

BOUNDLESS ENERGY"

**Legal Department** 

American Electric Power 1 Riverside Plaza Columbus, OH 43215-2373 AEP.com

April 9, 2021

Ms. Tanowa Troupe, Secretary Ohio Power Siting Board 180 East Broad Street Columbus, Ohio 43215-3793

Re: In the Matter of the Letter of Notification Application of AEP Ohio Transmission Company, Inc. for a Certificate of Environmental Compatibility and Public Need for the West Moulton-Gemini 138 kV Transmission Line Project Case No. 21-0167-EL-BLN

Dear Ms. Troupe,

On March 12, 2021, AEP Ohio Transmission Company, Inc. (the "Company") filed its Letter of Notification Application for the above-referenced Project. In its Application, the Company noted that it was unable to complete a field survey for a portion of the Project located between Canning Factory Road and US 33 as part of its overall survey for the Project. The Company stated that the survey for this area would be completed in March 2021 and the results would be docket as soon as they were available.

The Company hereby files this notice and the attached Addendum Wetland Delineation and Stream Assessment Report, which updates the field survey results for the portion of the Project located between Canning Factory Road and US 33, consistent with its Application.

If you have any questions, please do not hesitate to contact me.

Respectfully submitted,

<u>/s/ Tanner S. Wolffram</u> Christen M. Blend (0086881), Counsel of Record Tanner S. Wolffram (0097789) Counsel for AEP Ohio Transmission Company, Inc.

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cc: Jon Pawley

# WEST MOULTON-GEMINI 138 KV TRANSMISSION LINE PROJECT AUGLAIZE COUNTY, OHIO

## ADDENDUM WETLAND DELINEATION AND STREAM ASSESSMENT REPORT

Prepared for:

American Electric Power Ohio Transmission Company 8600 Smiths Mill Road New Albany, Ohio 43054



Prepared by:



525 Vine Street, Suite 1800 Cincinnati, Ohio 45202

Project #: 60567997

March 2021

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### 1.0 INTRODUCTION

AECOM Technical Services, Inc. (AECOM) is providing various permitting support for American Electric Power Ohio Transmission Company (AEP Ohio Transco) as part of the Wapakoneta Improvements Project. As part of the overall improvements, AEP Ohio Transco is proposing to construct approximately 10-miles of a greenfield 138 kV transmission line between West Moulton and Gemini Stations in Auglaize County, Ohio (Project). Since the completion of the original wetland delineation and stream assessment report, AEP Ohio Transco required a re-route of a 2.1-mile portion of the Project between US Route 33 and Canning Factory Road, as well as the addition of two access roads (totaling approximately 0.28 miles) in Auglaize County, Ohio (Figure 1). AEP Ohio Transco retained AECOM Technical Services, Inc. (AECOM) to survey a 150-foot buffer of the 2.1-mile re-route and a 25-foot buffer of the two new 0.14-mile access road, producing a Greenfield Project survey corridor of approximately 23.4 acres. Results of the field survey are included within this report.

As a reference, AECOM has also included the identified features along the Project that was originally provided within the *West Moulton-Gemini 138 kV Transmission Line Project – March 2021* (March 2021 – Report) within the text and tables. Previously identified features, data forms, photographs, and supporting information of the previous surveys of the Project are contained within the March 2021 - Report.

This addendum wetland delineation and stream assessment report includes the results (data forms, photographs, and updated figures) associated with wetlands and/or streams identified within the survey corridor of the Project. Due to potential overlap between the new and previously delineated features, the extent of delineated features and survey corridors (new and previously identified) are displayed on the attached figures within the extent of the Project.

### 2.0 METHODOLOGY

A comprehensive methodology of the field surveys and data reviews completed for this report are included within the March 2021 – Report and a brief summary of the delineation and agency coordination methodology has been provided below.

Delineations were conducted in accordance with the procedures outlined in the U.S. Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual (1987 Manual) (Environmental Laboratory, 1987), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (USACE, 2010). In addition, any wetlands were classified using the Ohio Environmental Protection Agency (OEPA) Ohio Rapid Assessment Method for Wetlands v. 5.0 (ORAM). Stream assessments were conducted using the methods described in the OEPA's Methods for Assessing Habitat in Flowing Waters: Using OEPA's Qualitative Habitat Evaluation Index (Rankin, 2006) and in the OEPA's Field Methods for Evaluating Primary Headwater Streams in Ohio (OEPA, 2018).

Initial coordination from the U.S. Fish and Wildlife Service (USFWS) and Ohio Department of Natural Resources (ODNR) was received in March 2018. AECOM supplemented the original agency coordination with inquires to the USFWS Information for Planning and Consultation (IPaC) online tool in February 2021 to obtain an up-to-date list of federally listed species that may occur within the Project corridor. Additionally, AECOM reviewed the county list of rare, threatened, and endangered species from the ODNR website.

### 3.0 RESULTS

In March 2021, AECOM ecologists walked the Survey Corridor to conduct the wetland delineation, stream assessment and habitat survey. Within the survey corridor, one previously delineated wetland (Wetland 06) and one previously identified stream (Stream 01) were extended, and a new wetland (Wetland 15) was delineated. Data forms and photographs for the new and extended features within the Project Survey Corridor are included in Appendix A, B, C, and D. Data forms, photographs, and additional information on all other previously delineated features are contained within the March 2021 – Report.

### 3.1 WETLAND DELINEATION

### 3.1.1 Preliminary Soils Evaluation

Soils were observed and documented as part of the delineation methodology. No new soil map units were identified during the field survey of the March 2021 – Addendum Project Survey Corridor in March 2021. A list of Soil map units identified within the Project Survey Corridor is provided in the March 2021 – Report.

### 3.1.2 National Wetland Inventory Map Review

According to the NWI data covering the Project location, the March 2021 – Addendum Project Survey Corridor contains two mapped NWI wetlands. The locations of the two mapped NWI wetlands located within the March 2021 – Addendum Project Survey Corridor are described below and illustrated on Figure 2:

- One palustrine, emergent, persistent, seasonally flooded, diked/impounded (PEM1Ch)
  - No features identified; documented as Upland 06 (See Figure 2B).
- One riverine, lower perennial, unconsolidated bottom, permanently flooded (R2UBH)
  - Features identified: Stream 01 (See Figure 2C).

### 3.1.3 Delineated Wetlands

During the field survey, AECOM identified one new wetland (Wetland 15) and extended one previously delineated wetland (Wetland 06) within the March 2021 – Addendum Project Survey Corridor. Wetland 15 (approximately 0.04 acres) was delineated as a PEM wetland and was identified as a Category 1 wetland with an ORAM score of 10. Wetland 15 exhibited medium upland buffers, low to moderately high intensive surrounding land use (e.g. old field, residential areas), an extensive percentage of invasive species, and

had habitat and hydrology generally recovered to recent or no recovery from previous manipulation due to filling/grading, installation of ditches and tile, road bed, sedimentation, mowing, and farming.

The boundary of the previously delineated Wetland 06 was extended into the March 2021 – Addendum Project Survey Corridor. The total delineated area of Wetland 06 is now approximately 0.76 acres within the survey corridors and the extension did not result in a change of the ORAM score and/or Category. The remaining wetlands (Wetlands 01-05, and 07-14b) were identified within the March 2021 – Report and are included within Tables 1 and 2 as a reference. Data forms, photographs, location, and additional information on all previously delineated features are contained within the March 2021 – Report. The locations of the delineated features are provided in Figure 3.

AECOM provided a preliminary classification of jurisdictional status for each wetland based upon the 2020 Navigable Waters Rule. Typically, wetlands that are not hydrologically connected to another WOTUS such as an intermittent or perennial stream, are not considered WOTUS themselves. Wetland 15 is preliminary identified as "isolated" and final jurisdictional status can only be determined by the USACE.

Wetland Name	Latitude	Longitude	Cowardin Wetland Type <sup>a</sup>	RRIDOR Provisional Jurisdictional Status	ORAM Score	ORAM Category	Length Crossed by Centerline (feet) <sup>b</sup>	Acreage within Project Survey Corridor
Wetland 01	40.540491	-84.192218	PEM	Isolated	19.5	Category 1	13	0.03
Wetland 02	40.540392	-84.197431	PFO	Isolated	28	Category 1	NC	0.15
Wetland 03	40.548029	-84.207178	PFO	Adjacent	40	Category 2	3	0.08
Wetland 04	40.548019	-84.210778	PFO	Isolated	32	Category 2	NC	0.07
Wetland 05	40.547978	-84.211947	PFO	Isolated	31.5	Category 2	86	0.26
Wetland 06	40.561041	-84.221495	PEM	Adjacent	29	Category 1	<mark>129</mark>	<mark>0.76</mark>
Wetland 07	40.561872	-84.297657	PEM	Isolated	15.5	Category 1	36	0.02
Wetland 08	40.561215	-84.302407	PFO	Isolated	35.5	Category 2	NC	0.09
Wetland 09	40.561212	-84.302930	PSS	Isolated	34.5	Category 2	NC	0.04
Wetland 10	40.561024	-84.304189	PFO	Isolated	31	Category 2	NC	0.05
Wetland 11	40.561005	-84.305662	PFO	Isolated	32	Category 2	NC	0.03
Wetland 12	40.553770	-84.332480	PSS	Isolated	26	Category 1	NC	0.52
Wetland 13	40.553635	-84.334922	PFO	Isolated	23	Category 1	NC	0.04
Wetland 14a	40.552946	-84.340537	PEM	Isolated	26	Category 1	NC	0.43
Wetland 14b	40.553340	-84.340602	PSS	Isolated	26	Category 1	NC	0.05
Wetland 15	<mark>40.5595</mark>	-84.219783	PEM	<b>Isolated</b>	<mark>10</mark>	Category 1	NC	<mark>0.04</mark>
Total Wetlands:	15 (4 PEM, 8 PFC	), 2 PSS, and <sup>2</sup>	1 PEM/PSS)				267	2.66

TABLE 1 DELINEATED WETLANDS WITHIN THE WEST MOULTON-GEMINI 138 kV TRANSMISSION LINE PROJECT SURVEY



TABLE 1 DELINEATED WETLANDS WITHIN THE WEST MOULTON-GEMINI 138 kV TRANSMISSION LINE PROJECT SURVEY CORRIDOR

Wetland Name	Latitude	Longitude	Cowardin Wetland Typeª	Provisional Jurisdictional Status	ORAM Score	ORAM Category	Length Crossed by Centerline (feet) <sup>b</sup>	Acreage within Project Survey Corridor
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Cowardin Wetland Type<sup>a</sup> : PEM = palustrine emergent, PFO = palustrine forested, PSS = palustrine scrub/shrub

Linear Feet Crossed by Centerline (feet)<sup>b</sup>: NC = Not Crossed by proposed centerline

Isolated = Isolated not a WOTUS under the 2020 Navigable Waters Rule; Adjacent = Adjacent wetland is a WOTUS under the 2020 Navigable Waters Rule. Final jurisdictional can only be determined by the USACE

NOTE: Cells highlighted in yellow indicate changes to the information provided in the March 2021 - Report

 TABLE 2

 DELINEATED WETLANDS SUMMARIZED BY COWARDIN AND ORAM TYPE WITHIN THE WEST MOULTON-GEMINI 138

 kV TRANSMISSION LINE PROJECT SURVEY CORRIDOR

Cowardin Wetland Type <sup>a</sup>	ORAM Category 1	ORAM Category 2	ORAM Category 3	Number of Wetlands	Acreage within Project Survey Corridor	Length Crossed by Centerline (feet) <sup>b</sup>
PEM	<mark>4</mark>	0	0	<mark>4</mark>	0.85	<mark>178</mark>
PFO	2	6	0	8	0.77	89
PSS	1	1	0	2	0.56	NC
PEM/PSS complex	1	0	0	1	0.48	NC
Acreage per ORAM Category	2.04 acres	0.62 acres	0 acres	NA	NA	NA
Total	8	7	0	<mark>15</mark>	<mark>2.6</mark> 6	<mark>267</mark>

Cowardin Wetland Typea : PEM = palustrine emergent, PSS= palustrine shrub/scrub, PFO = palustrine forested

Linear Feet Crossed by Centerline (feet)<sup>b</sup>: NC = Not Spanned by centerline

NOTE: Cells highlighted in yellow indicate changes to the information provided in the March 2021 - Report

### 3.2 STREAM CROSSINGS

Streams identified in the March 2021 – Addendum Project Survey Corridor include one perennial stream (Stream 01) which was extended by 372 linear feet from the previously surveyed segments included in the March 2021 – Report. The extended segment of Stream 01 within the March 2021 – Addendum Project Survey Corridor exhibited similar channel conditions and flow regime as the previously surveyed upstream portion that was identified in the March 2021 – Report; therefore, an additional data form was not warranted. New photographs were collected at the new proposed stream crossing and are provided in Appendix D. The previously completed QHEI data form for Stream 01 is provided in Appendix C. The remaining streams identified within the March 2021 - Report (Streams 02-04) are included within Table 3 as reference. Data forms, photographs, location, and additional information on all previously delineated features are contained within the March 2021 - Report. Figure 3 within this addendum report provides the location of the new stream segments identified within the March 2021 – Addendum Project Survey Corridor.

AECOM has preliminarily determined that the assessed intermittent and perennial streams within the Project corridor appear to be jurisdictional (i.e., WOTUS), based on the 2020 Navigable Waters Rule. No

ephemeral streams were identified within the March 2021 – Addendum Project Survey Corridor. Final jurisdictional status can only be determined by the USACE and AECOM assessment are preliminary.

