# Letter of Notification for the Fostoria – East Lima 138 kV Transmission Line Rebuild Project

(East Lima – North Woodcock and New Liberty – West End Fostoria)



PUCO Case No. 24-0076-EL-BLN

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

Submitted by:
AEP Ohio Transmission Company, Inc.

#### LETTER OF NOTIFICATION

#### AEP Ohio Transmission Company, Inc.

Fostoria-East Lima 138 kV Transmission Line Rebuild Project (East Lima – North Woodcock and New Liberty – West End Fostoria)

#### 4906-6-05 Accelerated Application Requirements

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

#### 4906-6-05(B) General Information

#### **B(1) Project Description**

The name of the project and applicant's reference number, names and reference number(s) of resulting circuits, a brief description of the project, and why the project meets the requirements for a Letter of Notification.

The Company proposes the Fostoria – East Lima 138 kV Transmission Line Rebuild Project (East Lima-North Woodcock and New Liberty-West End Fostoria) (the "Project"), located in Washington, Cass, Allen, and Liberty townships in Hancock County and Richland, Monroe, and Bath townships in Allen County. The approximately 41.3-mile 138 kV transmission line rebuild begins at the existing East Lima Station traveling northeast through North Woodcock Station, New Liberty Station, North Findlay Station, Ebersole Station and ending at the West End Fostoria Station. The Company proposes to rebuild several 138 kV transmission lines which will cumulatively be renamed to the Fostoria-East Lima 138 kV Transmission Line and include the following:

- 11.7 miles of the existing double-circuit transmission line between East Lima Station and North Woodcock Station (the "East Lima – North Woodcock");
- 6.6 miles of the existing double-circuit transmission line between New Liberty Station and Ebersole Station (the "New Liberty Ebersole");
- 6.9 miles of the existing double-circuit transmission line between Ebersole Station and Fostoria Central Station (the "Ebersole Fostoria Central");
- 1.6 miles of the existing single-circuit transmission line between Fostoria Central Station and West End Fostoria Station (the "Fostoria Central Extension"); and
- 14.5 miles of the existing double-circuit North Woodcock-New Liberty 135 kV Transmission Line (this rebuild section will be filed under a separate application in Case No. 24-0077-EL-BLN, by Ohio Power Company).

The Project will be rebuilt within the existing right-of-way (ROW) by replacing steel lattice tower structures with steel monopole structures and requires only supplemental easements. Maps 1 and 2 show the location of the Project.

The Project meets the requirements for a Letter of Notification ("LON") as defined by Items 2(b) of Appendix A to Ohio Administrative Code Section 4906-1-01, *Application Requirement Matrix for Electric Power Transmission Lines*:

- (2) Adding new circuits on existing structures designed for multiple circuit use, replacing conductors on existing structures with larger or bundled constructors, adding structures to an existing transmission line, or replacing structures with a different type of structure, for a distance of:
  - (b) More than two miles.

The Project has been assigned Case No. 24-0076-EL-BLN.

#### **B(2)** Statement of Need

If the proposed Letter of Notification project is an electric power transmission line or gas or natural gas transmission line, a statement explaining the need for the proposed facility.

The Fostoria – East Lima 138kV Transmission Line is 41.3 miles long and consists primarily of double circuit steel lattice towers, originally installed in 1924. The double circuit line connects the Company's 138 kV systems between Lima, Findlay, and Fostoria areas of Ohio. In total there are 8 stations to which the line connects to. The stations associated with this Project either provide service to industrial and distribution customers in the area or provide primary sources into the area's sub-transmission systems.

There are numerous asset renewal concerns on the transmission line. The majority of the 1924 structures are steel lattice towers. Pre-1930's era lattice structure design does not account for ice/wind loadings and utilize inadequate lightning protection. In addition, the following issues have been observed on similar construction/vintage lines across the AEP footprint: conductor steel core strength has diminished, significant wear/corrosion of hardware and insulators, loss of galvanizing and corresponding strength of steel lattice members and weakened foundations and tower legs. The Fostoria – East Lima 138 kV Transmission Line has displayed similar signs of degradation.

The overall deterioration of the line is an indicator of the need to rebuild the asset rather than repair the 100-year-old facility. There are 44 structures with at least one open condition, which affects approximately 22% of the structures along the existing line. Some of the open conditions identified consisted of broken conductor strands, burned insulators, broken/damaged lattice members and hardware. An assessment conducted by ground crews for a portion of the structures along the existing line confirmed these open conditions. In addition to the open conditions identified as part of conventional inspection cycles, concerns with ovalization, wear, and corrosion of connection points were identified through targeted UAV inspections of the line.

Since 2015, customers have experienced 8 total outages across the circuits on this line. The permanent outages on the line between the Ebersole Station and New Liberty Station have caused 19,640 minutes of interruption for 326 distribution customers at Flag City Substation affecting 10.2 MVA of load. Failure to move forward with this Project will continue to expose customers served from the line to outages as the asset continues to deteriorate.

The need and solutions for rebuilding the entire asset were submitted to PJM as a single Fostoria – East Lima 138 kV Transmission Line Rebuild Project on 05/21/2021 and 07/09/2021 respectively, and subsequently assigned a PJM identifier of s2812 (see **Appendix B**). The Project solution had not been formally vetted by PJM at the time of the Company's 2023 LTFR, but the Project will be included in the Company's 2024 LTFR.

#### **B(3) Project Location**

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

The location of the Project in relation to existing transmission lines and substations is shown on Map 1, in **Appendix A**. Map 2, in **Appendix A**, identifies the Project components on a 2021 aerial photograph.

#### **B(4) Alternatives Considered**

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

The entire existing 138 kV transmission line will be rebuilt on centerline and within existing ROW. The goal of selecting a suitable route for the Project was to minimize impacts on land use and natural and cultural resources while avoiding circuitous routes, significantly higher costs, and non-standard design requirements. Based on desktop and field examinations, the Company identified rebuilding the entire 26.7-mile-long 138 kV transmission line in-place as the best and most reasonable route.

The Project route is direct and impacts no new parcels or landowners; therefore, the Project reduces new viewshed impacts and would not limit future development in the area. Additionally, the design provides for proper clearances within the existing ROW and existing ROW easements permit rebuilding and upgrading the existing line. Thus, major route alternatives were not considered for rebuilding the existing transmission line. Additionally, the ecological and cultural field surveys conducted within the existing easements determined that no hydrological or cultural features would be permanently impacted by the Project.

