent?	Yes	No
Depth (i Remarks:			_				Hydric Soil Pres	sent?	Yes	No
Depth (i Remarks: YDROLC Wetland Hy	OGY rdrology Indicators:									
Depth (i Remarks: YDROLC Wetland Hy Primary Indi	OGY rdrology Indicators: icators (minimum of o	ne is requir			47.00		<u>Seco</u>	ndary Indicators	(minimum of tw	
Depth (i Remarks: YDROLC Vetland Hy Primary Indi Surface	OGY vdrology Indicators: icators (minimum of o Water (A1)	ne is requir	Water-	Stained Lea	` ,		<u>Seco</u>	ndary Indicators Surface Soil Crac	(minimum of two	
Depth (i Remarks: YDROLC Vetland Hy Primary Indi Surface High Wa	OGY rdrology Indicators: icators (minimum of or Water (A1) ater Table (A2)	ne is requir	Water- Aquati	Stained Leace c Fauna (B	13)		<u>Seco</u> S	ndary Indicators Surface Soil Crac Drainage Pattern	(minimum of two	
Primary Indi Surface High Wa Saturati	ordrology Indicators: icators (minimum of or Water (A1) ater Table (A2) on (A3)	ne is requir	Water- Aquati True A	Stained Leace Fauna (B	13) ts (B14)		Seco S C	ndary Indicators Surface Soil Crac Orainage Pattern Ory-Season Wate	(minimum of two	
YDROLO Vetland Hy Primary Indi Surface High Wa Saturati Water M	ordrology Indicators: licators (minimum of or Water (A1) later Table (A2) on (A3) Marks (B1)	ne is requir	Water- Aquati True A	Stained Leace Fauna (B´aquatic Plangen Sulfide	I3) ts (B14) Odor (C1)		Seco S C	ndary Indicators Surface Soil Crac Orainage Pattern Ory-Season Wate Crayfish Burrows	(minimum of two	/o require
Primary Indi Surface High Water M Sedimer	ordrology Indicators: icators (minimum of orwater (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2)	ne is requir	Water- Aquati True A Hydro Oxidiz	Stained Leace Fauna (Branda) Aquatic Plangen Sulfide Bed Rhizospl	l3) ts (B14) Odor (C1) neres on I	_iving R	Seco S C C C C C	ndary Indicators Surface Soil Crac Orainage Pattern Ory-Season Wate Crayfish Burrows Saturation Visible	(minimum of twocks (B6) s (B10) er Table (C2) (C8) e on Aerial Imag	/o require
YDROLO Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedimee Drift De	ordrology Indicators: icators (minimum of orwater (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3)	ne is requir	Water-Aquati True A Hydrog Oxidiz Preser	Stained Leace Fauna (Brander) Equatic Planer	l3) ts (B14) Odor (C1) neres on l ced Iron (_iving R C4)	Seco S C C C C S	ndary Indicators Surface Soil Crac Orainage Pattern Ory-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress	(minimum of two cks (B6) s (B10) er Table (C2) c (C8) e on Aerial Imaged Plants (D1)	/o require
Primary Indi Surface High Water M Sedimel Drift De Algal Ma	ordrology Indicators: icators (minimum of orward (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	ne is requir	Water- Aquati True A Hydrog Oxidiz Preser Recen	Stained Leace Fauna (Brandatic Plandatic Pland	ts (B14) Odor (C1) neres on I ced Iron (_iving R C4)	SecoSCCCCCC	ndary Indicators Surface Soil Crac Orainage Pattern Ory-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	(minimum of two cks (B6) s (B10) er Table (C2) c (C8) e on Aerial Image sed Plants (D1) ition (D2)	/o require
Depth (i Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma Iron Dep	ordrology Indicators: icators (minimum of orwater (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		Water- Aquati True A Hydrog Oxidiz Presei Recen Thin M	Stained Leace Fauna (Brander) Equatic Planer	ts (B14) Odor (C1) neres on I ced Iron (ction in Ti e (C7)	_iving R C4)	SecoSCCCCCC	ndary Indicators Surface Soil Crac Orainage Pattern Ory-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress	(minimum of two cks (B6) s (B10) er Table (C2) c (C8) e on Aerial Image sed Plants (D1) ition (D2)	/o require
YDROLO Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedimer Drift De Algal Ma Iron Dep Inundati	ordrology Indicators: icators (minimum of orward (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	nagery (B7	Water- Aquati True A Hydrog Oxidiz Preser Recen Thin M	Stained Lea c Fauna (B' quatic Plan gen Sulfide ed Rhizospl nce of Redu t Iron Redu luck Surface	ts (B14) Odor (C1) neres on I ced Iron (ction in Ti e (C7) ta (D9)	_iving R C4)	SecoSCCCCCC	ndary Indicators Surface Soil Crac Orainage Pattern Ory-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	(minimum of two cks (B6) s (B10) er Table (C2) c (C8) e on Aerial Image sed Plants (D1) ition (D2)	/o require
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Primary Indi Surface High Water M Sedimer Drift De Algal Ma Iron Dep Inundati Sparsel	ordrology Indicators: icators (minimum of orwater (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Intry Vegetated Concave	nagery (B7 Surface (B	Water- Aquati True A Hydrog Oxidiz Preser Recen Thin M	Stained Lea c Fauna (B' quatic Plan gen Sulfide ed Rhizospl nce of Redu t Iron Redu luck Surface or Well Da (Explain in I	ts (B14) Odor (C1) neres on I ced Iron (ction in Ti e (C7) ta (D9) Remarks)	Living Ro	SecoSCCCCCC	ndary Indicators Surface Soil Crac Orainage Pattern Ory-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	(minimum of two cks (B6) s (B10) er Table (C2) c (C8) e on Aerial Image sed Plants (D1) ition (D2)	/o require