		STREAM	STREAMS IDENTIFIED WITHIN	WITHIN WE	ST MOULTON	WEST MOULTON-GEMINI 138 KV TRANSMISSION LINE PROJECT SURVEY CORRIDOR	TRANSMIS	SION LINE P	ROJECT	SURVEY (	CORRIDOR		
Stream Report Name	Latitude	Longitude	Waterbody	401 WQC Eligibility	Flow Regime	Provisional Jurisdictional Status	Bankfull Width (feet)	Maximum Pool Depth (in)	Form <sup>a</sup>	Score <sup>b</sup>	Class/ Narrative Rating*	Crossed by Centerline	Length (feet) within Project Survey Corridor
Stream 01	40.556293	-84.212667	Pusheta Creek	Eligible	Perennial	Tributary	25	20	QHEI	61	Good Warmwater	Yes	1,444
Stream 02	40.5626585	- 84.2263986	Owl Creek	Eligible	Perennial	Tributary	10	8	QHEI	38	Poor Warmwater	Yes	229
Stream 03	40.5613743	- 84.3078509	Tributary to Sixmile Creek	Eligible	Intermittent	Tributary	3	4	HHEI	37	Modified Small Drainage Warmwater Stream	No	255
Stream 04	40.5535248	- 84.3374128	Tributary to East Branch	Eligible	Ephemeral	Ephemeral	2	2	ННЕІ	27	Modified Ephemeral Stream	Yes	156
Total Str	eams: 4 (two <sub>f</sub>	Total Streams: 4 (two perennial, one intermittent, and one	intermittent, a		ephemeral)								<mark>2,084</mark>

**TABLE 3** 

Form Used<sup>a</sup>: QHEI = Qualitative Habitat Evaluation Index, HHEI = Headwater Habitat Evaluation Index, NA = Not Assessed (default to the State of Ohio's assessment) \* = Narrative description is based on Ohio Environmental Protection Agency's ranking. See Ohio Administrative Code 3745-1-07 Provisional Jurisdictional Status is based upon the 2020 Navigable Waters Rule. Ephemeral = Not a WOTUS; Tributary = WOTUS by definition NOTE: Cels highlighted in <mark>yellow</mark> indicate changes to the lengths provided in the March 2021 – Report

### 3.2.1 OEPA STREAM ELIGIBILITY

OEPA stream eligibility for 401 Water Quality Certification mapping was reviewed for all of the field identified streams. The March 2021 – Addendum Project Survey Corridor occurs in one subwatershed (Pusheta Creek, 041000070104) designated by 401 WQC eligibility. A list of all watersheds within the Project Survey Corridors are provided within Table 5 of the March 2021 – Report. The watershed is designated "Eligible". OEPA stream eligibility mapping for the Project vicinity, with field identified streams, is provided on Figure 4.

### 3.3 PONDS

No Ponds were identified within the Greenfield Routes and/or Re-Route survey corridor.

### 3.4 VEGETATIVE COMMUNITIES WITHIN THE PROJECT SURVEY CORRIDOR

AECOM ecologists conducted a general habitat survey in conjunction with the stream and wetland field surveys in March 2021. Portions of the March 2021 – Addendum Project Survey Corridor were identified as agricultural land, landscaped area, mixed mesophytic forest, streams/wetlands, and urban areas. Habitat descriptions, applicable to the Project, and details on the expected impacts of construction are provided below in **Table 4**. Vegetated land cover can be seen visually from aerial photography provided on **Figure 5**.

Vegetative Community	Description	Approximate Acreage Within the Project Survey Corridor	Approximate Percentage Within the Project Survey Corridor (%)
Agricultural Land	Agricultural land consisting of soybean and corn fields was present along the Project Survey Corridor. The agricultural land contains row crops and is not used for pasture or hay fields.	15.4	65.8
Landscaped Areas	Landscaped areas, including residential properties, were observed within the Project vicinity. These landscaped areas within the Project Survey Corridor and adjacent areas are frequently mowed grasses and forbs.	2.5	10.7
Mixed Mesophytic Forest	Mixed mesophytic forests are present along the Project Survey Corridor. Woody species dominating these areas included shagbark hickory ( <i>Carya ovata</i> ), red maple ( <i>Acer rubrum</i> ), black cherry ( <i>Prunus serotina</i> ), pin oak ( <i>Quercus palustris</i> ), silver maple ( <i>Acer saccharinum</i> ), American sycamore ( <i>Platanus occidentalis</i> ), shellbark hickory ( <i>Carya laciniosa</i> ), white oak ( <i>Quercus alba</i> ), slippery elm ( <i>Ulmus rubra</i> ), and honeylocust ( <i>Gledista triacanthos</i> ). The dominant shrub-layer species included green ash ( <i>Fraxinus pennsylvanica</i> ), Morrow's honeysuckle ( <i>Lonicera morrowii</i> ), silky dogwood ( <i>Cornus amomum</i> ), and Allegheny blackberry ( <i>Rubus allegheniensis</i> ).	4	17
Streams/Wetlands	Streams and wetlands were observed both within and beyond the survey corridor for the Project.	0.98	4.2

 TABLE 4

 VEGETATIVE COMMUNITIES WITHIN THE WEST MOULTON-GEMINI 138 kV TRANSMISSION LINE PROJECT - MARCH

 2021 – ADDENDUM PROJECTSURVEY CORRIDOR

 TABLE 4

 VEGETATIVE COMMUNITIES WITHIN THE WEST MOULTON-GEMINI 138 kV TRANSMISSION LINE PROJECT - MARCH

 2021 – ADDENDUM PROJECTSURVEY CORRIDOR

Vegetative Community	Description	Approximate Acreage Within the Project Survey Corridor	Approximate Percentage Within the Project Survey Corridor (%)
Urban	Urban areas are areas developed with residential and commercial land uses, including roads, buildings and parking lots. These areas are generally devoid of significant woody and herbaceous vegetation.	0.54	2.3
Totals:		23.42	100

Note: See March 2021 - Report for the total acreage of land use along the West Moulton-Gemini 138 kV Transmission Line Project Survey Corridor.

### 3.5 RARE, THREATENED AND ENDANGERED SPECIES AGENCY COORDINATION

### Protected Species Agency Consultation -

Correspondence for state and federal listed species were completed as part of the original project and included within the March 2021 - Report. AECOM reviewed these previous correspondences with the USFWS and ODNR to identify if the potential presence of listed species and/or their habitat within the new work areas associated with the Project. Based on the due-diligence review, the March 2021 – Addendum Project Survey Corridor presents potentially suitable habitat for the state and federally threatened Indiana bat and the state and federally threatened northern long-eared bat. This is consistent with the findings in the March 2021 – Report, as AECOM identified potentially suitable habitat for these bat species. The USFWS commented that due to the project type, size, and location, plus the proposal for seasonal tree cutting between October 1 and March 31, there should be no adverse effects to the Indiana bat and recommends seasonal tree clearing to be completed between October 1 and March 31. If seasonal tree clearing is not feasible, the ODNR-DOW requires mist nest surveys to be completed prior to construction and between June 1 and August 15. An overview/summary of ODNR and USFWS Listed Species within the Project Survey Corridor is provided within the March 2021 – Report.

As time has lapsed since the initial correspondence with these regulatory agencies, AECOM completed an additional review to identify if new species were added to the federal and/or state list by completing an IPaC report and reviewing state-listed species on the ODNR website.

The results from the IPaC report of the March 2021 – Addendum Project Survey Corridor did not identify any additional federally listed species. However, the ODNR guidance issued in June 2020 identified the northern long-eared bat (*Myotis septentrionalis*), little brown bat (*Myotis lucifugus*), and tricolored bat

(*Perimyotis subflavus*) as state endangered as of July 1, 2020<sup>1</sup>. Potentially suitable habitat (woodlands) for these bat species was identified within the March 2021 – Addendum Project Survey Corridor. As the northern long-eared bat and Indiana bat were previously listed and included as an avoidance measure within the March 2021 - Report, no additional recommendations and/or avoidance measures would likely be required. *As the little brown bat and the tricolored bat were not previously identified, Table 5 within this addendum report provides additional information regarding potential agency response and/or avoidance recommendations.* The completed IPaC report and ODNR June 2020 guidance are provided in Appendix D.

The DOW indicated that the Project is within the range of the lark sparrow, a state endangered bird. The sparrow nests in grassland habitats with scatted shrub layers, disturbed open areas, and patches of bare soil. The DOW stated if potential habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 to June 30. AECOM completed a field assessment within the Project area on May 26, 2020 for potential habitat for the Lark Sparrow. Prior to conducting the field assessment component of the habitat assessment, AECOM conducted a desktop review. The information reviewed included the ODNR coordination information regarding the Lark Sparrow and its habitats within the vicinity of the Project area and a literature review to identify if the species may be present based on range, habitat needs, and natural history. AECOM also completed a desktop analysis of habitat using Google Earth aerial photography, National Land Cover Classification data, eBird database, and the proposed limits of disturbance for the Project. Based on the desktop review, target areas of habitat were identified for detailed assessment in the field. While the entire Project area was visited, the areas identified as potential habitat during the desktop review were given greater concentration. These areas were used to identify if areas of suitable habitat were available that could be used by the Lark Sparrow. Where applicable, the adjacent habitats were considered when evaluating potential habitat. No habitat was identified within or adjacent to the Project area for the Lark Sparrow. The Project area consists of primarily agricultural fields with a mix of forested and urban areas. Due to the absence of potentially suitable nesting habitat for the lark sparrow, presence/absence surveys for this species in the Project area are not likely warranted. The Habitat Assessment for Lark Sparrow report is provided under separate cover. AEP Ohio Transco will coordinate the Lark sparrow field assessment results with ODNR for confirmation of absence of habitat in the Project area.

Furthermore, the initial review and response from the USFWS and ODNR was associated with the entire extent of the existing corridor associated with the Project area as described in the March 2021 - Report. As the areas included within this addendum are located within the Project area submitted to the agencies, the previous agency correspondence and recommendations are considered valid for these additional areas.

<sup>&</sup>lt;sup>1</sup> Ohio Division of Wildlife Guidance for Bat Surveys and Tree Clearing June 2020.

AECOM

				Y CORRIDOR		
Common Name (Scientific Name)	State Listed Status	Federal Listed Status	Typical Habitat Description	Habitat Observed	Agency Comments	Potential Impacts and Avoidance Dates
Mammals						
Little brown bat ( <i>Myotis</i> <i>lucifugus</i> )	Endangered	Ч И	The little brown bat shares similar habitat requirements as other Myotis species including the Indiana bat and northern long-eared bat. This species may roost in trees, attics, or other man-made structures during the summer season. In winter, they may hibernate in caves, mines, or man-made structures with appropriate temperature regimes.	Yes-Within the Project Survey Corridors, Several wooded areas were identified which appears to be potentially suitable habitat. Additionally, during the field survey, no caves or mines were identified in the Project area.	No comments regarding this species were received from the ODNR	No comments regarding this species were received from the ODNR. Based on recent comments from ODNR for another project, ODNR may recommend seasonal tree clearing to be completed between October 1 and March 31 to avoid adverse impacts to this species. ODNR may also recommend that a desktop habitat assessment, followed by a field assessment (if needed), be conducted to determine if there are potential hibernaculum(a) present within the project area. According the ODNR Division of Mineral Resources data, no mines or caves are mapped in the Project area.
Tricolored bat ( <i>Perimyotis</i> subflavus)	Endangered	A N	The tricolored bat primarily roosts in trees during the summer months. During winter, this species hibernates in humid mines, caves, and occasionally man- made structures.	Yes-Within the Project Survey Corridors, several wooded areas were identified which appears to be potentially suitable habitat. During the field survey, no caves or mines were identified in the Project area	No comments regarding this species were received from the ODNR.	No comments regarding this species were received from the ODNR. Based on recent comments from ODNR for another project, ODNR may recommend seasonal tree clearing to be completed between October 1 and March 31 to avoid adverse impacts to this species. ODNR may also recommend that a desktop habitat assessment, followed by a field assessment (if needed), be conducted to determine if there are potential hibernaculum(a) present within the project area. According the ODNR Division of Mineral Resources data, no mines or caves are mapped in the Project area.

# TABLE 5 ADDITIONAL ODNR LISTED SPECIES WITHIN THE WEST MOULTON-GEMINI 138 KV TRANSMISSION LINE PROJECT SURVEY CORRIDOR AND MARCH 2021 – ADDENDUM

AEP Ohio Transco March 2021

West Moulton-Gemini 138 kV Transmission Line Project-Addendum

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AECOM

Potential Impacts and Avoidance Dates	ODNR-DOW stated that the project is within the range of the lark sparrow and if this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 to June 30. If this habitat will not be impacted, the project is not likely to impact this species.					
Agency Comments	AECOM completed field assessment within the Project area on May 26, 2020 for potential habitat for the Lark Sparrow. No habitat was identified within or adjacent to the Project area for the Lark Sparrow. The Project area consists of primarily agricultural fields with a mix of forested and urban areas					
Habitat Observed	°Z					
Typical Habitat Description	This species nests in grassland habitats with scattered shrub layers, disturbed open areas, as well as patches of bare soil. These summer residents normally migrate out of Ohio shortly after their young fledge or leave the nest.					
Federal Listed Status	None					
State Listed Status	Endangered					
Common Name (Scientific Name)	Lark Sparrow ( <i>Chondestes</i> grammacus)					

TABLE 5 ADDITIONAL ODNR LISTED SPECIES WITHIN THE WEST MOULTON-GEMINI 138 KV TRANSMISSION LINE PROJECT SURVEY CORRIDOR AND MARCH 2021 – ADDENDUM

### 4.0 SUMMARY

The March 2021 – Addendum Project Survey Corridor includes the wetland delineation and stream assessment results of a re-route of a 2.1-mile portion of the Project between US Route 33 and Canning Factory Road, as well as the addition of two access roads (totaling approximately 0.28 miles) in Auglaize County, Ohio (Figure 1). Identified wetlands and streams within the original wetland delineation and stream assessment report, *West Moulton-Gemini 138 kV Transmission Line Project – Wetland Delineation and Stream Assessment Report - March 2021*, are included within this addendum Tables 1-3. All other previous identified features, data forms, photographs, and supporting information from this previous survey is provided within the March 2021 – Report. As a result of the additional delineation, one previously delineated wetland (Wetland 06) and one previously identified stream (Stream 01) were extended, and one new wetland (Wetland 15) was delineated within the March 2021 – Addendum Project Survey Corridor. . No new ponds were identified within the March 2021 – Addendum Project Survey Corridor.

AECOM has preliminarily determined that the assessed perennial stream within the March 2021 – Addendum Project Survey Corridor appears to be jurisdictional (i.e., WOTUS.), based on the 2020 Navigable Waters Rule. Wetland 15 has been provisionally as "isolated" and not a WOTUS. Final jurisdictional status of the identified waterbodies can only be determined by the USACE.