#### **B(5) Public Information Program**

The applicant shall describe its public information program to inform affected property owners and tenants of the nature of the project and the proposed timeframe for project construction and restoration activities.

The Company will inform affected property owners and tenants about this Project through several different mediums. Within seven days of filing this LON, the Company will issue a public notice in a newspaper of general circulation in the Project area. The notice will comply with all requirements of OAC Section 4906-6-08(A)(1-6). Further, the Company will mail a letter, via first class mail, to affected landowners, tenants, contiguous owners and any other landowner the Company may approach for an easement necessary for the construction, operation, or maintenance of the Project. The letter will comply with all requirements of OAC Section 4906-6-08(B). The Company maintains a website (http://aeptransmission.com/ohio/) which hosts an electronic copy of this LON and the public notice of this LON. An electronic and paper copy of the LON will be served to the public library in each AEP Ohio Transmission Company, Inc.

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political subdivision affected by this Project. In addition, the Company retains ROW land agents that discuss Project timelines, construction and restoration activities and convey this information to affected owners and tenants.

#### **B(6) Construction Schedule**

The applicant shall provide an anticipated construction schedule and proposed inservice date of the project.

Construction of the Project is planned to begin in May 2024 with an anticipated in-service date of December 2026.

#### B(7) Area Map

The applicant shall provide a map of at least 1:24,000 scale clearly depicting the facility with clearly marked streets, roads, and highways, and an aerial image.

Map 1, in **Appendix A**, identifies the location of the Project area on a United States Geological Survey 1:24,000 quadrangle map. **Appendix A**, Map 2 shows the Project area on a 2021 aerial photograph.

To visit the Project from downtown Columbus, Ohio, take I-70 W towards Dayton. Then, use the right three lanes to take exit 93, onto I-270 N towards Cleveland. Continue north on I-270 for 9 miles, then take exit 17B to merge onto OH161W/US-33 W towards Marysville. Follow US-33W for approximately 59 miles. Continue to follow US-33 W by turning left onto US-33 W/Market Street and drive for approximately 9 miles. Then, turn right onto State Route 65 N and continue for approximately 10 miles until you see the on ramp to I-75 N towards Toledo. Merge onto I-75 N towards E Bluelick Road in Bath Township. After approximately 7 miles, take exit 130 for Bluelick Road. At the end of the exit ramp, turn left onto Bluelick Road and continue for 0.3 mile. Take the first right turn onto Wolfe Road. Continue on Wolfe Road for 1.3 miles to arrive at East Lima Station. The address for East Lima Station is 4284 Wolfe Road, Lima, Ohio 45807 at latitude 40.800626, longitude -84030737.

#### **B(8) Property Agreements**

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

The Project will be constructed within existing ROW and will not impact any new parcels or landowners. **Appendix C** provides a table of property parcel numbers with an indication as to the

easement type and whether the easement has been obtained in order to construct and operate the facility.

#### **B(9) Technical Features**

The applicant shall describe the following information regarding the technical features of the project:

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

The rebuilt Fostoria – East Lima 138 kV Transmission Line, specifically between East Lima Station and North Woodcock Station, is estimated to include the following:

Voltage: 138 kV

Conductors: 795 kcmil 26/7 ACSR "Drake"

Static Wire: 7#8 Alumoweld

Insulators: Polymer ROW Width: 100 feet

Structure Types: Forty-nine (49) monopole double circuit (DC) suspension

Four (4) monopole DC deadend Four (4) two pole DC deadend

Four (4) monopole single circuit (SC) deadend

Two (2) monopole SC suspension Three (3) three pole SC deadend

The rebuilt Fostoria – East Lima 138 kV Transmission Line, specifically between New Liberty Station and Ebersole Station, is estimated to include the following:

Voltage: 138 kV

Conductors: 795 kcmil 26/7 ACSR "Drake" Static Wire: 7#8 Alumoweld, 96 OPGW

Insulators: Polymer ROW Width: 100 feet

Structure Types: Twenty-seven (27) DC suspension

Four (4) monopole DC deadend Two (2) two pole DC deadend Six (6) monopole SC deadend

The rebuilt Fostoria – East Lima 138 kV Transmission Line, specifically between Ebersole Station and Fostoria Central Station, is estimated to include the following:

Voltage: 138 kV

Conductors: 795 kcmil 26/7 ACSR "Drake" 7#8 Alumoweld, 96 OPGW

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Insulators: Polymer ROW Width: 100 feet

Structure Types: Twenty-nine (29) monopole DC suspension

Four (4) monopole DC deadend Three (3) two pole DC deadend

The rebuilt Fostoria – East Lima 138 kV Transmission Line, specifically between Fostoria Central Station and West End Fostoria Station, is estimated to include the following:

Voltage: 138 kV

Conductors: 795 kcmil 26/7 ACSR "Drake"

Static Wire: 96 OPGW Insulators: Polymer ROW Width: 100 feet

Structure Types: Two (2) monopole SC deadend

Eight (8) monopole SC suspension

#### B(9)(b) Electric and Magnetic Fields

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

#### B(9)(b)(i) Calculated Electric and Magnetic Field Strength Levels

#### i) Calculated Electric and Magnetic Field Levels

Three loading conditions were examined: (1) Normal Maximum Loading, (2) Emergency Loading, and (3) Winter Normal Conductor Rating, consistent with the OPSB requirements. Normal Maximum Loading represents the peak flow expected with all system facilities in service; daily/hourly flows fluctuate below this level. Emergency loading is the maximum current flow during unusual (contingency) conditions, which exist only for short periods of time. Winter normal ("WN") conductor rating represents the maximum current flow that a line, including its terminal equipment, can carry during winter conditions. It is not anticipated that this circuit of this line would operate at its WN rating in the foreseeable future.

Electric and Magnetic Field ("EMF") levels were computed one meter above ground under the line and at the ROW edges (50/50 feet, left/right, of centerline).