Depth (i Remarks: PYDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Inundati Sparsel	ordrology Indicators: licators (minimum of or Water (A1) later Table (A2) on (A3) Marks (B1) Int Deposits (B2) posits (B3) lat or Crust (B4) loosits (B5) lon Visible on Aerial Inty Vegetated Concave rvations: ter Present? Ye	nagery (B7 Surface (B	Water- Aquati True A Hydrog Oxidiz Presei Recen Thin M Gauge 8) Other	Stained Lea c Fauna (B' quatic Plan gen Sulfide ed Rhizospl nce of Redu t Iron Redu luck Surface or Well Da (Explain in F	ts (B14) Odor (C1) neres on I ced Iron (ction in Ti e (C7) ta (D9)	_iving R C4) Iled Soil	SecoSCCCCCC	ndary Indicators Surface Soil Crac Orainage Pattern Ory-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	(minimum of two cks (B6) s (B10) er Table (C2) c (C8) e on Aerial Image sed Plants (D1) ition (D2)	/o require
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Depth (i Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsele Surface Wa Water Table Saturation F	ordrology Indicators: icators (minimum of orwater (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In y Vegetated Concave rvations: ter Present? Ye Present? Ye	nagery (B7 Surface (B ss	Water- Aquati	Stained Leace Fauna (Brandard Planagen Sulfide ed Rhizosphace of Reduct Iron Reduct Iron Reduct Surface or Well Da (Explain in Faunagen Pepth (Depth (ts (B14) Odor (C1) neres on I ced Iron (ction in Ti e (C7) ta (D9) Remarks) inches): _ inches): _	Living Rock)	Seco S	ndary Indicators Surface Soil Crac Orainage Pattern Ory-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Tes	(minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Imaged Plants (D1) tion (D2) t (D5)	o require
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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; 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: South Kenton Station Expansion		City/County	: Hardin	County	Sampling Date	te: 08	3/06/2025
Applicant/Owner: AEP Ohio Transmission Compa	ny Inc.			State: OH	Sampling Poi	nt:	SP05
Investigator(s): Malea Casey, Abbey Dunn		Section, Tov	vnship, Rai	nge:			
Landform (hillside, terrace, etc.): Terrace		Lo	cal relief (c	oncave, convex, none	e): Concave		
Slope (%): 1 Lat: 40.622504		Long: -83	.579243		Datum: WGS8	4	
Soil Map Unit Name: Pewamo silty clay loam, 0 to 1 p	ercent slopes			NWI clas	ssification: R4SB0	2	
Are climatic / hydrologic conditions on the site typical for	this time of ye	ar? Ye	es X	No (If no,	explain in Remarks	s.)	
Are Vegetation , Soil , or Hydrology si	-						
Are Vegetation , Soil , or Hydrology na							_
SUMMARY OF FINDINGS – Attach site ma						eatures	, etc.
Hydrophytic Vegetation Present? Yes No	Х	ls the S	ampled Ar	02			
	X	1	ampled Ai Wetland?		No X		
Wetland Hydrology Present? Yes No			· · · · · · · · · · · · · · · · · · · ·				
Remarks:							
New field area between paved road and agricultural field							
VEGETATION – Use scientific names of plan	ts.						
The Objection (Distriction 20 ft)			ndicator	Daminanaa Taatu	vanlaala aatu		
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1.	% Cover S	Species?	Status	Dominance Test v			
2.				Number of Domina Are OBL, FACW, or	•	0	(A)
3.				Total Number of Do	_		_` ′
4.				Across All Strata:	_	1	(B)
5.				Percent of Domina	nt Species That		_
	0 =To	otal Cover		Are OBL, FACW, o	r FAC:	0	_(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft)							
1				Prevalence Index		dia la la ca	
2. 3.				Total % Cover	0 x 1 =	tiply by: 0	-
4.				OBL species FACW species	0 x1= 0 x2=	0	_
5.				FAC species	10 x 3 =	30	_
	0 =Tc	otal Cover		FACU species	120 x 4 =	480	_
Herb Stratum (Plot size: 5 ft)				UPL species	25 x 5 =	125	_
1. Bromus inermis	80	Yes	FACU	Column Totals:	155 (A)	635	(B)
2. Daucus carota	25	No	UPL	Prevalence Inde	x = B/A =	4.1	_
3. Dipsacus fullonum	20	No	FACU				
4. Symphyotrichum pilosum	15	No	FACU	Hydrophytic Vege			
5. <u>Toxicodendron radicans</u>	10	No	FAC		for Hydrophytic Ve	egetation	
6. <u>Solanum carolinense</u> 7.	5	No	FACU_	- 2 - Dominance - 3 - Prevalence			
8.					riluex is ≤3.0 cal Adaptations¹ (P	rovide sur	porting
9.					arks or on a separ		
10.				Problematic H	/drophytic Vegetat	ion¹ (Expla	ain)
	155 =To	otal Cover		¹Indicators of hydric	. , .	` .	,
Woody Vine Stratum (Plot size: 30 ft)				be present, unless			
1				Hydrophytic			
2				Vegetation			
	<u> </u>	otal Cover		Present? You	esNo_	<u>X</u>	
Remarks: (Include photo numbers here or on a separa	te sheet.)						