The March 2021 – Addendum Project Survey Corridor presents potentially suitable habitat for the Indiana bat and the northern long-eared bat, as well as the Lark Sparrow. As the northern long-eared bat and Indiana bat were previously listed by ODNR/USFWS and included as an avoidance measure within the March 2021 - Report, no additional recommendations and/or avoidance measures would likely be required. AECOM completed an additional review to identify if new species were added to the federal and/or state list by completing an IPaC report and reviewing state-listed species on the ODNR website. Potentially suitable habitat for two species, the little brown bat and the tri-colored bat, were identified within the March 2021 – Addendum Project Survey Corridor. Although no comments regarding these two bat species were received from the ODNR, recent comments from ODNR for another project suggest that ODNR may recommend seasonal tree clearing to be completed between October 1 and March 31 to avoid adverse impacts to these species. ODNR may also recommend that a desktop habitat assessment, followed by a field assessment (if needed), be conducted to determine if there are potential hibernaculum(a) present within the project area. According the ODNR Division of Mineral Resources data, no mines or caves are mapped in the Project area. No mines or caves were identified in the Project area during the field survey.

Habitat assessment data was collected on May 26, 2020 by AECOM senior ecologist Jeff Brown. No potential Lark Sparrow nesting habitat was identified within the Project area. As such, based on the habitat assessment completed, disturbances to nesting Lark Sparrows or their potential habitat are not anticipated to occur. Therefore, due to the absence of potentially suitable nesting habitat for the Lark Sparrow, it is our

opinion that seasonal construction restrictions are not necessary for construction to occur within the proposed right of way. Furthermore, presence/absence surveys for the Lark Sparrow in the Project area are not warranted. The results of this habitat assessment is documented under separate cover in The Habitat Assessment for Lark Sparrow report, which AEP Ohio Transco will provide to ODNR for confirmation of absence of habitat in the Project area.

The reported results of the ecological survey conducted by AECOM on this Project are limited to the areas within the Project survey boundary provided in Figure 3: Wetland Delineation and Stream Assessment Map. Areas that fall outside of the Project survey boundary were not evaluated in the field and are not included in the reporting of this survey.

The information contained in this wetland delineation report is for a study area that may be much larger than the actual Project limits-of-disturbance; therefore, lengths and acreages listed in this report may not constitute the actual impacts of the Project defined in subsequent permit applications. If necessary, a separate report that identifies the actual Project impacts will be provided with agency submittals.

The field survey results presented herein apply to the existing and reasonably foreseeable site conditions at the time of our assessment. They cannot apply to site changes of which AECOM is unaware and has not had the opportunity to review. Changes in the condition of a property may occur with time due to natural processes or human impacts at the project site or on adjacent properties. Changes in applicable standards may also occur as a result of legislation or the expansion of knowledge over time. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond the control of AECOM.

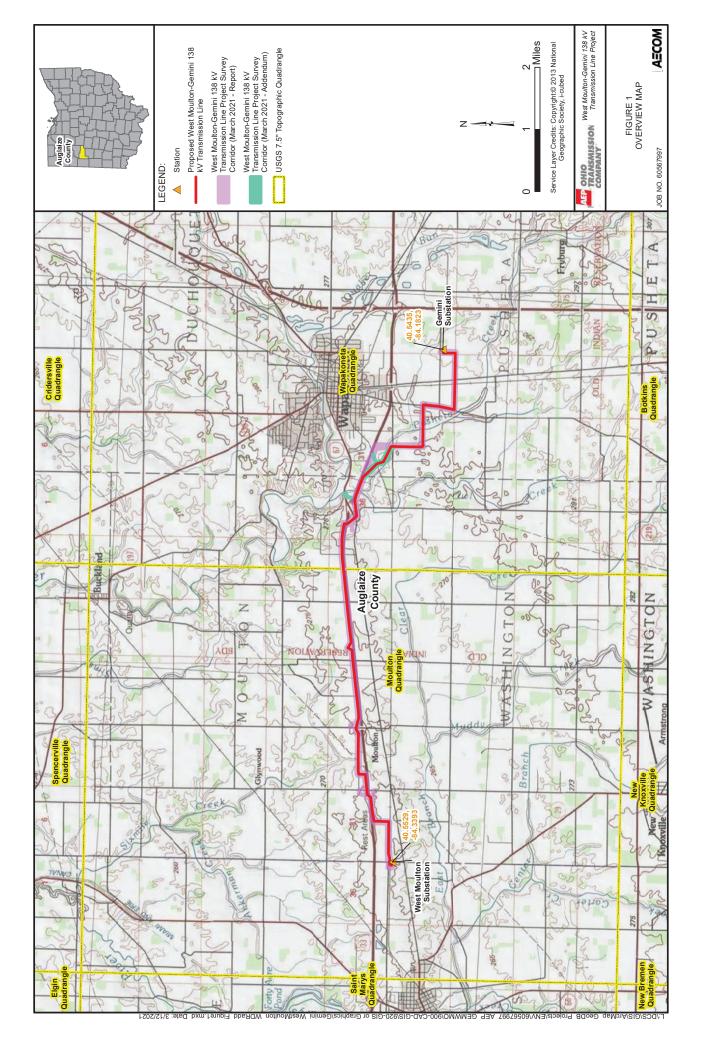


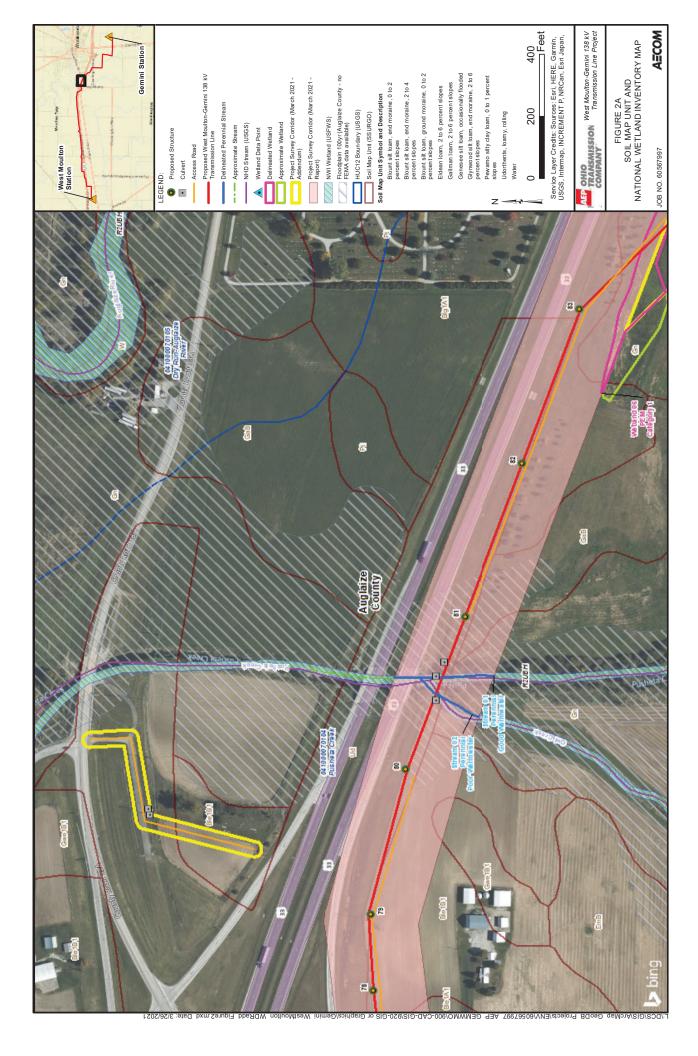
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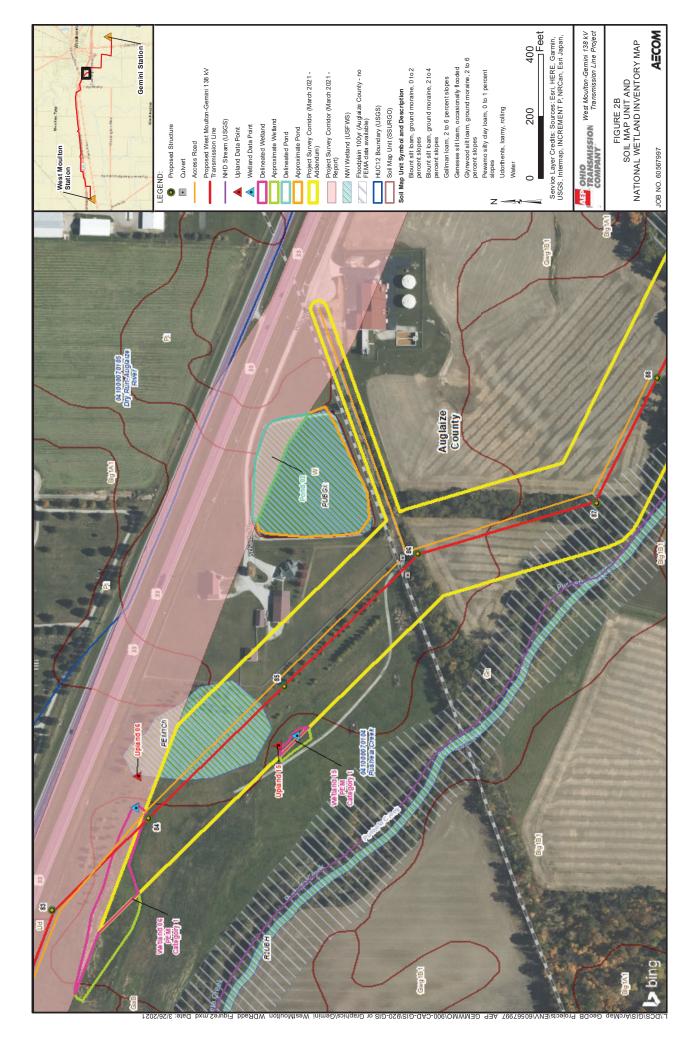
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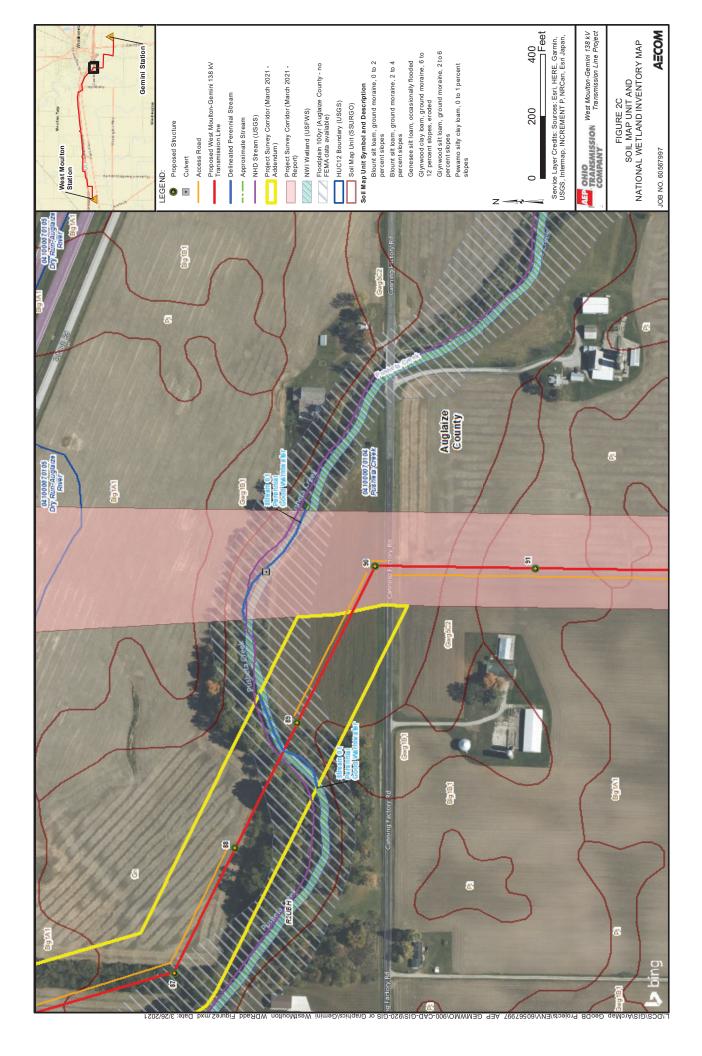
AECOM

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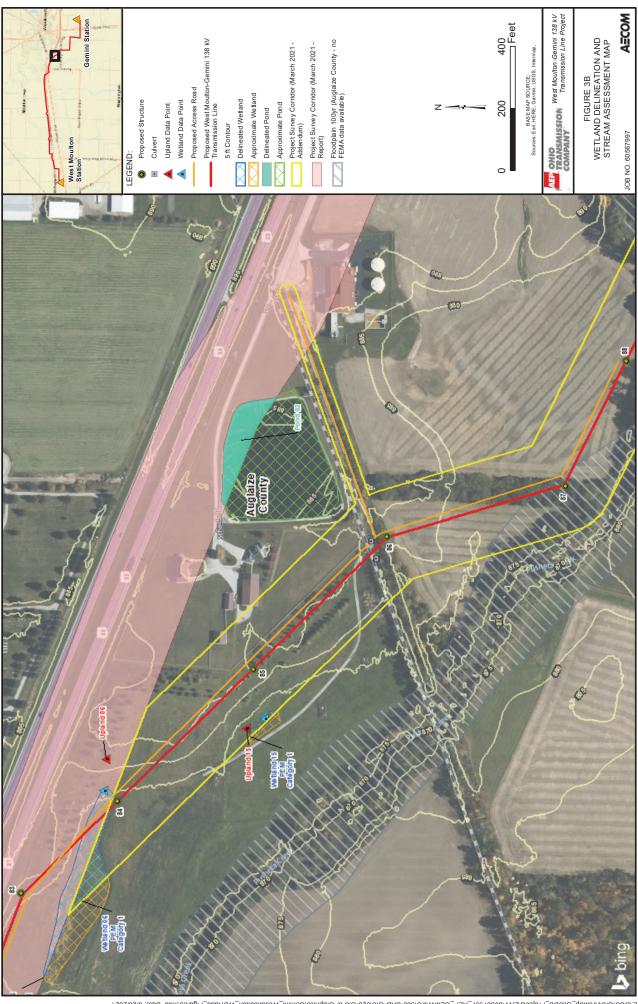