Our results, calculated using EPRI's EMF Workstation 2015 software, are summarized below.

| East Lima - North Woodcock           |          |                         |                               |                           |                         |
|--------------------------------------|----------|-------------------------|-------------------------------|---------------------------|-------------------------|
| Condition                            | Load (A) | Phasing<br>Arrangements | Ground<br>Clearance<br>(feet) | Electric Field<br>(kV/m)* | Magnetic Field<br>(mG)* |
| (1) Normal Max.<br>Loading^          | 167/167  | C/A<br>B/B<br>A/C       | 33                            | 0.52/1.73/0.64            | 14.28/32.08/8.29        |
| (2) Emergency<br>Line Loading^^      | 284/268  | C/A<br>B/B<br>A/C       | 28                            | 0.52/1.73/0.64            | 24.14/53.41/14.13       |
| (3) Winter<br>Conductor<br>Rating^^^ | 284/268  | C/A<br>B/B<br>A/C       | 33                            | 0.52/1.08/0.27            | 11.81/18.12/8.16        |

| New Liberty - Ebersole               |          |                         |                               |                           |                         |
|--------------------------------------|----------|-------------------------|-------------------------------|---------------------------|-------------------------|
| Condition                            | Load (A) | Phasing<br>Arrangements | Ground<br>Clearance<br>(feet) | Electric Field<br>(kV/m)* | Magnetic Field<br>(mG)* |
| (1) Normal Max.<br>Loading^          | 201/188  | C/A<br>B/B<br>A/C       | 32                            | 0.30/1.49/0.45            | 7.66/30.76/7.98         |
| (2) Emergency<br>Line Loading^^      | 255/264  | C/A<br>B/B<br>A/C       | 26                            | 0.30/1.49/0.45            | 9.33/40.41/10.96        |
| (3) Winter<br>Conductor<br>Rating^^^ | 184/213  | C/A<br>B/B<br>A/C       | 32                            | 0.25/0.93/0.40            | 5.62/19.64/7.85         |

| Ebersole – Fostoria Central          |          |                         |                               |                           |                         |
|--------------------------------------|----------|-------------------------|-------------------------------|---------------------------|-------------------------|
| Condition                            | Load (A) | Phasing<br>Arrangements | Ground<br>Clearance<br>(feet) | Electric Field<br>(kV/m)* | Magnetic Field<br>(mG)* |
| (1) Normal Max.<br>Loading^          | 301/310  | C/A<br>B/B<br>A/C       | 31                            | 0.63/1.30/0.72            | 16.67/39.30/17.54       |
| (2) Emergency<br>Line Loading^^      | 615/619  | C/A<br>B/B<br>A/C       | 29                            | 0.63/1.30/0.72            | 33.94/79.38/35.24       |
| (3) Winter<br>Conductor<br>Rating^^^ | 284/293  | C/A<br>B/B<br>A/C       | 31                            | 0.64/1.21/0.70            | 15.54/32.37/16.38       |

| Fostoria Central Extension           |          |                         |                               |                           |                         |
|--------------------------------------|----------|-------------------------|-------------------------------|---------------------------|-------------------------|
| Condition                            | Load (A) | Phasing<br>Arrangements | Ground<br>Clearance<br>(feet) | Electric Field<br>(kV/m)* | Magnetic Field<br>(mG)* |
| (1) Normal Max.<br>Loading^          | 113      | A<br>B<br>C             | 32                            | 1.41/1.76/0.78            | 11.82/21.68/21.68       |
| (2) Emergency<br>Line Loading^^      | 184      | A<br>B<br>C             | 25                            | 1.41/1.76/0.78            | 19.24/43.62/43.62       |
| (3) Winter<br>Conductor<br>Rating^^^ | 109      | A<br>B<br>C             | 32                            | 1.34/1.49/0.72            | 10.81/18.76/18.76       |

<sup>\*</sup>EMF levels (left ROW edge/maximum/right ROW edge) computed one meter above ground at the point of minimum ground clearance, assuming balanced phase currents and 1.0 P.U. Voltages. ROW width is 50 feet (left) and 50 feet (right) of centerline, respectively.

For power-frequency EMF, IEEE Standard C95.6TM-2002 recommends the following limits:

|                             | General | Controlled  |
|-----------------------------|---------|-------------|
|                             | Public  | Environment |
|                             |         |             |
| Electric Field Limit (kV/m) | 5.0     | 20.0        |
| Magnetic Field Limit (mG)   | 9040    | 27,100      |

The above EMF levels are well within the limits specified in IEEE Standard C95.6TM-2002. Those limits have been established to "prevent harmful effects in human beings exposed to electromagnetic fields in the frequency range of o-3 kHz."

#### B(9)(b)(ii) Design Alternatives

A discussion of the applicant's consideration of design alternatives with respect to electric and magnetic fields and their strength levels, including alternate conductor configuration and phasing, tower height, corridor location, and right-of-way width.

Design alternatives were not considered due to EMF strength levels. Transmission lines, when energized, generate EMF. Laboratory studies have failed to establish a strong correlation between exposure to EMF and effects on human health. However, some people are concerned that EMF have impacts on human health. Due to these concerns, EMF associated with the new circuits was calculated and set forth in the table above. The EMF was computed in a manner to maximize the estimate,

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<sup>^</sup>Peak line flow expected with all system facilities in service.

<sup>^^</sup>Maximum flow during a critical system contingency

<sup>^^^</sup>Maximum continuous flow that the line, including its terminal equipment, can withstand during winter conditions.

assuming the highest reasonable input values based on conditions along the proposed transmission line rebuild. Normal daily EMF levels would be less than these, which were calculated at maximum load conditions. Based on studies from the National Institutes of Health, the magnetic field (measured in milliGauss, or mG) associated with emergency loading at the highest EMF value for this transmission line is lower than those associated with normal household appliances like microwave ovens, electric shavers, and hair dryers. For additional information regarding EMF, the National Institutes of Health has posted information on their website:

http://www.niehs.nih.gov/health/topics/agents/emf/.

#### B(9)(b)(ii)(c) Project Cost

The estimated capital cost of the project.

The cost estimate for the proposed Project, which is comprised of applicable tangible and capital costs, is approximately \$69,475,000 using a Class 4 estimate. Pursuant to the PJM OATT, the costs for this Project will be recovered in the Company's FERC formula rate (Attachment H-20 to the PJM OATT) and allocated to the AEP Zone.

#### **B(10) Social and Ecological Impacts**

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

#### **B(10)(a) Operating Characteristics**

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

The portion of the Project between East Lima Station and North Woodcock Station is located in Bath, Monroe and Richland townships of Allen County and goes through the village of Bluffton; the portion of the Project between New Liberty Station and Ebersole Station is located in Liberty, Allen, and Cass Townships of Hancock County and goes through the city of Findlay Ohio; the portion of the Project between Ebersole Station and Fostoria Central Station is located in Cass and Washington Townships in Hancock County; and the portion of the Project between Fostoria Central Station and West End Fostoria Station is located in Washington Township in Hancock County.