SOIL Sampling Point: SP05

Depth	Matr	ix	Re	dox Feature	es				
(inches)	Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-16	10YR 4/2	100					Silt Loam		
	_				·		_		
	-								
								_	
								_	
								_	
Type: C=C	Concentration, D=	Donlotion PM	-Poducod Matrix	MS-Mack	od Sano	l Grains	² Locatio	on: PL=Pore Lining, M=	-Matrix
	I Indicators:	Depletion, Mil	-Neduced Math	t, ivio-iviasi	deu Sand	Giailis.		ors for Problematic H	
Histoso			Sandy	Gleyed Mat	riy (S4)			n-Manganese Masses	•
	pipedon (A2)			Redox (S5)	IIX (O+)			d Parent Material (F21)	
	listic (A3)		-	d Matrix (S6	;)			ry Shallow Dark Surfac	
	en Sulfide (A4)			urface (S7)	,,			ner (Explain in Remarks	
	d Layers (A5)			Mucky Mine	eral (F1)			ici (Explaiii iii Neiriaike	,
	uck (A10)			Gleyed Mat				tors of hydrophytic vegeta	
	ed Below Dark Sur	face (Δ11)		ed Matrix (F	, ,			d hydrology must be prese	nt,
	ark Surface (A12)	` ,		Dark Surfac	•		uniess	disturbed or problematic.	
	nosulfide (A18)		<u> </u>	ed Dark Surf	` '				
	Mucky Mineral (S	1)		Depression:					
	ucky Peat or Pea	-	11000X1	Бергезоюн	3 (1 0)				
	Layer (if observe								
	Layer (ii observ	ou).							
_									
Type:	inches):						Hydric Soil Prese	nt? Yes	No
_	inches):						Hydric Soil Prese	nt? Yes_	No
Type: Depth (i	inches):						Hydric Soil Prese	nt? Yes_	No
Type: Depth (i			_				Hydric Soil Prese	nt? Yes_	No
Type: Depth (i Remarks:		ors:					Hydric Soil Prese	nt? Yes_	No
Type: Depth (i Remarks: IYDROLO Wetland Hy	DGY		ired; check all th	at apply)			•	nt? Yes_	
Type: Depth (i Remarks: IYDROLO Wetland Hy Primary Ind Surface	OGY ydrology Indicato icators (minimum & Water (A1)		Water-S	Stained Lea	` '		Second	dary Indicators (minimui rface Soil Cracks (B6)	
Type: Depth (i Remarks: IYDROLO Wetland Hy Primary Ind Surface High Wa	OGY ydrology Indicato icators (minimum water (A1) ater Table (A2)		Water-S Aquatio	Stained Lea Fauna (B1	3)		<u>Second</u> Su Dra	dary Indicators (minimul rface Soil Cracks (B6) ainage Patterns (B10)	n of two require
Type: Depth (i Remarks: IYDROLO Wetland Hy Primary Ind Surface High Wa Saturati	OGY ydrology Indicators (minimum of Water (A1) ater Table (A2) ion (A3)		Water-S Aquatic True Ac	Stained Lea Fauna (B1 quatic Plant	3) s (B14)		<u>Seconc</u> Su Dra Dry	dary Indicators (minimu rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (n of two require
Type: Depth (i Remarks: YDROLO Vetland Hy Primary Ind Surface High Water N	ydrology Indicatoricators (minimum water (A1) ater Table (A2) ion (A3)		Water-{AquaticTrue Ac	Stained Lea Fauna (B1 quatic Plant en Sulfide (3) s (B14) Odor (C1))	Second Su Dra Dry Cra	dary Indicators (minimul rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (ayfish Burrows (C8)	m of two require
Type: Depth (i Remarks: YDROLO Wetland Hy Primary Ind Surface High Water Males Water Males Sedime	ydrology Indicatoricators (minimum water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2)		Water-S Aquatic True Ac Hydrog Oxidize	Stained Lea Fauna (B1 quatic Plant en Sulfide C d Rhizosph	3) s (B14) Odor (C1) eres on) Living R	Second Su Dra Dra Cra oots (C3) Sa	dary Indicators (minimul rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria	m of two require C2) Il Imagery (C9)
Type: Depth (i Remarks: YDROLO Wetland Hy Primary Ind Surface High Water Mater Mater Mater Mater Mater Mater Drift De	ydrology Indicatoricators (minimum e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3)		Water-S Aquatic True Ac Hydrog Oxidize Presence	Stained Lea Fauna (B1: quatic Plant en Sulfide (d Rhizosph ce of Reduc	3) s (B14) Odor (C1) eres on lead) Living R (C4)	Second Su Dra Dry Cra oots (C3)	dary Indicators (minimul rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plant	m of two require C2) Il Imagery (C9) Is (D1)