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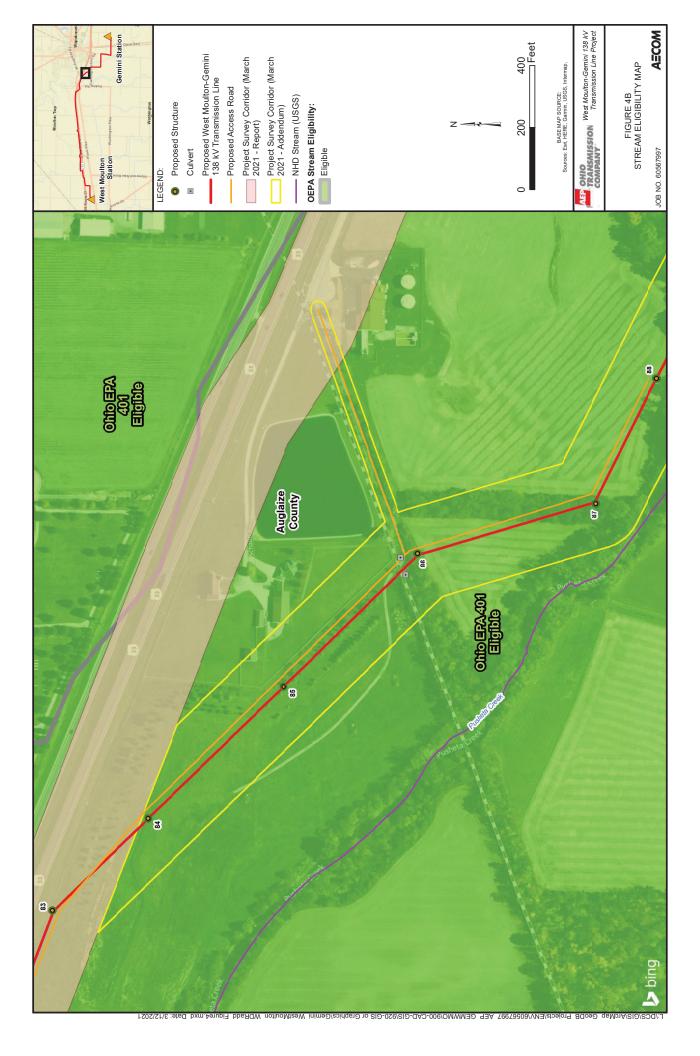


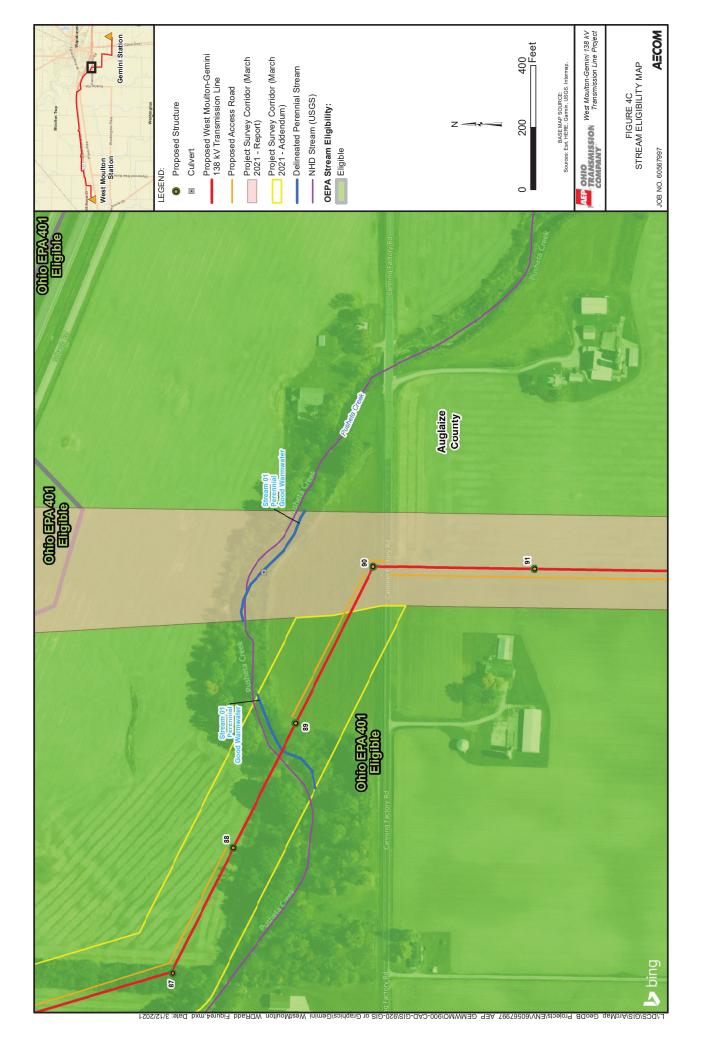
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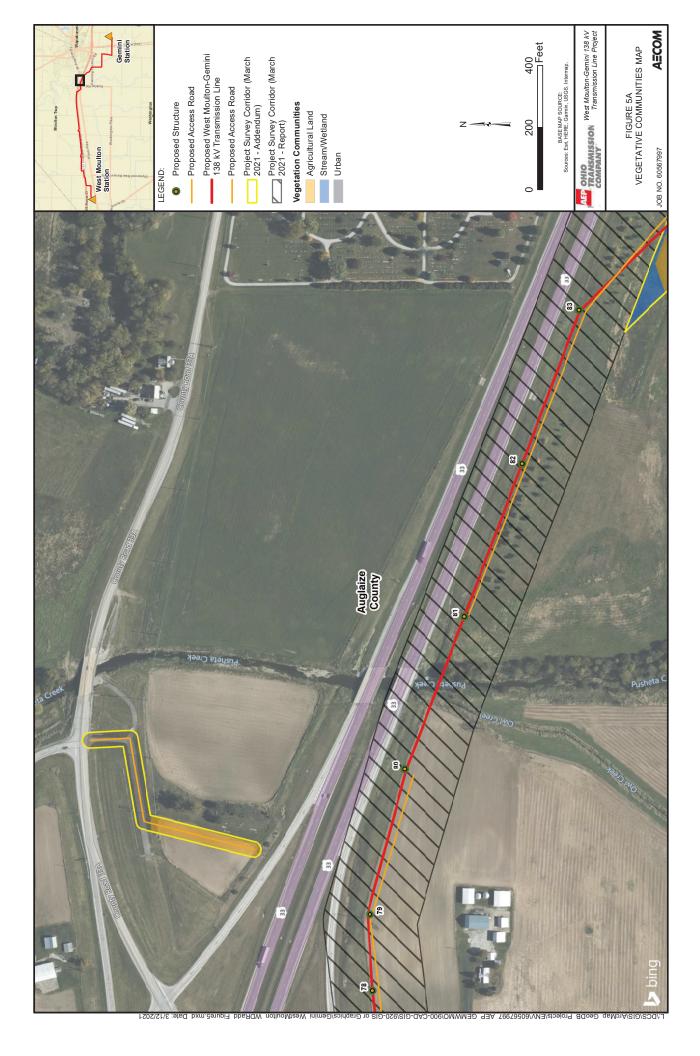


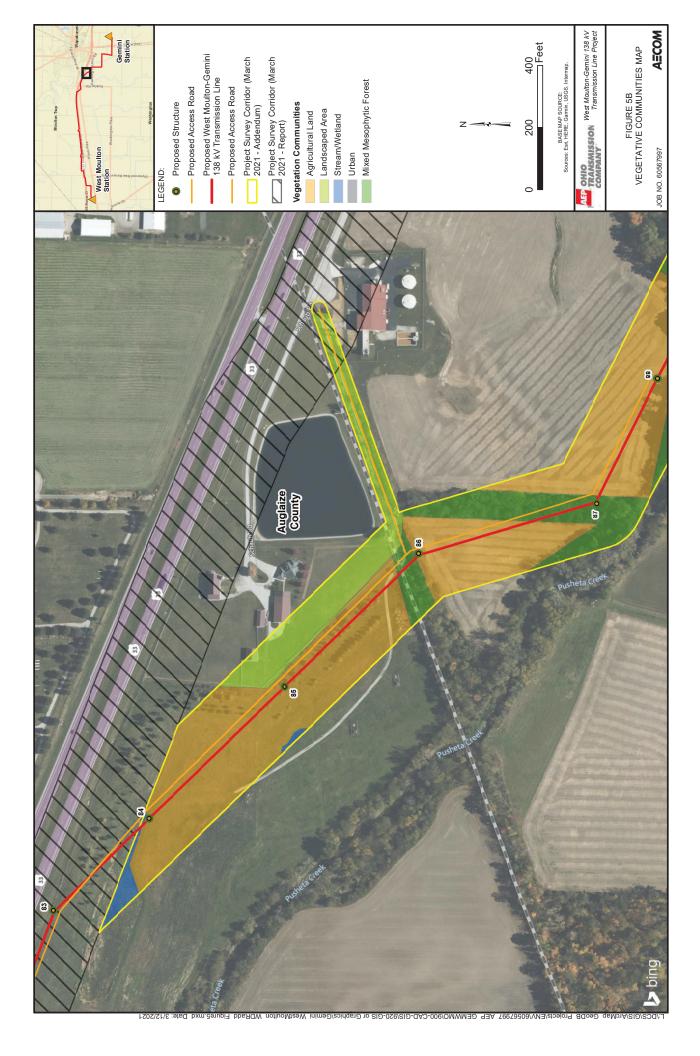
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APPENDIX A

USACE WETLAND DELINEATION FORMS

### WETLAND 06

### WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Gemini-	West Moulton 138 kV T-Line Project	City/County: Auglaize Cou	unty	Sampling Date:	03/24/2020
Applicant/Owner:	AEP		State: OH	Sampling Point:	w-jbl-20200324-01
Investigator(s): JBL, /	AEH S	Section, Township, Range:	S31, T5S, R6E		
Landform (hillside, te	rrace, etc.): Lowland	Local relief (conca	ive, convex, none): (	Concave	
Slope (%): 0	Lat: 40.560896388	Long: -84.220606124	[	Datum: NAD 83	
Soil Map Unit Name:	Genesee silt loam, occasionally flooded (Ge)		NWI classifi	cation: N/A	
Are climatic / hydrolo	gic conditions on the site typical for this time of year	ar? Yes <u>X</u> No	o (If no, expl	ain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly distu	rbed? Are "Normal Circur	mstances" present?	Yes X No	)
Are Vegetation	, Soil, or Hydrologynaturally problem	atic? (If needed, explain	any answers in Ren	narks.)	
SUMMARY OF F	INDINGS – Attach site map showing s	ampling point locati	ons, transects,	important fea	tures, etc.

Hydrophytic Vegetation Present?	Yes	Х	No	Is the Sampled Area		х	
Hydric Soil Present?	Yes	Х	No	within a Wetland?	Yes		No
Wetland Hydrology Present?	Yes	Х	No		_		

Remarks:

Sample point w-jbl-20200324-01. Wetland located along a lowland field southwest of US-33. Wetland boundary is defined by the geomorphic position of the landscape and dominance of Phalaris arundinacea.

### **VEGETATION** – Use scientific names of plants.

				Absolute	Dominant	Indicator					
Tree Stratum	(Plot size:	30'	)	% Cover	Species?	Status	Dominance Test	t worksh	eet:		
1							Number of Domir				
2							Are OBL, FACW,	, or FAC:	_	1	(A)
3.							Total Number of	Dominant	t Species		
4.							Across All Strata	:	_	1	(B)
5							Percent of Domir	nant Spec	ies That		
			-		=Total Cover		Are OBL, FACW	, or FAC:	_	100.0%	(A/B)
Sapling/Shrub St	ratum (Plot	t size: 1	5')								
1					·		Prevalence Inde	x worksl	neet:		
2							Total % Cov	ver of:	Mu	tiply by:	_
3.							OBL species	5	x 1 =	5	_
4							FACW species	60	x 2 =	120	
5.							FAC species	15	x 3 =	45	
			_		=Total Cover		FACU species	0	x 4 =	0	
Herb Stratum	(Plot size:	5'	)				UPL species	0	x 5 =	0	
1. Phalaris arun	dinacea			60	Yes	FACW	Column Totals:	80	(A)	170	(B)
2. Setaria pumila	а			15	No	FAC	Prevalence Inc	dex = B/A	A =	2.13	
3. Typha angust	tifolia			5	No	OBL					
4.							Hydrophytic Veg	getation I	ndicators	:	
5							1 - Rapid Tes	st for Hyd	rophytic V	egetation	
0							X 2 - Dominano	ce Test is	>50%		
7							X 3 - Prevalence	ce Index is	s ≤3.0 <sup>1</sup>		
8							4 - Morpholo	gical Ada	ptations <sup>1</sup> (F	Provide su	pporting
0							data in Re	marks or	on a sepa	rate sheet)	)
10.							Problematic	Hydrophy	tic Vegeta	tion <sup>1</sup> (Expl	ain)
				80	=Total Cover		<sup>1</sup> Indicators of hyd	tric soil ar	nd wetland	hydrology	must
Woody Vine Stra	tum (Plot	t size: 3	80')				be present, unles				maor
1							Hydrophytic				
2							Vegetation				
					=Total Cover			Yes X	No		
Remarks: (Inclue	de photo numbers	s here or on	a separa	te sheet.)							

Vegetation is frequently disturbed by mowing. Photographs of wetland habitat are located in Appendix D.