Existing land uses surrounding the Project predominantly consist of cropland or pasture/hayfield with residential properties and forested lands scattered throughout. The Project passes through two areas of dense residential development when it goes through the Village of Bluffton and the City of Findlay. Commercial and industrial buildings are less common, with only a few located north of North Findlay Station. No protected areas are located within 1,000 feet of the Project. Rebuilding the existing transmission line within existing ROW minimizes effects on existing land use.

#### B(10)(b) Agricultural Land Information

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

The Project occupies approximately 325 acres; of that, approximately 263 acres have been historically used as agricultural land, including cropland or pasture/hay field.

Auditor offices of Allen County and Hancock County were contacted on September 1, 2023, requesting agricultural district land information crossed by the Project. Based on email correspondence with the Allen County Auditor's Office on January 30, 2024, 16 properties registered as agricultural district land are crossed by the Project. Based on email correspondence with the Hancock County Auditor's Office on January 29, 2024, 12 properties registered as agricultural district land are crossed by the Project. Overall, the Project crosses a combined 72 acres of agricultural district land in Allen and Hancock counties.

The Fostoria – East Lima 138 kV Transmission Line was installed in 1924 and has since co-existed with agricultural land uses; therefore, the proposed rebuild is not anticipated to change the existing agricultural landscape. Additionally, the existing steel lattice towers will be replaced with steel monopoles, which require smaller foundations.

#### B(10)(c) Archaeological and Cultural Resources

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

The Company's consultant completed Phase I Archaeological and History/Architectural surveys, which involved subsurface testing and visual inspection and was coordinated with the State Historic Preservation Office ("SHPO") between July and December 2022. The Company's consultant recommended that the Project would have no adverse effect on historic properties and no further cultural resource work would be necessary. In the responses received on August 1 and 8, 2022 and January 1, 2023, SHPO supported the consultant's recommendations and indicated that no additional archaeological survey is recommended. A copy of the concurrence letters from SHPO are provided in **Appendix D**.

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

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

A Notice of Intent ("NOI") will be filed with the Ohio Environmental Protection Agency ("OEPA") for authorization of construction storm water discharges under General Permit OHCooooo6 and local stormwater permits will be obtained from Allen and Hancock counties. The Company will implement and maintain best management practices as outlined in the Project-specific SWPPP to minimize erosion sediment to Project surface waters during storm events. Section 401/404 permits from the U.S. Army Corps of Engineers ("USACE") and/or OEPA are not currently anticipated for the Project.

The Project proposes to rebuild an existing line and will generally involve pole-for-pole structure replacements near existing structure locations. No existing or proposed structures are located within the Federal Emergency Management Agency's ("FEMA") designated 100-year floodplain or regulatory floodway areas. Floodplain permitting may be required for the Project if a substantial change in Base Flood Elevation ("BFE") is anticipated from Project activities. Local floodplain permits will be obtained from Allen and Handcock counties prior to the start of construction should they be deemed necessary.

There are no other known local, state, or federal requirements that must be met prior to commencement of the Project.

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

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

The Company's consultant submitted coordination letters to the United States Fish and Wildlife Service ("USFWS") and the Ohio Department of Natural Resources ("ODNR") Ohio Natural Heritage Program ("ONHP") and Division of Wildlife ("DOW"), seeking environmental reviews of potential impacts to threatened or endangered species for the Project. As presented in **Appendix D**, responses from USFWS and ODNR were received on August 8, 2022 and July 27, 2022, respectively.

The August 2022 USFWS response indicated that the entire Project is within the range of the federally endangered Indiana bat (Myotis sodalis) and the federally threatened northern long-eared bat (Myotis septentrionalis) in Ohio. The USFWS recommends avoiding trees  $\geq 3$  inches diameter at breast height (dbh) wherever possible. If no caves or abandoned mines are present and trees  $\geq 3$  inches dbh cannot be avoided, the USFWS recommends implementing seasonal tree cutting (October 1 through March 31). Since the entire Project will be rebuilt within existing, maintained ROW, minimal tree clearing is

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anticipated. The Company will adhere to seasonal tree clearing restrictions between October 1 and March 31; therefore, adverse impacts to these species are not anticipated.

Due to the Project's type, size, and location, the USFWS does not anticipate adverse impacts to any other endangered, threatened, or proposed species, or proposed or designated critical habitat.

The July 2022 ODNR DOW response indicated that the Project is located within the range of the following protected bat species: the state endangered and federally endangered Indiana bat, the state endangered and federally threatened northern long-eared bat, the state endangered little brown bat (*Myotis lucifugus*), and the state endangered tricolored bat (*Perimyotis subflavus*). The DOW also recommends seasonal tree cutting for trees with loose, shaggy bark and/or crevises, holes, or cavitites, as well as trees ≥ 20 inches dbh between October 1 and March 31 to avoid adverse impacts to these species. If suitable habitat is present within the Project area and trees must be cut in the summer months, the DOW recommends that either a mist net survey or acoustic survey is conducted between June 1 and August 15 prior to any cutting. The Company's consultant performed a desktop assessment for potential hibernacula within a 0.25 mile radius of the Project, which indicated no potential or known hibernaculum. Since the Project proposes rebuilding existing transmission lines within maintained ROW, minimal tree clearing is required for the Project. The Company will adhere to seasonal tree clearing restrictions between October 1 and March 31; therefore, adverse impacts to these species are not anticipated.

The DOW also indicated that the Project is within the range of several state or federal listed freshwater mussels: the clubshell (*Pleurobema clava*), a federally endangered species; the rayed bean (*Villosa fabalis*), a federally threatened species; the purple lilliput (*Toxolasma lividum*), a state endangered species; the pondhorn (*Uniomerus tetralasmus*), a state threatened species; and the salamander mussel (*Simpsonaias ambigua*). Additionally, the Project is located within the range of the western banded killifish (*Fundulus diaphanous menona*), a state endangered fish. The DOW indicated that due to the location and that no in-water work is proposed in a perennial stream, the Project is not likely to impact these aquatic species.

The DOW indicated that the Project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species that prefers wet meadows and other wetlands. The Company's consultant identified no potentially suitable habitat within the Project area; therefore, no adverse impacts are anticipated for the species.