Type: Depth (i Remarks: IYDROLO Wetland Hy Primary Ind Surface High Water M Sedime Drift De Algal M:	ydrology Indicated icators (minimum a Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) at or Crust (B4)		Water-S Aquatic True Ac Hydrog Oxidize Present Recent	Stained Lea Fauna (B1 quatic Plante en Sulfide (d Rhizosph ce of Reduc Iron Reduc	3) s (B14) Odor (C1) eres on led Iron (tion in Ti) Living R (C4)	Second	dary Indicators (minimul rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plant omorphic Position (D2)	m of two require C2) Il Imagery (C9) Is (D1)
Type: Depth (i Remarks: IYDROLO Wetland Hy Primary Ind Surface High Wa Saturati Water M Sedime Drift De Algal M Iron De	ydrology Indicators (minimum e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5)	of one is requ	Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mu	Stained Lea Fauna (B1 quatic Plant en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface	3) s (B14) Odor (C1) eres on lead Iron (ction in Ti) Living R (C4)	Second	dary Indicators (minimul rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plant	m of two require C2) Il Imagery (C9) Is (D1)
Type: Depth (i Remarks: YDROLO Wetland Hy Primary Ind Surface High Water IN Sedime Drift De Algal Malron Del Inundati	pody vdrology Indicators (minimum w Water (A1) ater Table (A2) ion (A3) warks (B1) ent Deposits (B2) at or Crust (B4) posits (B5) ion Visible on Aer	<u>of one is requ</u> ial Imagery (B	Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mc	Stained Lea Fauna (B1: quatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat	3) s (B14) Odor (C1) eres on led Iron (tion in Ti (C7) a (D9)) Living R (C4) Iled Soil	Second	dary Indicators (minimul rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plant omorphic Position (D2)	m of two require C2) Il Imagery (C9) Is (D1)
Type: Depth (i Remarks: YDROLO Wetland Hy Primary Ind Surface High Water M Sedime Drift De Algal M Iron De Inundat Sparsel	ody ydrology Indicate icators (minimum water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aer	<u>of one is requ</u> ial Imagery (B	Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mc	Stained Lea Fauna (B1 quatic Plant en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface	3) s (B14) Odor (C1) eres on led Iron (tion in Ti (C7) a (D9)) Living R (C4) Iled Soil	Second	dary Indicators (minimul rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plant omorphic Position (D2)	m of two require C2) Il Imagery (C9) Is (D1)
Type: Depth (i Remarks: IYDROLO Wetland Hy Primary Ind Surface High Water M Sedime Drift De Algal M Iron De Inundat Sparsel	ydrology Indicators (minimum e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) at or Crust (B4) posits (B5) ion Visible on Aerly Vegetated Concrvations:	of one is requi ial Imagery (B cave Surface (Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mo Gauge B8) Other (I	Stained Lea Fauna (B1: quatic Plant en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat	3) s (B14) Ddor (C1) eres on led Iron (tion in Ti (C7) a (D9)) Living R (C4) Iled Soil	Second	dary Indicators (minimul rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plant omorphic Position (D2)	m of two require C2) Il Imagery (C9) Is (D1)