SOIL									Sampling Point: bl-2020032				
Profile Desc	ription: (Describe	to the dep	th needed to doc	ument tl	he indica	ator or	confirm the	e absence c	of indicators.)				
Depth	Matrix		x Featur										
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Тех	ture	Remarks				
0-7	10YR 4/1	85	10YR 5/6	15	С	PL	Loamy	/Clayey	Prominent redox concentrations				
7-18	10YR 3/1	90	10YR 5/4	10	С	PL	Loamy	/Clayey	Distinct redox concentrations				
							·,		10% gravel throughout				
							·						
	ncentration, D=Dep	oletion, RM=	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains	s.		PL=Pore Lining, M=Matrix.				
Hydric Soil I									s for Problematic Hydric Soils <sup>3</sup> :				
Histosol (	,		Sandy Gle				<u>?</u> Coast Prairie Redox (A16)						
	ipedon (A2)		Sandy Re	. ,			Iron-Manganese Masses (F12)						
Black His			Stripped M	``	5)		Red Parent Material (F21)						
	Sulfide (A4)		Dark Surfa				Very Shallow Dark Surface (F22)						
	Layers (A5)		Loamy Mu	-				Other	(Explain in Remarks)				
2 cm Muc	Below Dark Surfac	o (A11)	Loamy Gle X Depleted I	-									
·	rk Surface (A12)	e (A11)	X Redox Da		,		<sup>3</sup> Indicators of hydrophytic vegetation and						
	ucky Mineral (S1)		Depleted [				wetland hydrology must be present,						
	cky Peat or Peat (S	3)	Redox De		· · ·			unless disturbed or problematic.					
	ayer (if observed)				( - )				l l				
Type:	ayer (il observed)	•											
Depth (in	ches):						Hvdric S	oil Present	? Yes X No				
Remarks:	,												
	m is revised from M 2018. (https://www.	0							of Hydric Soils in the United States,				
HYDROLO	GY												
	Irology Indicators												
,	ators (minimum of		red: check all that	annly)				Secondar	y Indicators (minimum of two required				
X Surface V			Water-Sta		aves (B9)				ce Soil Cracks (B6)				
	er Table (A2)			Aquatic Fauna (B13)					Drainage Patterns (B10)				
Saturation (A3)			True Aqua	tic Plant	s (B14)		Dry-Season Water Table (C2)						
Water Ma	arks (B1)		Hydrogen	Sulfide (	Odor (C1	)		Crayfi	ish Burrows (C8)				
Sediment Deposits (B2)			Oxidized F	Oxidized Rhizospheres on Living Ro					ation Visible on Aerial Imagery (C9)				
X Drift Dep		Presence of Reduced Iron (C4)					ed or Stressed Plants (D1)						
	or Crust (B4)		Recent Iro			lled Soi	ils (C6)		norphic Position (D2)				
Iron Depo	· · /	(5-	Thin Muck					X FAC-I	Neutral Test (D5)				
	n Visible on Aerial	0,1	, <u> </u>		( )								
	Vegetated Concave	e Surface (E	38)Other (Exp	Diain in F	(emarks)								
Field Observ				//									
Surface Wate		es <u>X</u>		• •	nches):	0.24							
Water Table		es		Depth (i		10	Matler	ما السماسية الم					
Saturation Pr		es <u>X</u>	No	Depth (i	ncnes):	10	vvetian	a Hyarolog	y Present? Yes X No				
(includes cap	corded Data (strean		nitoring well serie	l nhotos	previou	s insner	ctions) if as	ailable:					
	orada Data (siredi)	i gauge, mu	aella	" p10105	, previou	s nisper	olion <i>aj</i> , li dv						
Remarks:													
	ives water from pre	cipitation.											

WETLAND 06

### UPLAND 06

### WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Gemini-	West Moulton 138 kV T-Line Project	City/County: Auglaize Cou	unty	Sampling Date:	03/24/2020
Applicant/Owner:	AEP		State: OH	Sampling Point:	upl-jbl-20200324-01
Investigator(s): JBL, A	AEHS	ection, Township, Range:	S31, T5S, R6E		
Landform (hillside, te	errace, etc.): hillside	Local relief (conca	ve, convex, none):	Concave	
Slope (%): 5	Lat: 40.56086778	Long: -84.22023791		Datum: NAD 83	
Soil Map Unit Name:	Blount silt loam, ground moraine, 0 to 2 percent slo	opes (Blg1B1)	NWI classi	fication:	
Are climatic / hydrolo	ogic conditions on the site typical for this time of yea	r? Yes No	o (If no, exp	olain in Remarks.)	
Are Vegetation	, Soil, or Hydrologysignificantly distur	bed? Are "Normal Circun	nstances" present?	Yes <u>X</u> No	)
Are Vegetation	, Soil, or Hydrologynaturally problema	atic? (If needed, explain	any answers in Re	marks.)	
SUMMARY OF	FINDINGS – Attach site map showing s	ampling point locati	ons, transects	, important fea	tures, etc.

Hydrophytic Vegetation Present?       Yes       No       X       Is the Sampled Area         Hydric Soil Present?       Yes       No       X         Wetland Hydrology Present?       Yes       No       X
--

Remarks:

Sample point upl-jbl-20200324-01. Upland point for w-jbl-20200324-01 located in a field east of the wetland and southwest of US-33.

### **VEGETATION** – Use scientific names of plants.

			Absolute	Dominant	Indicator			
	size: 30	')	% Cover	Species?	Status	Dominance Test worksheet:		
1. Pinus strobus			35	Yes	FACU	Number of Dominant Species That		
2.						Are OBL, FACW, or FAC:	1	(A)
3.						Total Number of Dominant Species	6	
4.						Across All Strata:	3	(B)
5.						Percent of Dominant Species That		
			35	=Total Cover		Are OBL, FACW, or FAC:	33.3%	(A/B)
Sapling/Shrub Stratum	(Plot size:	15')		1				
1						Prevalence Index worksheet:		
2.						Total % Cover of: M	lultiply by:	
3.						OBL species 0 x 1 =	0	-
4.						FACW species 0 x 2 =	0	-
5.				·		FAC species 45 x 3 =	135	-
				=Total Cover		FACU species 75 x 4 =	300	-
Herb Stratum (Plot	size: 5'	)				UPL species 3 x 5 =	15	-
1. Setaria pumila		/	45	Yes	FAC	Column Totals: 123 (A)	450	(B)
2. Schedonorus arundina	ceus		40	Yes	FACU	Prevalence Index = B/A =	3.66	_``
3. Daucus carota			3	No	UPL		0.00	-
4				110	0.1	Hydrophytic Vegetation Indicato	rs:	
				·		1 - Rapid Test for Hydrophytic		
6						2 - Dominance Test is >50%	vegetation	
0 7						3 - Prevalence Index is ≤3.0 <sup>1</sup>		
				·		4 - Morphological Adaptations	(Dravida aut	anarting
8						data in Remarks or on a se		
9								
10						Problematic Hydrophytic Vege	tation' (Expla	ain)
			88	=Total Cover		<sup>1</sup> Indicators of hydric soil and wetla		must
Woody Vine Stratum	(Plot size:	′				be present, unless disturbed or pro	blematic.	
1						Hydrophytic		
2.						Vegetation		
				=Total Cover		Present? Yes No	<u>X</u>	
Remarks: (Include photo	numbers here	or on a separ	ate sheet.)			•		
Upland species are domin			,					

SOIL									Sar	mpling Point:	jbl-20200324
Profile Desc	ription: (Describ	e to the depth	needed to do	ocument t	he indica	ator or o	confirm the	absence of	of indicators	.)	
Depth	Matrix		Re	dox Featur	res						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ture		Remarks	
0-18	10YR 3/2	100					Loamy/	Clayey			
								- , ,			
					·						
					·						
<sup>1</sup> Type: C=Co	oncentration, D=De	pletion, RM=R	educed Matrix	, MS=Mas	ked Sand	d Grains	5.	<sup>2</sup> Location:	PL=Pore Li	ning, M=Matri	Х.
Hydric Soil I	ndicators:							Indicator	s for Probler	matic Hydric	Soils <sup>3</sup> :
Histosol	(A1)		Sandy G	Gleyed Mat	trix (S4)			Coas	t Prairie Redo	ox (A16)	
Histic Ep	ipedon (A2)		Sandy F	Redox (S5)	)			Iron-N	Manganese M	lasses (F12)	
Black His	stic (A3)		Stripped	d Matrix (Se	6)			Red F	Parent Materia	al (F21)	
Hydroger	n Sulfide (A4)		Dark Su	irface (S7)				Very	Shallow Dark	Surface (F22	2)
Stratified	Layers (A5)		Loamy M	Mucky Min	eral (F1)			Other	· (Explain in R	Remarks)	
2 cm Mu	ck (A10)		Loamy (	Gleyed Ma	trix (F2)						
Depleted	Below Dark Surfa	ce (A11)	Depleter	d Matrix (F	3)						
Thick Da	rk Surface (A12)		Redox D	Dark Surfac	ce (F6)			<sup>3</sup> Indicator	s of hydrophy	tic vegetation	and
Sandy M	ucky Mineral (S1)		Depleter	d Dark Sur	rface (F7)	)		wetla	nd hydrology	must be pres	ent,
5 cm Mu	cky Peat or Peat (	33)	Redox D	Depression	ıs (F8)			unles	s disturbed o	r problematic.	
Restrictive L	ayer (if observed	):									
Type:			_								
Depth (in	ches):		_				Hydric So	oil Present	?	Yes	No X
	m is revised from M 2018. (https://www Is.								s of Hydric Sc	oils in the Unit	ed States,
HYDROLO	GY										
Wetland Hyd	Irology Indicators	:									
Primary Indic	ators (minimum of	one is require	<u>d; check all th</u>	at apply)				Secondar	y Indicators (	minimum of t	wo required)
Surface \	Water (A1)		Water-S	Stained Lea	aves (B9)			Surfa	ce Soil Crack	(B6)	
High Wat	ter Table (A2)			Fauna (B1				Drain	age Patterns	(B10)	
Saturatio	( )			uatic Plant	· · /				eason Water	( )	
Water Ma				en Sulfide (		,			ish Burrows (		( )
	t Deposits (B2)			d Rhizosph		-	oots (C3)			on Aerial Ima	
<u> </u>	osits (B3)			e of Redu		. ,	(00)			ed Plants (D1)	
	t or Crust (B4)			Iron Reduc		lied Soli	IS (C6)		norphic Positi		
	osits (B5)	Imagan (DZ)		ick Surface	( )			FAC-	Neutral Test (	(D5)	
	on Visible on Aerial	0,(,,		or Well Dat Explain in F	· · /						
					(emarks)		<b></b>				
Field Observ		1		Dan the (	··· · · · · · · · · ·						
Surface Wate		/es	No <u>X</u>		inches):						
Water Table Saturation Pr		/es	No <u>X</u> No X		inches):		Watland	d Uvdralaa	w Brocont?	Vac	No V
(includes cap		/es		Deptii (i	inches):		wetiant		y Present?	Yes	No <u>X</u>
	corded Data (strea	m daude moni	itoring well as	rial photos	previou	s inspec	tions) if av	ailahle:			
	שמום (שוופט	n gauge, mom	toring well, de		, previou:	s maper					
Remarks:											
No wetland h	ydrology.										

### WETLAND 15

### WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Gemini	West	Moulton 138 kV T-Line P	roject	City/Co	unty: Auglaize Cou	unty		Sampling Date:	03/03/2021
Applicant/Owner:	AEP					State:	OH	Sampling Point:	w-jbl-20210303-01
Investigator(s): JBL				Section,	Township, Range:	S31, T	5S, R6E		
Landform (hillside, te	errace,	etc.): toeslope			Local relief (conca	ve, conv	ex, none):	concave	
Slope (%): 1	Lat:	40.55948		Long:	-84.21974			Datum: NAD 83	
Soil Map Unit Name:	Gene	see silt loam, occasional	ly flooded (Gn)			N	WI class	ification: N/A	
Are climatic / hydrolc	ogic co	nditions on the site typica	al for this time of ye	ar?	Yes <u>x</u> No	D	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly distu	irbed?	Are "Normal Circur	nstances	" present	? Yes <u>x</u> No	)
Are Vegetation	, Soil	, or Hydrology	naturally problem	natic?	(If needed, explain	any ansv	vers in Re	emarks.)	
SUMMARY OF I	FIND	NGS – Attach site	map showing s	sampli	ing point locati	ons, tr	ansects	s, important fea	tures, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area			
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes	Х	No
Wetland Hydrology Present?	Yes X	No				

Remarks:

Sample point w-jbl-20210303-01. PEM wetland located at base of hill. Wetland domniated by phalaris. Boundary of the wetland is defined by geomorphic position and dominance of hydrophytic veg. wetland extends offsite to the south, potentially isolated.

### **VEGETATION** – Use scientific names of plants.

			Absolu	te Dominant	Indicator					
Tree Stratum	(Plot size:	30'	) <u>% Cov</u>	er Species?	Status	Dominance Tes	st worksh	eet:		
1. <u>N/A</u>						Number of Domi	inant Spe	cies That		
2						Are OBL, FACW	/, or FAC:	_	1	(A)
3						Total Number of	Dominan	t Species		
4						Across All Strata		· .	1	(B)
5						Percent of Domi	nant Spec	cies That		
				=Total Cover		Are OBL, FACW	, or FAC:	_	100.0%	(A/B)
Sapling/Shrub Stra	<u>atum</u> (Plot	size: 15	5')							
1. <u>N/A</u>						Prevalence Inde	ex works	heet:		
2.						Total % Co	ver of:	Mu	ltiply by:	_
0						OBL species	0	x 1 =	0	
1						FACW species	100	x2=	200	-
F						FAC species	0		0	-
				=Total Cover		FACU species		 x 4 =	0	-
Herb Stratum	(Plot size:	5'	)			UPL species		 x 5 =	0	-
1. Phalaris arund			100	Yes	FACW	Column Totals:	100	 (A)	200	(B)
2.						Prevalence In	ndex = B/	A =	2.00	_``
0										-
						Hydrophytic Ve	getation	Indicators	:	
<i>_</i>						1 - Rapid Te				
6						X 2 - Dominan			0	
7						X 3 - Prevalen	ice Index i	s ≤3.0 <sup>1</sup>		
8						4 - Morpholo	ogical Ada	ptations <sup>1</sup> (	Provide su	pporting
0						· ·	-	• •	rate sheet	
10						Problematic	Hydrophy	/tic Vegeta	tion <sup>1</sup> (Expl	ain)
			100	=Total Cover				•		,
Woody Vine Stratu	<u>um</u> (Plot	size: 30				<sup>1</sup> Indicators of hyber be present, unless				must
1. N/A						Hydrophytic				
2						Vegetation				
				=Total Cover			Yes X	No		
Remarks: (Include	e photo numbers	s here or on a	a separate shee	et.)		:				

Hydrophytic vegetation indicator present as Dominance Test > 50% and Prevalence Index < 3.0.