The Project is within the range of the black-crowned night-heron (Nycticora nycticroax), a state threatened bird. Night-herons are so named because they are nocturnal, conducting most foraging in the evening hours or at night, and roost in trees near wetlands and waterbodies during the day. Night herons are migratory and are typically found in Ohio from April 1st through December 1st but can be found in more urbanized areas with reliable food sources year-round. Black-crowned night-herons primarily forage in wetlands and other shallow aquatic habitats, and roost in trees nearby. Night-herons nest in small trees, saplings, shrubs, or sometimes on the ground, near bodies of water and wetlands. If this type of habitat is potentially impacted by project activities, the DOW recommends avoiding construction during the species' nesting period of May 1 through July 31. The Company's

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consultant identified no potentially suitable habitat; therefore, the Project is not anticipated to impact the black-crowned night-heron.

The Project is within the range of the least bittern (*Ixobrychus exilis*), a state threatened bird that prefers dense emergent wetlands with thick stands of cattails, sedges, sawgrass, or other semiaquatic vegetation interspersed with woody vegetation and open water. If this type of habitat is potentially impacted, the DOW recommends avoiding constructions during the species' nesting period (May 1 through July 31). The Company's consultant identified no potentially suitable habitat; therefore, the Project is not anticipated to impact the least bittern.

The DOW indicated that the Project is within the range of the northern harrier (*Circus hudsonius*), a state endangered bird and common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies and hunt over grasslands. The female builds a nest out of sticks on the ground, often on top of a mound. If these types of habitats are potentially impacted, the DOW recommends avoiding construction during the species' nesting period (April 15 through July 31). The Company's consultant identified no potentially suitable habitat within the Project; therefore, no adverse impacts are anticipated for the northern harrier.

#### B(10)(f) Areas of Ecological Concern

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

In June and July 2022, wetland and stream delineation surveys were completed by the Company's consultant for a 100-foot-wide environmental survey corridor (ESC) for the entire Fostoria – East Lima 138 kV Transmission Line, which encompasses the Project area in addition to the North Woodcock – New Liberty 138 kV Transmission Line Rebuild Project (see Case No. 24-0077-EL-BLN). The Project's ecological survey report is summarized below and presented in its entirety in **Appendix E**.

Within the 100-foot-wide ESC encompassing the Project, the Company's consultant identified: 30 wetlands, including 28 palustrine emergent ("PEM") wetlands, one palustrine scrub-shrub ("PSS") wetland, and one PEM/palustrine forested ("PFO") wetland complex; 15 streams, including 11 perennial streams and four intermittent streams; as well as three freshwater ponds. No existing or proposed structures are located within the delineated wetland, pond, or stream areas; therefore, the Company does not anticipate any impacts to these features as a result of the Project.

FEMA Flood Insurance Rate Maps ("FIRMs") were reviewed to identify floodplains/flood hazard areas within the Project area: FIRM panels 39003C0090D, 39003C0095E, 39003C0210D, 39003C0220D, 39003C0230E, 39063C0115E, 39063C0120E, 39063C0205E, 39063C0208E, 39063C0209E, 39063C0230E, 39063C0232E, 39063C0235E, 39063C0295E, 39137C0315D, 39137C0320D,

AEP Ohio Transmission Company, Inc.

Fostoria-East Lima 138 kV Transmission Line Rebuild Project (East Lima – North Woodcock and New Liberty – West End Fostoria) 24-0076-EL-BLN

39173Co42oD, 39173Co44oD, and 39173Co445D. Based on this mapping, five (5) mapped FEMA-designated 100-year floodplain areas and two (2) FEMA-designated regulatory floodway areas are located in the Project area. However, no proposed structures are located within FEMA-designated 100-year floodplain or regulatory floodway areas. Still, floodplain permitting may be required for the Project if a substantial change in BFE is anticipated from Project activities. Local floodplain permits will be obtained from Allen and Handcock counties prior to the start of construction should they be deemed necessary.

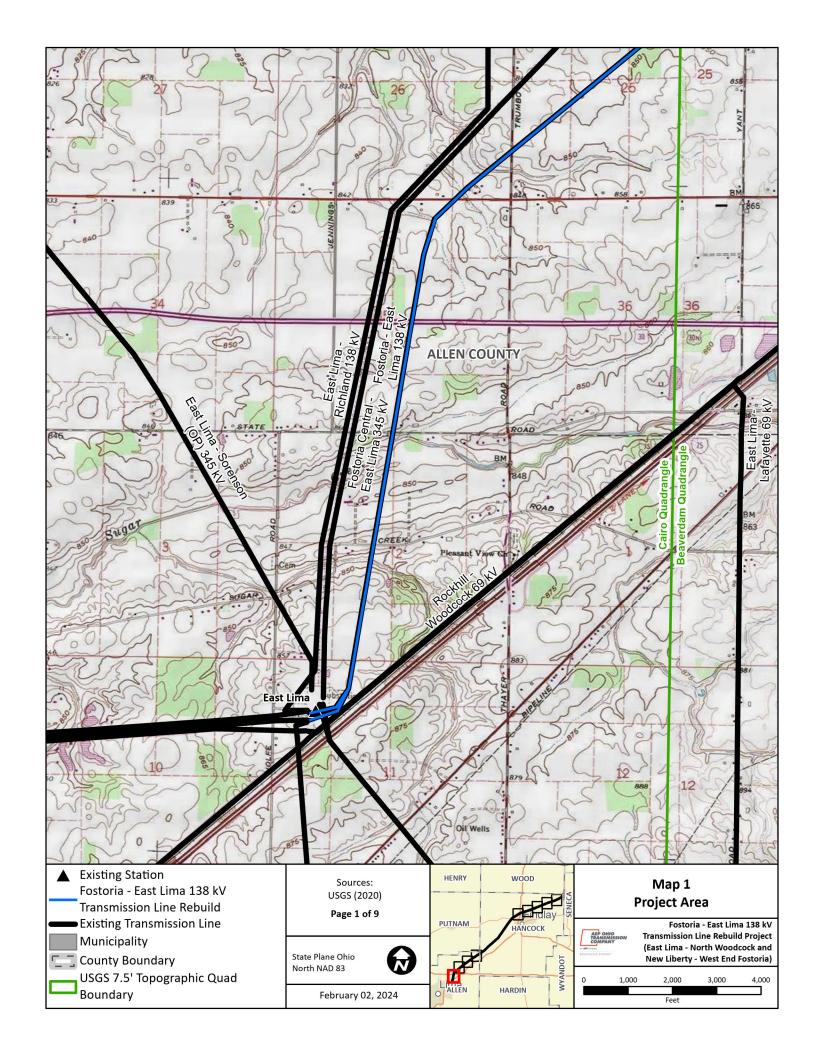
No other areas of ecological concern were identified within the Project area.