Type: Depth (i Remarks: IYDROLO Wetland Hy Primary Ind Surface High Water IN Sedime Drift De Algal Mater In Iron De Inundat Sparsel Field Obsel Surface Water Water Water IN	ydrology Indicators (minimum e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerly Vegetated Conditivations:	of one is requicated in its requicated in its requirement of the second in the second in its requirement of the second in its requir	Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mo Gauge B8) Other (I	Stained Lea Fauna (B1: quatic Plant en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat Explain in R	3) s (B14) Odor (C1) eres on led Iron (tion in Ti (C7) a (D9) emarks)) Living R (C4) Iled Soil	Second	dary Indicators (minimul rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plant omorphic Position (D2)	m of two require C2) Il Imagery (C9) Is (D1)
Type: Depth (i Remarks: IYDROLO Wetland Hy Primary Ind Surface High Water M Sedime Drift De Algal Mallon Del Inundat Sparsel Field Obsel Rufface Water Table	pody vertical and the control of the	of one is required ial Imagery (Beave Surface (In Yes	Water-S	Stained Lea Fauna (B1: quatic Plant en Sulfide (d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat Explain in R	s (B14) Odor (C1) eres on led Iron (C7) a (D9) emarks) nches): _ nches): _) Living R (C4) Iled Soil	Second	dary Indicators (minimulariace Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plantomorphic Position (D2) C-Neutral Test (D5)	m of two require C2) Il Imagery (C9) s (D1)
Type: Depth (i Remarks: IYDROLO Wetland Hy Primary Ind Surface High Water M Sedime Drift De Algal M Iron De Inundat Sparsel Field Obset Surface Water Table Saturation F	ydrology Indicators (minimum e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aer by Vegetated Concretions: ater Present? Present?	of one is requicated in its requicated in its requirement of the second in the second in its requirement of the second in its requir	Water-S Aquatic True Ac Hydrog Oxidize Present Recent Thin Mo Gauge B8) Other (I	Stained Lea Fauna (B1: quatic Plant en Sulfide C d Rhizosph ce of Reduc Iron Reduc uck Surface or Well Dat Explain in R	s (B14) Odor (C1) eres on led Iron (C7) a (D9) emarks) nches): _ nches): _) Living R (C4) Iled Soil	Second	dary Indicators (minimulariace Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plantomorphic Position (D2) C-Neutral Test (D5)	m of two require C2) Il Imagery (C9) Is (D1)
Type: Depth (i Remarks: IYDROLO Wetland Hy Primary Ind Surface High W: Saturati Water M Sedime Drift De Algal M: Iron De Inundat Sparsel Field Obse Surface Wa Water Table Saturation F (includes ca	ydrology Indicatoricators (minimum water (A1) ater Table (A2) ion (A3) Marks (B1) Ant Deposits (B2) Aposits (B3) At or Crust (B4) Aposits (B5) Aposits (B7) Aposi	ial Imagery (Bare Surface (I	Water-S	Stained Lea Fauna (B1: quatic Planten Sulfide (Color Reduction Red	s (B14) Ddor (C1) eres on led Iron (C7) a (D9) emarks) emarks): _nches): _	Living R (C4) Iled Soil	Second Su Dra Dra Cra oots (C3) Sa Stu St (C6) FA Wetland Hydrol	dary Indicators (minimulariace Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plantomorphic Position (D2) C-Neutral Test (D5)	m of two require C2) Il Imagery (C9) s (D1)
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Type: Depth (i Remarks: PYDROLO Wetland Hy Primary Ind Surface High Water M Sedime Drift De Algal M Iron De Inundat Sparsel Field Obset Saturation F includes ca	ydrology Indicatoricators (minimum water (A1) ater Table (A2) ion (A3) Marks (B1) Ant Deposits (B2) Aposits (B3) At or Crust (B4) Aposits (B5) Aposits (B7) Aposi	ial Imagery (Bare Surface (I	Water-S	Stained Lea Fauna (B1: quatic Planten Sulfide Code d Rhizosphoce of Reduction Reduction Reduction Reduction Well Data Explain in Reduction Reducti	s (B14) Ddor (C1) eres on led Iron (C7) a (D9) emarks) emarks): _nches): _	Living R (C4) Iled Soil	Second Su Dra Dra Cra oots (C3) Sa Stu St (C6) FA Wetland Hydrol	dary Indicators (minimulariace Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plantomorphic Position (D2) C-Neutral Test (D5)	m of two require C2) Il Imagery (C9) s (D1)