Profile Desc	ription: (Desci	ribe to the dep	oth needed to doc	ument tl	he indica	ator or c	confirm the absence of	of indicators.)
Depth	Matr	rix	Redo	x Featur				
(inches)	Color (moist	t) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	10YR 3/2	100					Loamy/Clayey	
2-17	10YR 4/2	95	10YR 3/4	5	С	PL/M	Loamy/Clayey	Distinct redox concentrations
		·						
		Depletion, RM	=Reduced Matrix, I	MS=Mas	ked Sand	d Grains		PL=Pore Lining, M=Matrix.
lydric Soil I								s for Problematic Hydric Soils <sup>3</sup> :
Histosol (	,		Sandy Gle	-				t Prairie Redox (A16)
	ipedon (A2)		Sandy Re					Manganese Masses (F12)
Black His	( )		Stripped N	`	5)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	( )				Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	-			Other	(Explain in Remarks)
2 cm Muc	ck (A10) Below Dark Su	rface (111)	Loamy Gle	-				
	rk Surface (A12	( )	X Depleted I Redox Da				<sup>3</sup> Indiactor	s of hydrophytic vegetation and
	ucky Mineral (S	,	Depleted I		. ,			nd hydrology must be present,
	cky Peat or Pea		Redox De		( )			s disturbed or problematic.
	-			pression	3 (1 0)		unes	
Type:	ayer (if observ.	ea):						
Type.								
		n Midure A Dee					Hydric Soil Present	
Remarks: This data forr Version 8.2, 2	m is revised from 2018. (https://ww	ww.nrcs.usda.g	gov/Internet/FSE_D	OCUME	NTS/nrc	s142p2_	NRCS Field Indicators 053171.pdf)	
Remarks: This data forr /ersion 8.2, 2 Hydric soil inc	n is revised fror 2018. (https://wu dicators present	ww.nrcs.usda.g	gov/Internet/FSE_D	OCUME	NTS/nrc	s142p2_	NRCS Field Indicators 053171.pdf)	of Hydric Soils in the United States,
Remarks: This data forr Version 8.2, 2 Hydric soil inc	n is revised fror 2018. (https://wu dicators present	ww.nrcs.usda.g	gov/Internet/FSE_D	OCUME	NTS/nrc	s142p2_	NRCS Field Indicators 053171.pdf)	of Hydric Soils in the United States,
Remarks: This data forr /ersion 8.2, 2 Hydric soil ind YDROLO Wetland Hyd	n is revised fror 2018. (https://wu dicators present GY Irology Indicate	ww.nrcs.usda.g as high chrom	gov/Internet/FSE_D	OCUME ed matrix	NTS/nrc	s142p2_	NRCS Field Indicators 053171.pdf) atrix below surface lay	s of Hydric Soils in the United States, er of low chroma/low value.
Remarks: This data form /ersion 8.2, 2 Hydric soil ind YDROLO Vetland Hyd Primary Indic	n is revised fror 2018. (https://wu dicators present GY Irology Indicate	ww.nrcs.usda.g as high chrom	gov/Internet/FSE_D na/low value deplet	OCUME ed matrix	NTS/nrc:	s142p2_ bleted m	NRCS Field Indicators 053171.pdf) atrix below surface lay <u>Secondar</u>	s of Hydric Soils in the United States, er of low chroma/low value.
Remarks: This data form Yersion 8.2, 2 Hydric soil incomposition YDROLO Yetland Hyd Primary Indic Surface V	n is revised fror 2018. (https://wu dicators present <b>GY</b> Irology Indicato ators (minimum	ww.nrcs.usda.g as high chrom	jov/Internet/FSE_D na/low value deplete ired; check all that	OCUME ed matrix apply) ined Lea	NTS/nrc: < and dep wes (B9)	s142p2_ bleted m	NRCS Field Indicators 053171.pdf) atrix below surface lay <u>Secondar</u>	s of Hydric Soils in the United States, er of low chroma/low value. y Indicators (minimum of two require
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Remarks: This data forr Version 8.2, 2 Aydric soil ind <b>YDROLO</b> <b>Vetland Hyd</b> Primary Indic Surface V <u>x</u> High Wat <u>x</u> Saturation Water Ma	n is revised fror 2018. (https://wd dicators present <b>GY</b> Irology Indicate ators (minimum Vater (A1) ter Table (A2) n (A3) arks (B1)	ww.nrcs.usda.g as high chrom	ired; check all that Water-Sta Aquatic Fa Hydrogen	apply) ined Lea auna (B1 atic Plant Sulfide (	NTS/nrc: < and dep ives (B9) 3) s (B14) Ddor (C1	s142p2_ bleted m	NRCS Field Indicators 053171.pdf) atrix below surface lay 	s of Hydric Soils in the United States, er of low chroma/low value. <u>y Indicators (minimum of two require</u> ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8)
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Remarks: This data forr Version 8.2, 2 Hydric soil ind <b>IYDROLO</b> <b>Netland Hyd</b> <b>Primary Indic</b> Surface V X High Water X Saturation Drift Depo Algal Mate Iron Depo Inundatio Sparsely Field Observ Surface Water Mater Table I Saturation Printice (Content) Saturation Printice (Content) Staturation Pri	m is revised from 2018. (https://ww dicators present <b>GY</b> Irology Indicate ators (minimum Vater (A1) ther Table (A2) in (A3) arks (B1) th Deposits (B2) posits (B3) th Oregosits (B3) th Oregosits (B4) posits (B5) in Visible on Aer Vegetated Content Vegetated Content vations: er Present? Present?	ww.nrcs.usda.c as high chrom ors: of one is requ rial Imagery (B cave Surface ( Yes	ired; check all that ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen x Oxidized F Presence Recent Irc Thin Muck 7) Gauge or B8) Other (Exp	apply) ined Lea auna (B1 atic Plant Sulfide ( Rhizosph of Reduc on Reduc c Surface Well Dat blain in R Depth (i Depth (i	NTS/nrc: and dep aves (B9) 3) s (B14) Ddor (C1 eres on l ced Iron ( tion in Ti c(C7) a (D9) Remarks) nches): _	s142p2_ oleted m ) 	NRCS Field Indicators 053171.pdf) atrix below surface lay <u>Secondar</u> Surfa Drain Dry-S Crayf oots (C3) Satur Stunt s (C6) X Geon	s of Hydric Soils in the United States, er of low chroma/low value. <u>y Indicators (minimum of two require</u> ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Remarks: This data forr Version 8.2, 2 Hydric soil ind <b>IYDROLO</b> <b>Wetland Hyd</b> Primary Indic Surface V X High Water X Saturation Drift Depo Algal Mate Iron Depo Inundatio Sparsely Field Observ Surface Water Water Table I Saturation Pre- (includes cap	m is revised from 2018. (https://ww dicators present <b>GY</b> <b>Irology Indicato</b> ators (minimum Vater (A1) ther Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) t or Crust (B4) posits (B5) n Visible on Aer Vegetated Cond vations: er Present? Present? esent? illary fringe)	ww.nrcs.usda.c as high chrom ors: of one is requ rial Imagery (B cave Surface ( Yes Yes X Yes X	ired; check all that ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen x Oxidized F Presence Recent Irc Thin Muck 7) Gauge or B8) Other (Exp No x No x No	apply) ined Lea auna (B1 auna (B1 atic Plant Sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat blain in R Depth (i Depth (i	NTS/nrc: and dep ives (B9) 3) s (B14) Odor (C1 eres on l ced Iron ( tion in Ti ced Iron ( tion ( tion in Ti ced Iron ( tion ( ti	) Living Ro (C4) Iled Soil	NRCS Field Indicators 053171.pdf) atrix below surface lay <u>Secondar</u> Surfa Drain Dry-S Crayf oots (C3) Stunt s (C6) X Geon X FAC-	s of Hydric Soils in the United States, er of low chroma/low value. <u>y Indicators (minimum of two required</u> ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Remarks: This data forr /ersion 8.2, 2 Hydric soil ind YDROLOO Vetland Hyd Primary Indic Surface V X High Water X Saturation Water Ma Sediment Drift Depo Algal Mater Iron Depo Inundatio Sparsely Field Observ Surface Water Vater Table I Saturation Princludes cap	m is revised from 2018. (https://ww dicators present <b>GY</b> <b>Irology Indicato</b> ators (minimum Vater (A1) ther Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) t or Crust (B4) posits (B5) n Visible on Aer Vegetated Cond vations: er Present? Present? esent? illary fringe)	ww.nrcs.usda.c as high chrom ors: of one is requ rial Imagery (B cave Surface ( Yes Yes X Yes X	ired; check all that ired; check all that Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen x Oxidized F Presence Recent Irc Thin Muck 7) Gauge or B8) Other (Exp No x No x	apply) ined Lea auna (B1 auna (B1 atic Plant Sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat blain in R Depth (i Depth (i	NTS/nrc: and dep ives (B9) 3) s (B14) Odor (C1 eres on l ced Iron ( tion in Ti ced Iron ( tion ( tion in Ti ced Iron ( tion ( ti	) Living Ro (C4) Iled Soil	NRCS Field Indicators 053171.pdf) atrix below surface lay <u>Secondar</u> Surfa Drain Dry-S Crayf oots (C3) Stunt s (C6) X Geon X FAC-	s of Hydric Soils in the United States, er of low chroma/low value. <u>y Indicators (minimum of two require</u> ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Remarks: This data forr /ersion 8.2, 2 lydric soil ind YDROLOO Vetland Hyd Primary Indic Surface V X High Water X Saturation Water Ma Sediment Drift Depo Algal Mate Iron Depo Inundatio Sparsely Surface Water Surface Water Saturation Principules cap	m is revised from 2018. (https://ww dicators present <b>GY</b> <b>Irology Indicato</b> ators (minimum Vater (A1) ther Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) t or Crust (B4) posits (B5) n Visible on Aer Vegetated Cond vations: er Present? Present? esent? illary fringe)	ww.nrcs.usda.c as high chrom ors: of one is requ rial Imagery (B cave Surface ( Yes Yes X Yes X	ired; check all that ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen x Oxidized F Presence Recent Irc Thin Muck 7) Gauge or B8) Other (Exp No x No x No	apply) ined Lea auna (B1 auna (B1 atic Plant Sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat blain in R Depth (i Depth (i	NTS/nrc: and dep ives (B9) 3) s (B14) Odor (C1 eres on l ced Iron ( tion in Ti ced Iron ( tion ( tion in Ti ced Iron ( tion ( ti	) Living Ro (C4) Iled Soil	NRCS Field Indicators 053171.pdf) atrix below surface lay <u>Secondar</u> Surfa Drain Dry-S Crayf oots (C3) Stunt s (C6) X Geon X FAC-	s of Hydric Soils in the United States, er of low chroma/low value. <u>y Indicators (minimum of two require</u> ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

WETLAND 15

### UPLAND 15

### WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Gemini	ject/Site: Gemini West Moulton 138 kV T-Line Project				unty: <u>A</u>	uglaize Cou	Sampling Date:	03/03/2021		
Applicant/Owner:	AEP						State:	OH	Sampling Point:	upl-jbl-20210303-01
Investigator(s): JBL				Section,	Townsh	nip, Range:	S31, T5	S, R6E		
Landform (hillside, te	errace,	etc.): hillside			Local r	elief (conca	ve, conve	ex, none):	none	
Slope (%): 5	Lat:	40.55964		Long:	-84.219	86			Datum: NAD 83	
Soil Map Unit Name:	Gene	esee silt loam, occasionally	y flooded (Gn)				N	WI class	ification: N/A	
Are climatic / hydrolo	ogic co	onditions on the site typica	I for this time of ye	ear?	Yes_	x No	)	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly dist	urbed?	Are "No	ormal Circun	nstances'	' present'	? Yes <u>x</u> No	<u></u> د
Are Vegetation	, Soil	, or Hydrology	_naturally problen	natic?	(If need	led, explain	any answ	ers in Re	emarks.)	
SUMMARY OF	FIND	INGS – Attach site r	nap showing	sampli	ng po	int locati	ons, tra	ansects	s, important fea	tures, etc.

Hydrophytic Vegetation Present?	Yes	No_X_	Is the Sampled Area		
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes	No X			

Remarks:

Sample point out upl-jbl-20210303-01 for adjacent wetland w-jbl-20210303-01. Taken on hillside north of the PEM wetland area. Not a wetland as no wetland criteria met.

### **VEGETATION** – Use scientific names of plants.

	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:	
1. <u>N/A</u>				Number of Dominant Species That	
2				Are OBL, FACW, or FAC: 1	(A)
3				Total Number of Dominant Species	
4				Across All Strata: 2	(B)
5				Percent of Dominant Species That	
		=Total Cover		Are OBL, FACW, or FAC: 50.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15'	)				
1. <u>N/A</u>				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3.				OBL species 0 x 1 = 0	
4.				FACW species 55 x 2 = 110	
5.				FAC species $0 \times 3 = 0$	
		=Total Cover		FACU species 40 x 4 = 160	
Herb Stratum (Plot size: 5')				UPL species 15 x 5 = 75	
1. Phalaris arundinacea	55	Yes	FACW	Column Totals: 110 (A) 345	(B)
2. Sorghastrum nutans	20	Yes	FACU	Prevalence Index = B/A = 3.14	
3. Dipsacus fullonum	15	No	FACU		
4. Daucus carota	15	No	UPL	Hydrophytic Vegetation Indicators:	
5. Symphyotrichum ericoides	5	No	FACU	1 - Rapid Test for Hydrophytic Vegetation	
6.				2 - Dominance Test is >50%	
7.				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
8.				4 - Morphological Adaptations <sup>1</sup> (Provide supp	porting
9.				data in Remarks or on a separate sheet)	
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	n)
	110	=Total Cover		<sup>1</sup> Indicators of hydric soil and wetland hydrology m	
Woody Vine Stratum (Plot size: 30'	_)			be present, unless disturbed or problematic.	lusi
1. <u>N/A</u>				Hydrophytic	
2.	_			Vegetation	
		=Total Cover		Present? Yes No X	
Remarks: (Include photo numbers here or on a seg	parate sheet.)			•	

No hydrophytic vegetation indicators present, dominant species are FACW and FACU.