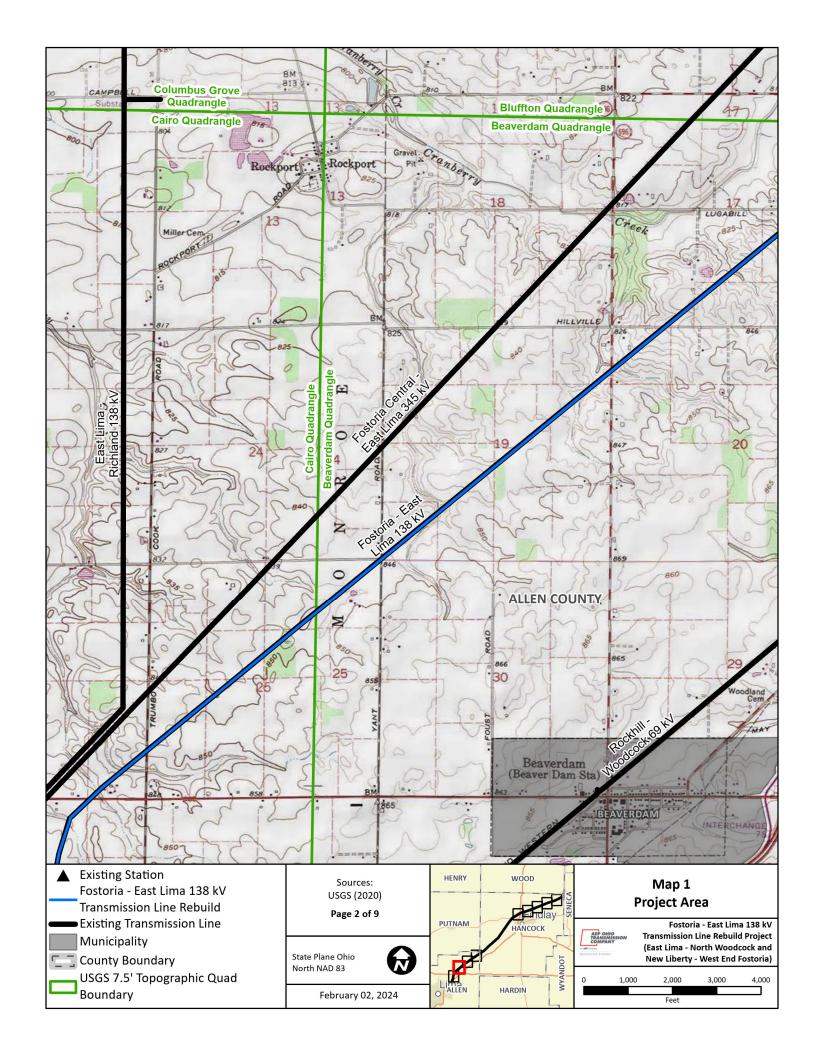
#### **B(10)(g) Unusual Conditions**

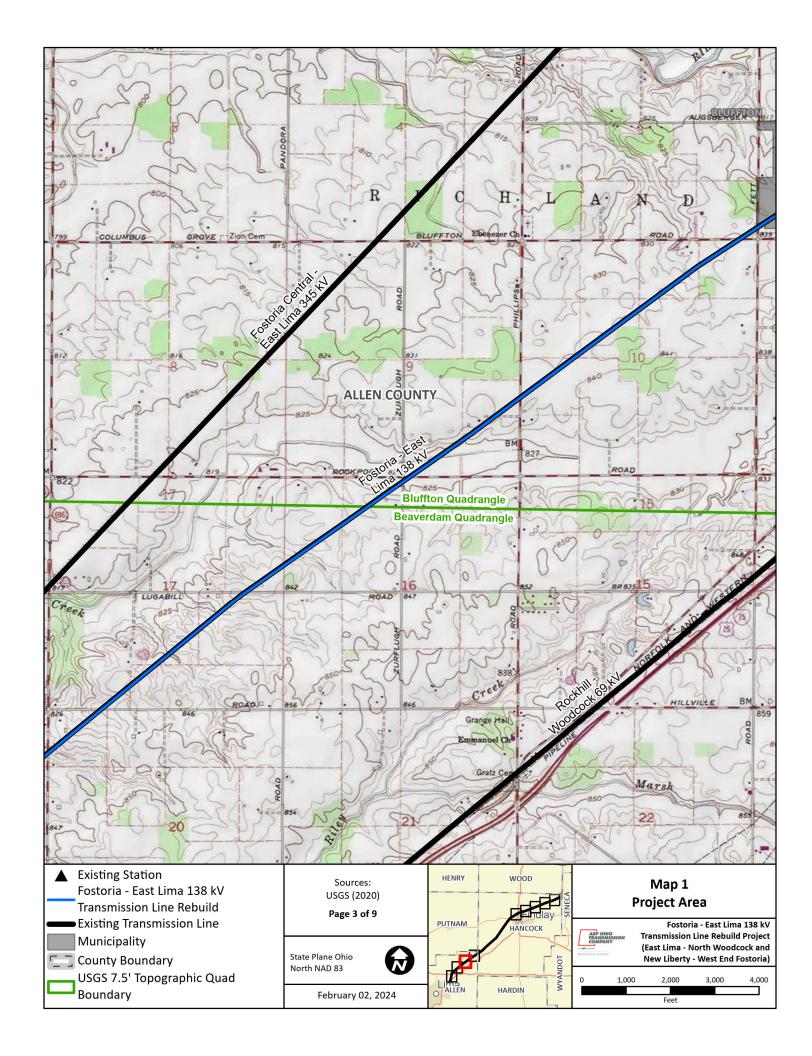
Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.