D.2 HHEI/QHEI DATA FORMS

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# Ohio	Emelog	INTERPOLATION OF THE PERSON OF

Headwater Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+

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Ohio Environmental Protection Agency	HHEI Score (sum of metrics 1+2+3)
DATE 4/19/23 SCORER Gille He COMMENTS NOTE: Complete All Items On This Form - Refer to "Headwate	RIVER CODE DRAINAGE AREA (MP) 0,85m/ 4 LONG 83,57950 Z RIVER MILE
1. SUBSTRATE (Estimate percent of every type present). Che (Max of 32), Add total number of significant substrate types for TYPE PERCENT TYPE BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts] BEDROCK [16 pts] COBBLE (65-256 mm) [12 pts] GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts] Total of Percentages of Bkdr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES:	
2. Maximum Pool Depth (Measure the maximum pool depth witime of evaluation. Avoid plunge pools from road culverts or stored to be sometime of evaluation. Avoid plunge pools from road culverts or stored to be sometime. Some some some some some some some some s	, ,
COMMENTS	MAXIMUM POOL DEPTH (centimeters): 15
3. BANK FULL WIDTH (Measured as the average of 3 - 4 meas > 4.0 meters (> 13') [30 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8")[15 pts] Width
3. BANK FULL WIDTH (Measured as the average of 3 - 4 measured as the 3 - 4 measured as t	surements) (Check ONLY one box): Bankful
3. BANK FULL WIDTH (Measured as the average of 3 - 4 measured as t	Surements (Check ONLY one box) Bankful Width St. 1.0 m - 1.5 m (> 3' 3° - 4' 8°)[15 pts] Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3 - 4 measured as t	Surements) (Check ONLY one box) > 1.0 m - 1.5 m (> 3′ 3° - 4′ 8°)[15 pts] ≤ 1.0 m (≤ 3° 3°)[5 pts] AVERAGE BANKFULL WIDTH (meters) Tust also be completed OTE: River Left (L) and Right (R) as looking downstream. QUALITY (Most Predominant per Bank) L R st, Wetland Conservation Tillage rest, Shrub or Old Field Urban or Industrial Park, New Field Open Pasture, Row Crop
3. BANK FULL WIDTH (Measured as the average of 3 - 4 measured as t	Bankful Width > 1.0 m - 1.5 m (> 3° 3° - 4° 8°)[15 pts] ≤ 1.0 m (≤ 3° 3°) [5 pts] AVERAGE BANKFULL WIDTH (meters) AVERAGE BANKFULL WIDTH (meters) The state of the state
3. BANK FULL WIDTH (Measured as the average of 3 - 4 measured as t	Surements) (Check ONLY one box): > 1.0 m - 1.5 m (> 3' 3" - 4' 8")[15 pts] ≤ 1.0 m (≤ 3' 3")[5 pts] AVERAGE BANKFULL WIDTH (meters) AVERAGE BANKFULL WIDTH (meters) DITE: River Left (L) and Right (R) as looking downstream. QUALITY (Most Predominant per Bank) L R St, Wetland Conservation Tillage rest, Shrub or Old Field Urban or Industrial Park, New Field Open Pasture, Row Crop ure Mining or Construction one box): Moist Channel, isolated pools, no flow (intermittent) Dry channel, no water (ephemeral)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):