SOIL								Sa	ampling Point:	jbl-2021	10303
Profile Des	cription: (Describe	to the dept	h needed to do	cument th	ne indica	ator or o	confirm the absenc	e of indicator	s.)		
Depth	Matrix		Red	ox Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks		
0-10	10YR 3/2	100					Loamy/Clayey				
10-16	10YR 3/3	100					Loamy/Clayey				
	·										
	Concentration, D=Dep	letion, RM=	Reduced Matrix,	MS=Mas	ked San	d Grains			ining, M=Matri		
-	Indicators:								ematic Hydric	Soils <sup>3</sup> :	
Histoso	· ,			eyed Mati	rix (S4)			ast Prairie Rec	( )		
	pipedon (A2)		Sandy Re					n-Manganese I			
	istic (A3)			Matrix (S6	5)			ed Parent Mater	( )		
	en Sulfide (A4)		Dark Sur	( )				-	k Surface (F22	)	
	d Layers (A5)			ucky Mine			Oti	her (Explain in	remarks)		
	uck (A10) d Below Dark Surface	(111)		leyed Mat Matrix (F:							
'	ark Surface (A12)	(ATT)		ark Surfac			<sup>3</sup> Indica	tors of hydroph	ytic vegetation	and	
	Mucky Mineral (S1)			Dark Surlac	` '	)			y must be pres		
	ucky Peat or Peat (S3	3)	·	epressions		)			or problematic.	ont,	
	Layer (if observed):										
Type:	Layer (il observeu).										
Depth (i	inches):						Hydric Soil Prese	ent?	Yes	No	х
Remarks:	·						-			_	
Version 8.2 No hydric so	rm is revised from Mi , 2018. (https://www.n pil indicators present,	rcs.usda.go	ov/Internet/FSE_I	DOCUME	NTS/nrc	s142p2_	_053171.pdf)				,
HYDROLO	DGY										
-	drology Indicators:						0		,		
	icators (minimum of c	one is requir			(DO)				(minimum of tw	vo requ	lired)
	Water (A1) ater Table (A2)			ained Lea auna (B1		)		rface Soil Crac ainage Patterns			
	ion (A3)			atic Plants				v-Season Wate			
	/arks (B1)		·	n Sulfide C	` '	)	`	ayfish Burrows	( )		
	nt Deposits (B2)			Rhizosph				,	on Aerial Imag	gery (C	9)
	posits (B3)			of Reduc		0			ed Plants (D1)		,
Algal M	at or Crust (B4)			on Reduc		. ,	ls (C6) Ge	eomorphic Posi	tion (D2)		
	posits (B5)		Thin Muc	k Surface	(C7)		FA	C-Neutral Test	t (D5)		
Inundat	ion Visible on Aerial I	magery (B7	)Gauge or	Well Data	a (D9)						
Sparsel	y Vegetated Concave	Surface (B	8) Other (Ex	oplain in R	emarks)	)					
Field Obse	rvations:										
Surface Wa	iter Present? Ye	s	No <u>x</u>	Depth (ir	nches):						
Water Table	e Present? Ye	s	No <u>x</u>	Depth (ir	nches):						
Saturation F		s <u>x</u>	No	Depth (ir	nches): _	16	Wetland Hydro	ogy Present?	Yes	No_	Х
	apillary fringe)										
Describe Re	ecorded Data (stream	gauge, mo	nitoring well, aeri	al photos,	, previou	s inspec	ctions), if available:				
Remarks:											
	y indicators present.										

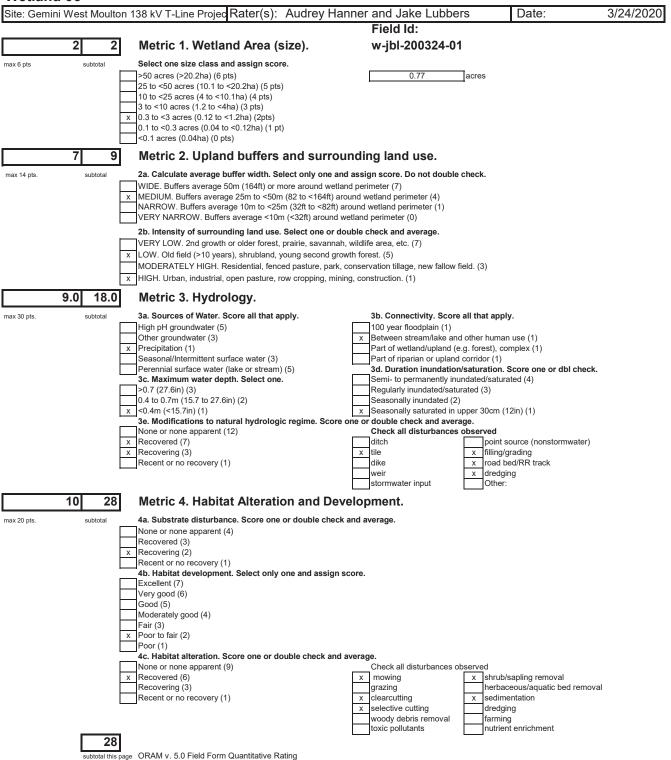
**UPLAND 15** 



APPENDIX B

ORAM FORMS

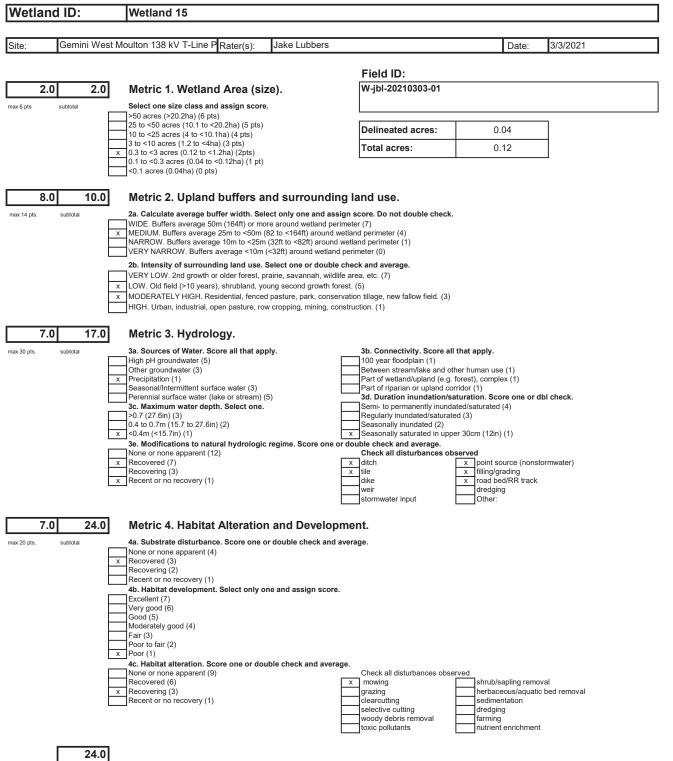
### Wetland 06



### Wetland 06

	vvest IVI	oulton 138 kV T-LineRater(s): Audrey H	anner		Date:	3/24/202
				Field Id:		
	28	1		w-jbl-200324-01		
		4		<b>,</b>		
	subtotal this					
C	) 28	Metric 5. Special Wetlands.				
10 pts.	subtotal	Check all that apply and score as indicat	ted.			
		Bog (10)				
		Fen (10)				
		Old growth forest (10)				
		Mature forested wetland (5)				
		Lake Erie coastal/tributary wetland-unrestricted hydrolo				
		Lake Erie coastal/tributary wetland-restricted hydrology	(5)			
		Lake Plain Sand Prairies (Oak Openings) (10)				
		Relict Wet Praires (10) Known occurrence state/federal threatened or endange	red spec	ies (10)		
		Significant migratory songbird/water fowl habitat or usa		165 (10)		
		Category 1 Wetland. See Question 5 Qualitative Rating				
4	1 29			ion, microtopography,		
		· · · · ·	000.0		aver Ceale	
20pts.	subtotal	6a. Wetland Vegetation Communities.	0	Vegetation Community Co		
		Score all present using 0 to 3 scale.		Absent or comprises <0.1ha (0.2471 Present and either comprises small		
		Aquatic bed Emergent	1	vegetation and either comprises small		
		Shrub		significant part but is of low quality	y, or comprises a	
		Forest	2	Present and either comprises signifi	cant part of wetland's 2	
		Mudflats		vegetation and is of moderate quality		
		Open water		part and is of high quality		
		Other	3	Present and comprises significant pa	art, or more, of wetland's 3	
		6b. horizontal (plan view) Interspersion.		vegetation and is of high quality		
		Select only one.				
		High (5)		Narrative Description of Vegetatio		
		Moderately high(4) Moderate (3)		Low spp diversity and/or predominal disturbance tolerant native species	nce of nonnative or low	
		Moderately low (2)		Native spp are dominant component	t of the vegetation mod	
		x Low (1)		although nonnative and/or disturban		
		None (0)		can also be present, and species div		
		6c. Coverage of invasive plants. Refer		moderately high, but generallyw/o pr		
		Table 1 ORAM long form for list. Add		threatened or endangered spp to		
		or deduct points for coverage		A predominance of native species, v		
		Extensive >75% cover (-5)		and/or disturbance tolerant native sp		
		x Moderate 25-75% cover (-3)		absent, and high spp diversity and o		
		Sparse 5-25% cover (-1) Nearly absent <5% cover (0)		the presence of rare, threatened, or	endangered spp	
		Absent (1)		Mudflat and Open Water Class Qu	ality	
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)		
		Score all present using 0 to 3 scale.		Low 0.1 to <1ha (0.247 to 2.47 acres	s)	
		1 Vegetated hummucks/tussucks		Moderate 1 to <4ha (2.47 to 9.88 ac		
		0 Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more		
		0 Standing dead >25cm (10in) dbh				
		1 Amphibian breeding pools	_	Microtopography Cover Scale		
			0	Absent		
			0	Absent Present very small amounts or if mo	ore common	
			1	Absent Present very small amounts or if mo of marginal quality		
egory 1			1	Absent Present very small amounts or if mo	ot of highest	

and of highest quality





ORAM v. 5.0 Field Form Quantitative Rating

etlar		Wetland 15				
te:	Gemini We	st Moulton 138 kV T-Line Proje <b>∉</b> Rater(s):	Jake Lubbers	D	ate:	3/3/202
			Field ID			
	24.0		W-jbl-202	10303-01		
	subtotal this page					
-10.	0 14.0	Metric 5. Special Wetlands.				
10 pts.	subtotal	Check all that apply and score as indicated.				
10 ptb.		Bog (10)				
		Fen (10)				
		Old growth forest (10)				
		Mature forested wetland (5)				
	_	Lake Erie coastal/tributary wetland-unrestricted hydrology (10	))			
	_	Lake Erie coastal/tributary wetland-restricted hydrology (5) Lake Plain Sand Prairies (Oak Openings) (10)				
		Relict Wet Praires (10)				
		Known occurrence state/federal threatened or endangered sp	pecies (10)			
		Significant migratory songbird/water fowl habitat or usage (10				
		x Category 1 Wetland. See Question 5 Qualitative Rating (-10)				
-4.	0 10.0	Metric 6. Plant communities, intersper	sion, microto	oography.		
20pts.	subtotal	6a. Wetland Vegetation Communities.		on Community Cover Scal		
	_	Score all present using 0 to 3 scale.		mprises <0.1ha (0.2471 acres) co		
	_	Aquatic bed		either comprises small part of wetl		
	_	1 Emergent		nd is of moderate quality, or compr	rises a	
	_	Shrub Forest		art but is of low quality either comprises significant part of	f wetland's 2	
		Mudflats		nd is of moderate quality or compri		
		Open water	part and is o		looo a onnai	
		Other		comprises significant part, or more	e, of wetland's 3	
		6b. horizontal (plan view) Interspersion.	vegetation a	nd is of high quality		
	_	Select only one.				
	_	High (5)		escription of Vegetation Quality		
	_	Moderately high(4)		ersity and/or predominance of nonr	native or low	
	-	Moderate (3) Moderately low (2)		olerant native species re dominant component of the veg	etation mod	
		Low (1)		native and/or disturbance tolerant		
		x None (0)		present, and species diversity mod		
		6c. Coverage of invasive plants. Refer	moderately h	igh, but generallyw/o presence of	rare	
		Table 1 ORAM long form for list. Add		r endangered spp to		
		or deduct points for coverage		nce of native species, with nonnat		
	_	x Extensive >75% cover (-5) Moderate 25-75% cover (-3)		bance tolerant native spp absent on high spp diversity and often, but no	•	
		Sparse 5-25% cover (-1)		of rare, threatened, or endangere		
		Nearly absent <5% cover (0)	and procented	or rare, areatonea, or onaangore	id opp	
		Absent (1)	Mudflat and	Open Water Class Quality		
		6d. Microtopography.		na (0.247 acres)		
	_	Score all present using 0 to 3 scale.		1ha (0.247 to 2.47 acres)		
		0 Vegetated hummucks/tussucks		o <4ha (2.47 to 9.88 acres)		
		0 Coarse woody debris >15cm (6in) 0 Standing dead >25cm (10in) dbh	3 High 4ha (9.	38 acres) or more		
		Amphibian breeding pools		raphy Cover Scale		
			0 Absent 1 Present very	small amounts or if more commor	1	
			of marginal of			
				oderate amounts, but not of highes	st	
	10.0IT	OTAL (Max 100 pts)		small amounts of highest quality		
		ategory		oderate or greater amounts		



APPENDIX C

**OEPA QHEI STREAM FORM** 

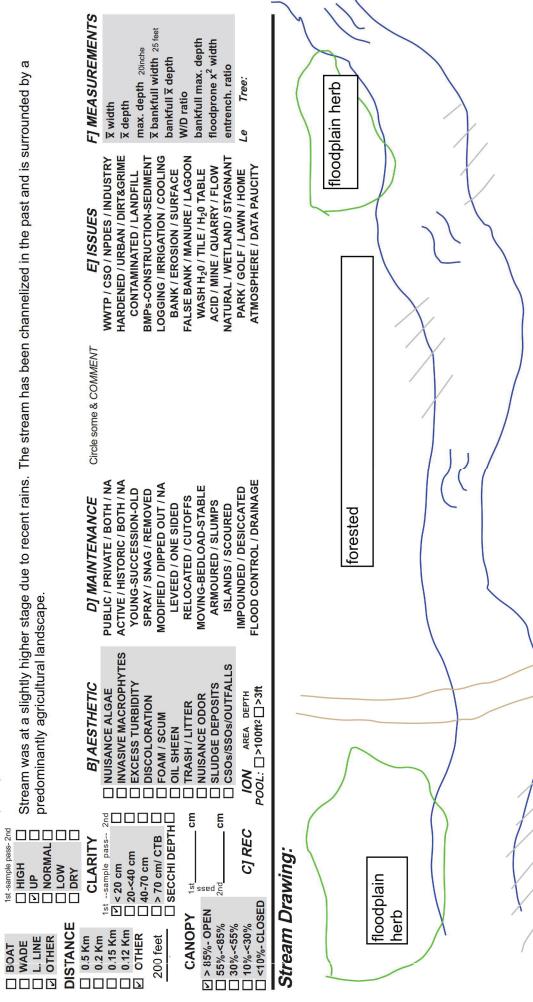
Stream 01		Good Warmwater
<b>ChieEPA</b>	Qualitative Habitat Evaluation Index and Use Assessment Field Sheet	GHEI Score: 61
Stream & Location: AEP Gen qh-jbl-20200323-01 / Pusheta Creek	nini-West Moulton 138 kV Transmission Line Scorers Full Name & Affiliation:	_ <b>RM:Date:</b> 03/23/2020 AEH, JBL / AECOM
River Code:	<b>STORET #: Lat./ Long.:</b> 40.556293, substrate TYPE BOXES;	, -84.212667 Office verified location
BEST TYPES POOL RIFF BLDR /SLABS [10] BOULDER [9] 5 COBBLE [8] 25 GRAVEL [7] 10 BEDROCK [5] NUMBER OF BEST TYPES: Comments	e every type present LE OTHER TYPES POOL RIFFLE HARDPAN [4] ORIGIN LIMESTONE [1] DETRITUS [3] TILLS [1] DETRITUS [3] TILLS [1] UMUCK [2] WETLANDS [0] SILT [2] 40 HARDPAN [0] ARTIFICIAL [0] 10 SANDSTONE [0] (Score natural substrates; ignore RIP/RAP [0] 4 or more [2] sludge from point-sources) LACUSTURINE [0] 3 or less [0] COAL FINES [-2]	
quality; <b>3</b> -Highest quality in moderate		of nignest       Check ONE (Or 2 & average)         pools.       □         EXTENSIVE >75% [11]         Image: Section 10 and 1
Comments		Maximum 14
3] CHANNEL MORPHOLOGY         SINUOSITY       DEVELOPME         □ HIGH [4]       □ EXCELLENT         □ MODERATE [3]       □ GOOD [5]         □ LOW [2]       □ FAIR [3]         □ NONE [1]       □ POOR [1]         Comments	_	Channel Maximum 20
River right looking downstream RI	RY NARROW < 5m [1]	TY R CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] [1] Indicate predominant land use(s)
Check ONE ( <i>ONLY</i> !) Check □ > 1m [6] ☑ POOL V □ 0.7-<1m [4] □ POOL V	E/RUN QUALITY         HANNEL WIDTH         ck ONE (Or 2 & average)         WIDTH > RIFFLE WIDTH [2]         TORRENTIAL [-1]         WIDTH = RIFFLE WIDTH [1]         VERY FAST [1]         INTERSTIT         WIDTH < RIFFLE WIDTH [0]	TIAL [-1] TENT [-2] Primary Contact Secondary Contact (circle one and comment on back) Pool
of riffle-obligate species: RIFFLE DEPTH RU ☑ BEST AREAS > 10cm [2] ☑ MAX	iles; Best areas must be large enough to support Check ONE (Or 2 & average).         IN DEPTH       RIFFLE / RUN SUBSTRATE       RIFI         MUM > 50cm [2]       STABLE (e.g., Cobble, Boulder) [2]         MUM < 50cm [1]	a population <u>NO RIFFLE [metric=0]</u> FLE / RUN EMBEDDEDNESS NONE [2] LOW [1] MODERATE [0] EXTENSIVE [-1] Maximum 8
DRAINAGE AREA	VERY LOW - LOW [2-4]         %POOL:         20           MODERATE [6-10]         %RUN:         10	%GLIDE: 50 Gradient 8 %RIFFLE: 20 Maximum 10 06/16/06