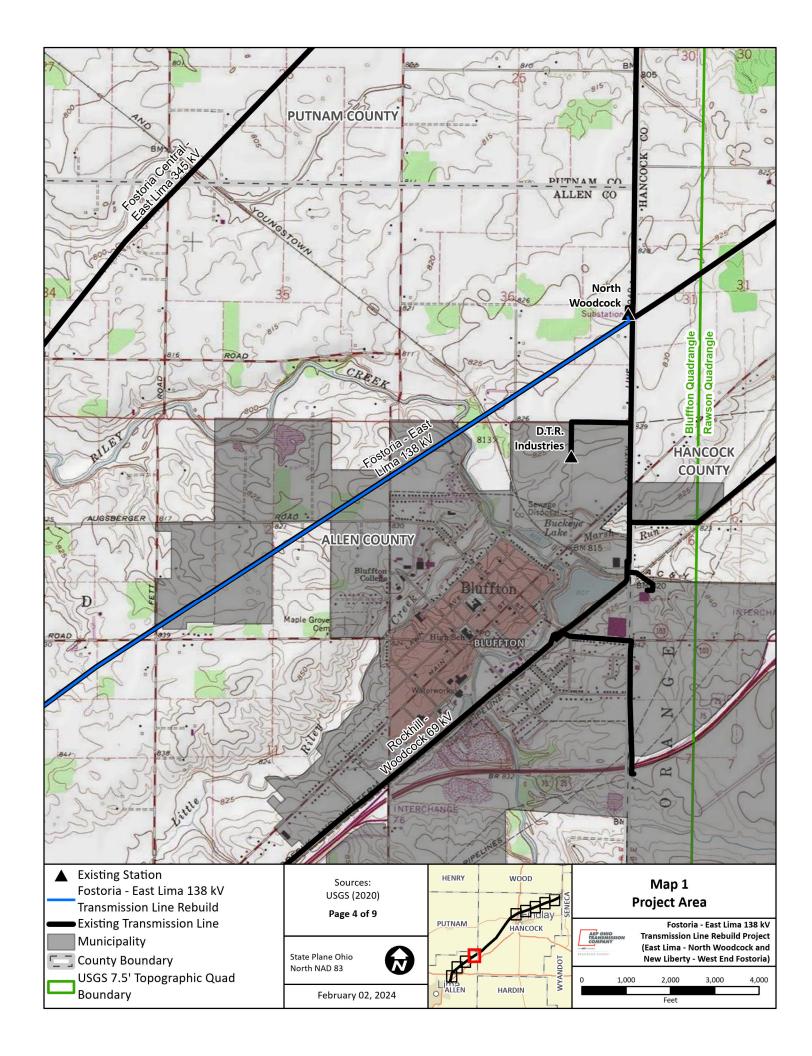
To the best of the Company's knowledge, no unusual conditions exist that would result in significant environmental, social, health, or safety impacts.