QHEI PERFORMED? Yes □ No QHEI Score 44.5 (If Ye	s, Attach Completed QHEL form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name: Scioto Qiver	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATER SH	
USGS Quadrangle Name: Mt. Victory NRCS Soil Map Pa	
County: Hardin Township/City: K	
MISCELLANEOUS	
Base Flow Conditions? (Y/N): Y Date of last precipitation: 4/17/2	Quantity: 0,05
Photo-documentation Notes:	
Elevated Turbidity?(Y/N): Canopy (% open):	<u>, , , , , , , , , , , , , , , , , , , </u>
Were samples collected for water chemistry? (Y/N): Lab Sample # 6	or ID (attach results):
Field Measures:Temp (°C) 13,8 Dissolved Oxygen (mg/l) pH (S	
Is the sampling reach representative of the stream (Y/N) If not, explain:	
Additional comments/description of pollution impacts:	
•	
BIOLOGICAL OBSERVATIONS	
(Record all observations below) Fish Observed? (Y/N) Species observed (if known):	
Frogs or Tadpoles Observed? (Y/N) Species observed (if known):	
Salamanders Observed? (Y/N) Species observed (if known):	
Aguatic Macroinvertebrates Observed? (Y/N) Species observed (if known	
Comments Regarding Biology: Not Conducted	
Common Regulating Exclosing Exclosin	
DRAWING AND NARRATIVE DESCRIPTION OF STRE	
- lust min	
Marntaine	un rittle
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Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