Check ALL that apply

**MET'HOD** 





forested



APPENDIX D

DELINEATED WETLANDS AND STREAMS PHOTOGRAPHS

### **PHOTOGRAPHIC RECORD WETLANDS**

**Client Name:** 

AEP

### Site Location:

West Moulton-Gemini 138 kV Transmission Line Project

Project No. 60567997

Wetland 06 Date: March 24, 2020 **Description:** PEM wetland Category 1 Facing North



### **PHOTOGRAPHIC RECORD WETLANDS**

**Client Name:** 

AEP

Date:

### Site Location:

West Moulton-Gemini 138 kV Transmission Line Project





### **PHOTOGRAPHIC RECORD WETLANDS**

**Client Name:** 

Wetland 06 Date:

March 24, 2020 **Description:** 

PEM wetland

Facing Soil Pit

Category 1

AEP

### Site Location:

West Moulton-Gemini 138 kV Transmission Line Project





## AECOM

### Imagine it. Delivered.

## PHOTOGRAPHIC RECORD WETLANDS

Client Name:

AEP

Wetland 15 Date:

March 3, 2021 **Description:** 

PEM wetland

Category 1

Facing East

### Site Location:

West Moulton-Gemini 138 kV Transmission Line Project





### **PHOTOGRAPHIC RECORD WETLANDS**

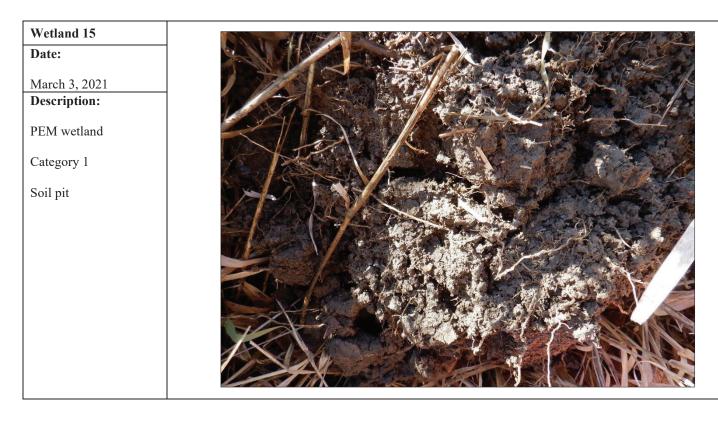
**Client Name:** 

AEP

### Site Location:

West Moulton-Gemini 138 kV Transmission Line Project





### PHOTOGRAPHIC RECORD **STREAMS**

### **Client Name:**

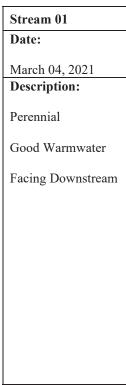
AEP

### Site Location:

West Moulton-Gemini 138 kV Transmission Line Project

Project No. 60567997







# Stream 01 Date: March 04, 2021 **Description:** Perennial Good Warmwater Facing Upstream

### PHOTOGRAPHIC RECORD **STREAMS**

**Client Name:** 

### AEP

### Site Location:

West Moulton-Gemini 138 kV Transmission Line Project

Project No. 60567997



Stream 01

Date:

March 04, 2021 **Description:** 

Perennial

Good Warmwater

Facing Substrate



APPENDIX E

IPAC AND ODNR GUIDANCE REGARDING BATS



## United States Department of the Interior

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



In Reply Refer To: Consultation Code: 03E15000-2021-SLI-1055 Event Code: 03E15000-2021-E-01523 Project Name: West Moulton-Gemini March 29, 2021

Subject: Updated list of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

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

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

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

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

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

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

### http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

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

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

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

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

## Attachment(s):

Official Species List

## **Official Species List**

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

This species list is provided by:

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

## **Project Summary**

Consultation Code:03E15000-2021-SLI-1055Event Code:03E15000-2021-E-01523Project Name:West Moulton-GeminiProject Type:TRANSMISSION LINEProject Description:Transmission line projectProject Location:Vest Moulton-Gemini

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@40.5580228,-84.21745636807478,14z</u>



Counties: Auglaize County, Ohio

## **Endangered Species Act Species**

There is a total of 2 threatened, endangered, or candidate species on this species list.

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

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

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

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

### Mammals

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/5949</u>	Endangered
<ul> <li>Northern Long-eared Bat Myotis septentrionalis</li> <li>No critical habitat has been designated for this species.</li> <li>This species only needs to be considered under the following conditions: <ul> <li>Incidental take of the northern long-eared bat is not prohibited at this location. Federal action agencies may conclude consultation using the streamlined process described at https://www.fws.gov/midwest/endangered/mammals/nleb/s7.html</li> </ul> </li> <li>Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a></li> </ul>	Threatened

### **Critical habitats**

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





### OHIO DIVISION OF WILDLIFE GUIDANCE FOR BAT SURVEYS AND TREE CLEARING JUNE 2020

### Agency Contacts:

### **ODNR-DOW Permit Coordinator:** Wildlife.Permits@dnr.state.oh.us, (614) 265-6315 **ODNR-DOW Bat Survey Coordinator:** Sarah Stankavich, sarah.stankavich@dnr.state.oh.us, (614) 265-6764

Due to the evolving situation with COVID-19, we are temporarily suspending bat-handling activities until more is known about the risk to North American bats. This document has been updated with new state guidance for the 2020 field season only, or until bat-handling activities are reinstated. These guidelines replace previous guidelines released in March 2020.

This guidance applies to state recommendations only. Contact the USFWS to determine if federal consultation is also necessary to comply with federal law.

### **Ohio Mist Net Surveys:**

Mist-netting for presence/absence surveys, education events, or research activities will not be authorized for the 2020 season.

### **Ohio Acoustic Surveys:**

Acoustic bat surveys for presence/absence will be accepted by ODNR for the 2020 season. Surveys should follow guidelines laid out in the USFWS Range-wide Indiana Bat Survey Guidelines (March 2020) with the following exceptions:

- Ohio survey dates are June 1 August 15, 2020
- After conducting automated analyses using one or more of the currently available 'approved' acoustic bat ID programs<sup>1</sup>, qualitative analysis (i.e., manual vetting) of any calls recorded from state-endangered species (*Myotis sodalis, M. septentrionalis<sup>2</sup>, M. lucifugus<sup>2</sup>*, and *Perimyotis subflavus<sup>2</sup>*) must be completed.
  - At a minimum, for each detector site/night a program considered presence of statelisted bats likely, review all files (including no IDs) from that site/night. If more than one acoustic bat ID program is used, qualitative analysis must also include a comparison of the results of each program by site and night.

### **During Field Season:**

• Prior to initiation of field work (a minimum of two weeks in advance), permittees must provide proposed survey plans to ODNR-DOW via e-mail. Plans must be reviewed and approved by ODNR-DOW before ANY surveys take place. Study plans must specify objectives, location details, dates of proposed work, and all other relevant details.

<sup>&</sup>lt;sup>1</sup> <u>https://www.fws.gov/midwest/Endangered/mammals/inba/surveys/inbaAcousticSoftware.html</u>

<sup>&</sup>lt;sup>2</sup> State listing as endangered effective July 1, 2020

### After Field Season:

 By March 15, you must submit your final ODNR-DOW report(s) from the previous summer. You are not required to fill out the ODNR-DOW Wildlife Diversity Bat Excel Spreadsheet; instead, please forward your USFWS Midwestern US Spreadsheet (found here: <u>http://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html)</u> to the ODNR-DOW Bat Survey Coordinator and ODNR-DOW Permit Coordinator and include your state permit number along with an electronic copy of the project report. Electronic summaries emailed during the field season are NOT considered as full compliance of this reporting requirement.

### Ohio Environmental Review Recommendations for projects involving disturbance near potential/known bat hibernacula (cliffs, caves, mines) or tree cutting:

**Step 1:** Coordinate with Ohio Division of Wildlife (DOW) regarding existing records for state-listed endangered bat summer and/or winter occurrence information.

If project site contains a known bat hibernaculum(a) -

- For state-listed endangered species other than the Indiana bat, a recommendation of 0.25mile tree cutting buffer around all known entrances to protect existing conditions at the hibernaculum(a). If the project involves subsurface disturbance, consultation with DOW is required.

- Limited summer and winter tree cutting may be permitted within the buffer following guidelines detailed below. Coordinate with DOW before cutting.

If a project site does not contain known bat hibernaculum(a)

- Conduct a habitat assessment (desktop or field-based, using methods detailed in current USFWS Range-wide Indiana Bat Guidelines) to determine if a potential hibernaculum(a) is present within the action area.

Step 2: When conducted, a presence/absence survey must follow current DOW guidelines.

Step 3: If a state-listed endangered bat is captured or recorded during the survey:

Recommendation of no summer tree cutting, or limited cutting following guidelines detailed below, within 5 miles of the capture site if a roost is not located.
Recommendation of no summer tree cutting, or limited cutting following guidelines detailed below, within 2.5 miles of a roost tree if located.

If no state-listed endangered bat is captured or recorded during the survey:

- Summer tree cutting may proceed for 5 years before a new survey is needed under state guidance.

<u>Limited summer tree cutting guidance for bats that are only state-listed endangered</u>: Limited tree cutting in summer may be permitted after consultation with DOW, but clearing trees with the following characteristics should be avoided unless they pose a hazard: dead or live trees of any size with loose, shaggy bark; crevices, holes, or cavities; live trees of any species with DBH  $\geq 20$ .

### **FREOUENTLY ASKED OUESTIONS**

### When does the Bat Survey protocol have to be used?

This protocol should be used anytime Indiana bat, northern long-eared bat, little brown bat, or tricolored bat summer presence/probable absence surveys are conducted in the state of Ohio. For 2020 only, acoustic surveys will meet the ODNR-DOW requirements unless new guidance allowing for the handling of bats during presence/absence surveys is released from USFWS.

### How many net surveys are required for presence/probably absence?

As described in the current USFWS Range-wide Indiana Bat Guidelines: Linear projects: a minimum of 2 detector nights per km (0.6 miles) of suitable summer habitat

Non-linear projects: a minimum of 8 detector nights per 123 acres (0.5 km<sup>2</sup>) of suitable summer habitat. At least 2 detector locations per 123 acre "site" shall be sampled until at least 8 detector nights has been completed over the course of at least 2 calendar nights (may be consecutive). For example:

- 4 detectors for 2 nights each (can sample the same location or move within the site)
- 2 detectors for 4 nights each (can sample the same location or move within the site)
- 1 detector for 8 nights (must sample at least 2 locations and move within the site)

### How long are the results of the surveys valid for an assessment of an area?

Mist-net or acoustic surveys documenting probable absence of state-listed endangered bats are valid for five years.

### When can acoustic surveys occur in Ohio?

In Ohio, acoustic surveys may only be conducted from June 1 through August 15 unless indicated otherwise in your state permit. Any surveys outside of the June 1 - August 15 timeframe cannot be used in Ohio to assess the presence/probable absence of state-listed bats.

## Can a presence/probable absence survey be conducted within a known Indiana bat and/or northern long-eared bat capture/detection buffer?

Surveys generally cannot be used to document presence/probable absence of state-listed endangered bats bat where presence of the species has already been confirmed by prior surveys.

# What if a project is proposing to clear trees between April 1 and September 30 when bats may be present but no bat records exist in the project area?

Any Ohio project that is not within a known bat record buffer, and tree clearing between April 1 and September 31 is being proposed, may have a presence/absence survey conducted between June 1 and August 15 following the range-wide guidance. If a presence/absence survey is not performed, presence of listed bats is assumed.

### How does take of northern long-eared bats differ from Indiana bats?

Under Ohio law, there is no exemption for take of any listed bat species.

### This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

4/9/2021 2:45:37 PM

in

Case No(s). 21-0167-EL-BLN

Summary: Notice Notice of supplemental information and associated exhibit for the West Moulton-Gemini 138 kV Transmission Line Project electronically filed by Tanner Wolffram on behalf of AEP Ohio Transmission Company, Inc.