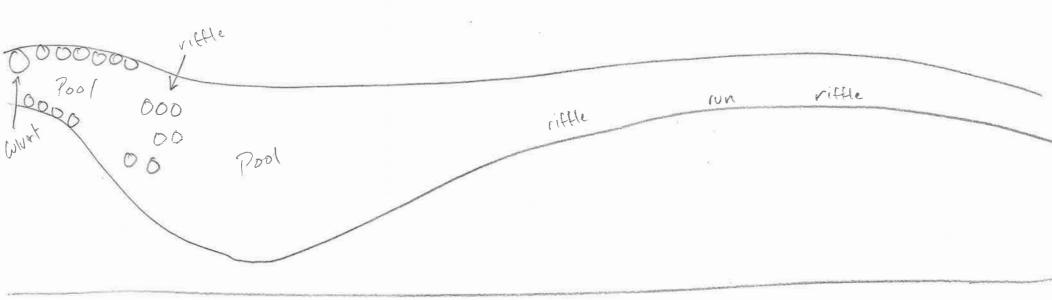
	422	3
OUT Coors	44.5	
QHEI Score:	11.0	

Stream & Location: South Kenton Station Expansion Project RM: Date: 4/19/08/23
Scorers Full Name & Affiliation: Tyler Gillett. ISLANTEC.
River Code: STORET #: Lat./Long.: 40 . 61% 254 183 . 579502 Office verified location
1] SUBSTRATE Check OWLY Two substrate TYPE BOXES; estimate % or note every type present Check ONE (Or 2 & average)
BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE ORIGIN QUALITY
□ □ BLDR /SLABS [10] □ □ HARDPAN [4] □ LIMESTONE [1] □ HEAVY [-2]
□□ BOULDER [9] □□ □□ DETRITUS [3] <u>Lo</u> (o MTILLS [1] SILT □ MODERATE [-1] Substrate □□ COBBLE [8] <u>40</u> □□ MUCK [2] □□ □ WETLANDS [0] SILT □ MODERATE [-1] Substrate
☐ 【 GRAVEL [7]
SAND [6] SAND [6] SANDSTONE [0] SANDSTONE [0] SANDSTONE [0] SANDSTONE [0] SANDSTONE [-2] SANDSTONE [0] SANDSTONE [0] SANDSTONE [0] SANDSTONE [-2] SANDSTONE [0] SANDSTONE
NUMBER OF BEST TYPES: 4 or more [2] sludge from point-sources) LACUSTURINE [0] VS NORMAL [0] 20
Comments Shale [-1] NONE [1] COAL FINES [-2]
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal AMOUNT
quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest
diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools. EXTENSIVE >75% [11]
DUNDERCUT BANKS [1] DOOLS > 70cm [2] DOSBOWS, BACKWATERS [1] DOODERATE 25-75% [7] DOVERHANGING VEGETATION [1] DOOTWADS [1] LAQUATIC MACROPHYTES [1] SPARSE 5-<25% [3]
○ SHALLOWS (IN SLOW WATER) [1] BOULDERS [1] LOGS OR WOODY DEBRIS [1] NEARLY ABSENT <5% [1]
O ROOTMATS [1] Cover
Comments Maximum 20
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)
SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY
☐ HIGH [4] ☐ EXCELLENT [7] ☐ NONE [6] ☐ HIGH [3] ☐ MODERATE [3] ☐ GOOD [5] ☐ RECOVERED [4] ☑ MODERATE [2]
LOW [2] FAIR [3] RECOVERING [3] LOW [1]
□ NONE [1] □ POOR [1] □ RECENT OR NO RECOVERY [1] Channel Comments Channel Maximum
20
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average) River right looking downstream RIPARIAN WIDTH FLOOD PLAIN OLIALITY
River right looking downstream RIPARIAN WIDTH FLOOD PLAIN QUALITY EROSION
□ □ NONE / LITTLE [3] □ □ MODERATE 10-50m [3] □ □ SHRUB OR OLD FIELD [2] □ □ URBAN OR INDUSTRIAL [0]
☑ MODERATE [2] ☐ NARROW 5-10m [2] ☑ ☐ RESIDENTIAL, PARK, NEW FIELD [1] ☐ MINING / CONSTRUCTION [0] ☐ HEAVY / SEVERE [1] ☐ VERY NARROW < 5m [1]
☑ NONE [0] ☐ ☑ OPEN PASTURE, ROWCROP [0] past 100m riparian. Riparian
Comments Maximum 10
5] POOL / GLIDE AND RIFFLE / RUN QUALITY
MAXIMUM DEPTH CHANNEL WIDTH CURRENT VELOCITY Recreation Potential
Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply Primary Contact □ > 1m [6] □ POOL WIDTH > RIFFLE WIDTH [2] □ TORRENTIAL [-1] □ SLOW [1] Secondary Contact
□ 0.7.<1m [4]
□ 0.4-<0.7m [2]
☑ < 0.2m [0] Indicate for reach - pools and riffles. Current
Comments Maximum 12
Indicate for functional riffles; Best areas must be large enough to support a population Of riffle-obligate species: Check ONE (Or 2 & average) IND RIFFLE [metric=0]
of riffle-obligate species: Check ONE (Or 2 & average). LIND RIFFLE [Metric=U] RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS
☐ BEST AREAS > 10cm [2] ☐ MAXIMUM > 50cm [2] ☐ STABLE (e.g., Cobble, Boulder) [2] ☐ NONE [2]
□ BEST AREAS 5-10cm [1] ☑ MAXIMUM < 50cm [1] ☑ MOD, STABLE (e.g., Large Gravel) [1] □ LOW [1] □ LOW [1] □ UNSTABLE (e.g., Fine Gravel, Sand) [0] □ MODERATE [0]
[metric=0]
EL COADUCAIT
6] GRADIENT ([4.7 ft/mi) VERY LOW - LOW [2-4]
Maximum (1.49 miz) 内 HIGH - VERY HIGH [10-6] %RUN: (つ) %RIFFLE: (し) Maximum 10

Check A	LL that apply	PH 4.1		7	2 2	¥1
METHOD BOAT WADE L. LINE OTHER DISTANCE	STAGE 1st -sample pass - 2nd - HIGH UP - NORMAL LOW DRY -	Conductivity .78 Temp 13.4°	78			
OTHER	2ndcm	B] AESTHETICS □ NUISANCE ALGAE ☑ INVASIVE MACROPHYTES □ EXCESS TURBIDITY □ DISCOLORATION □ FOAM / SCUM □ OIL SHEEN □ TRASH / LITTER □ NUISANCE ODOR □ SLUDGE DEPOSITS □ CSOs/SSOs/OUTFALLS [ATION AREA DEPTH POOL: □ > 100ft² □ > 3ft	D] MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE	Circle some & COMMENT	EJISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION / SURFACE FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / AWN HOME ATMOSPHERE / DATA PAUCITY	F) MEASUREMENTS \overline{\tilde{x}} width 2' \overline{\tilde{x}} depth 6" \overline{x} bankfull width 5 \overline{bankfull} \overline{x} depth 2' \overline{W/D} ratio \overline{bankfull} max. depth \overline{floodprone x^2} width \overline{entrench. ratio} \overline{Legacy Tree:}

Stream Drawing:

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11/18/2025 4:02:31 PM

in

Case No(s). 25-1022-EL-BLN

Summary: Application LON, South Kenton-Westminster and North Waldo-South Kenton Project. electronically filed by Hector Garcia-Santana on behalf of AEP Ohio Transmission Company, Inc..