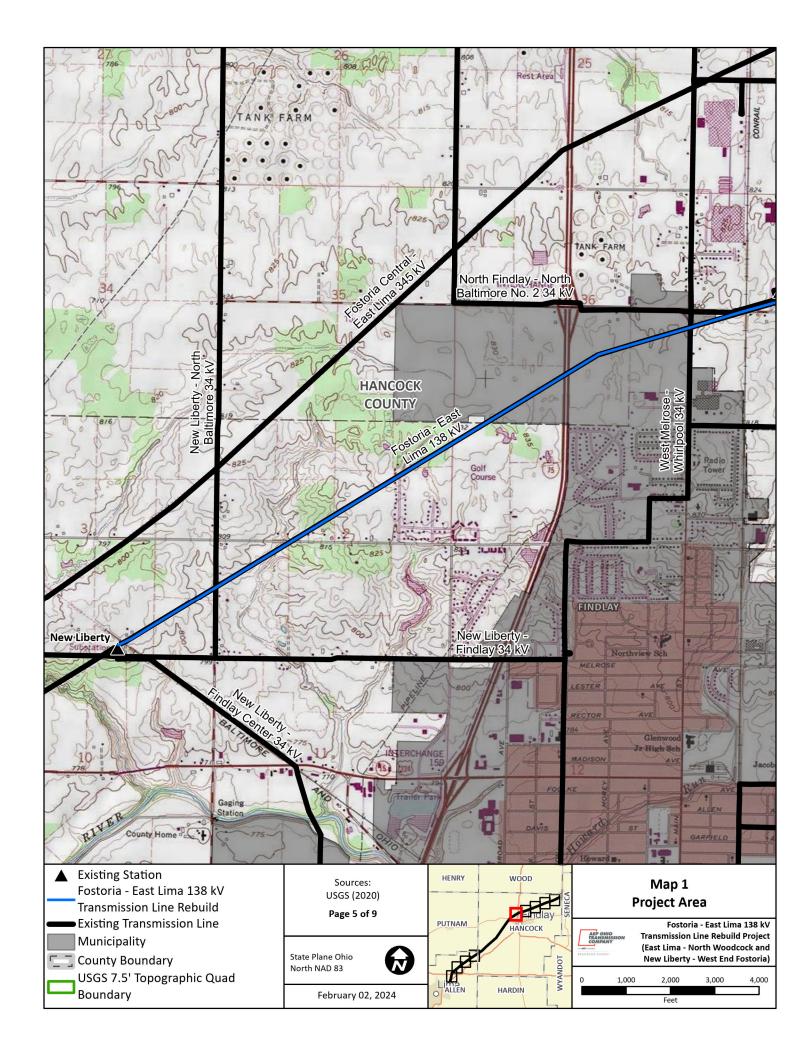
### Appendix A Project Maps

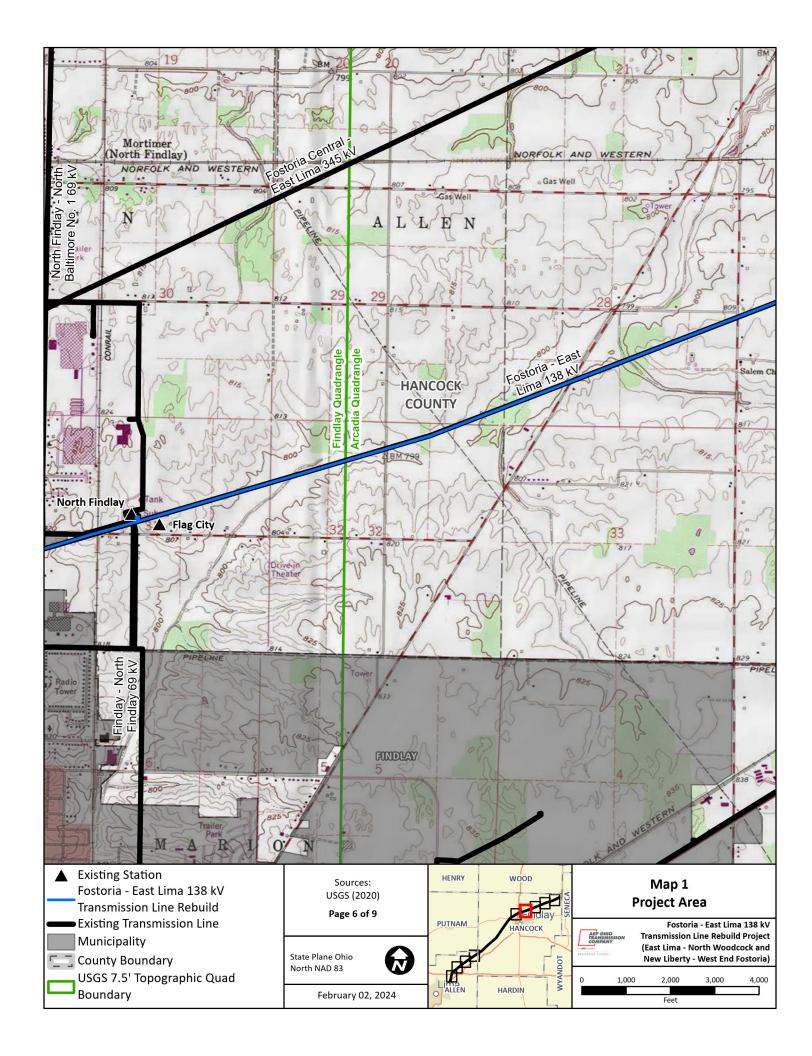


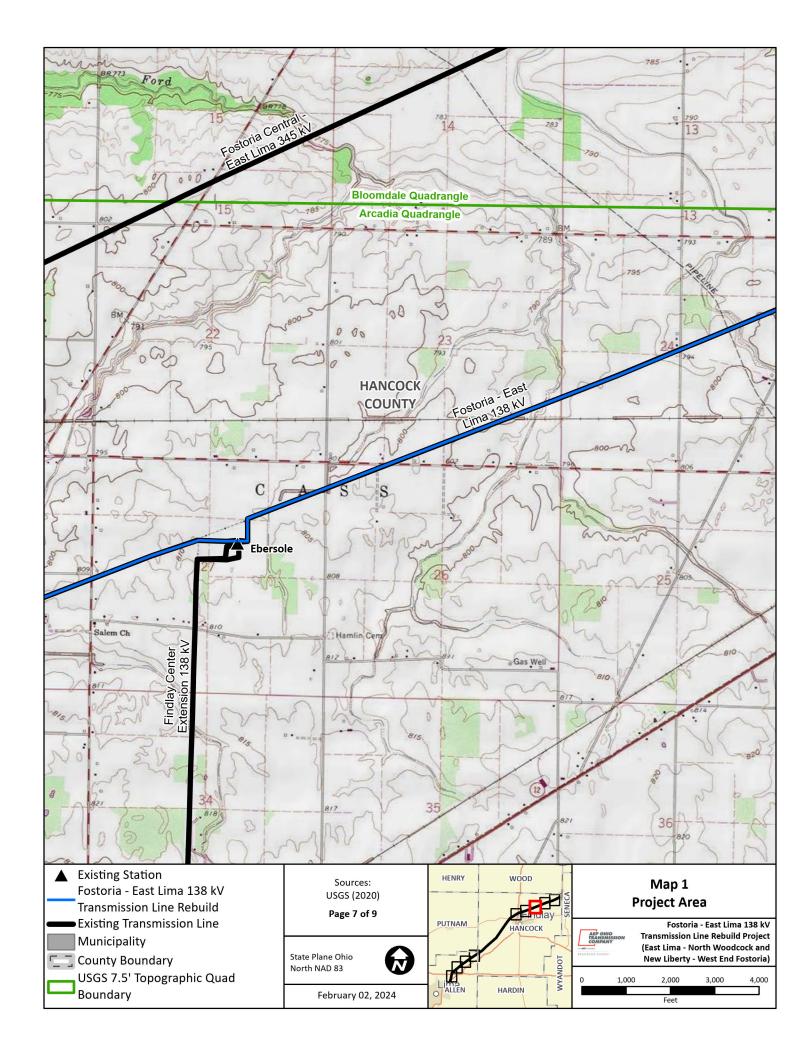


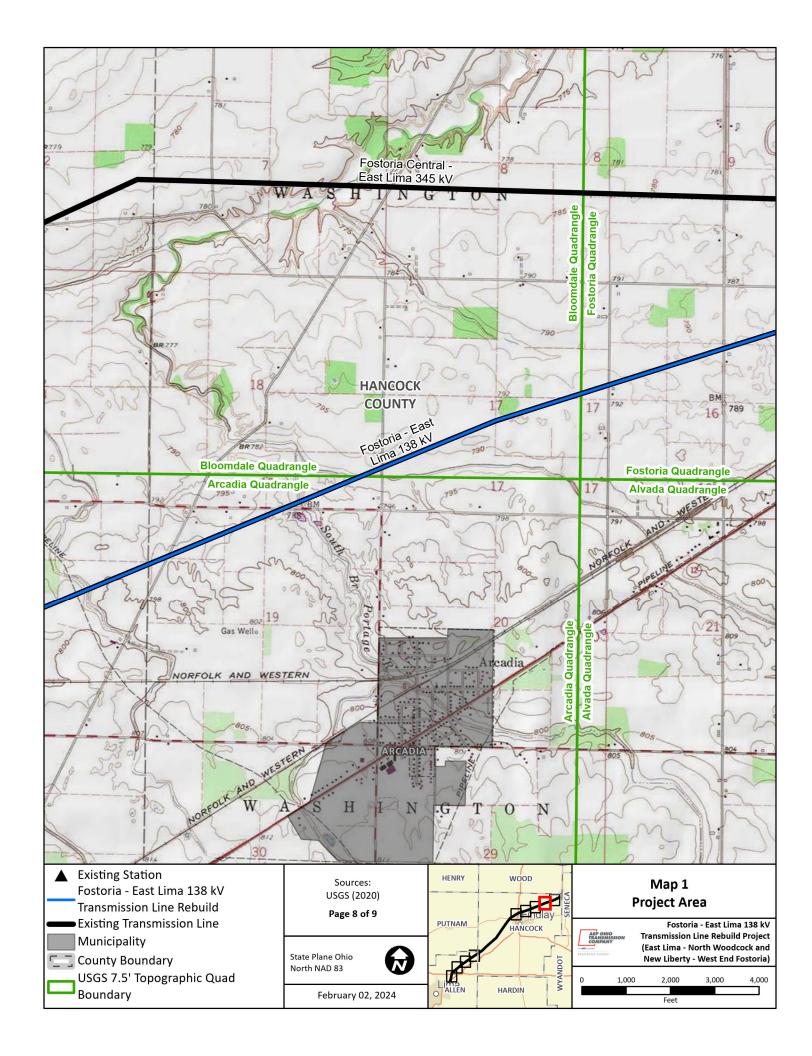


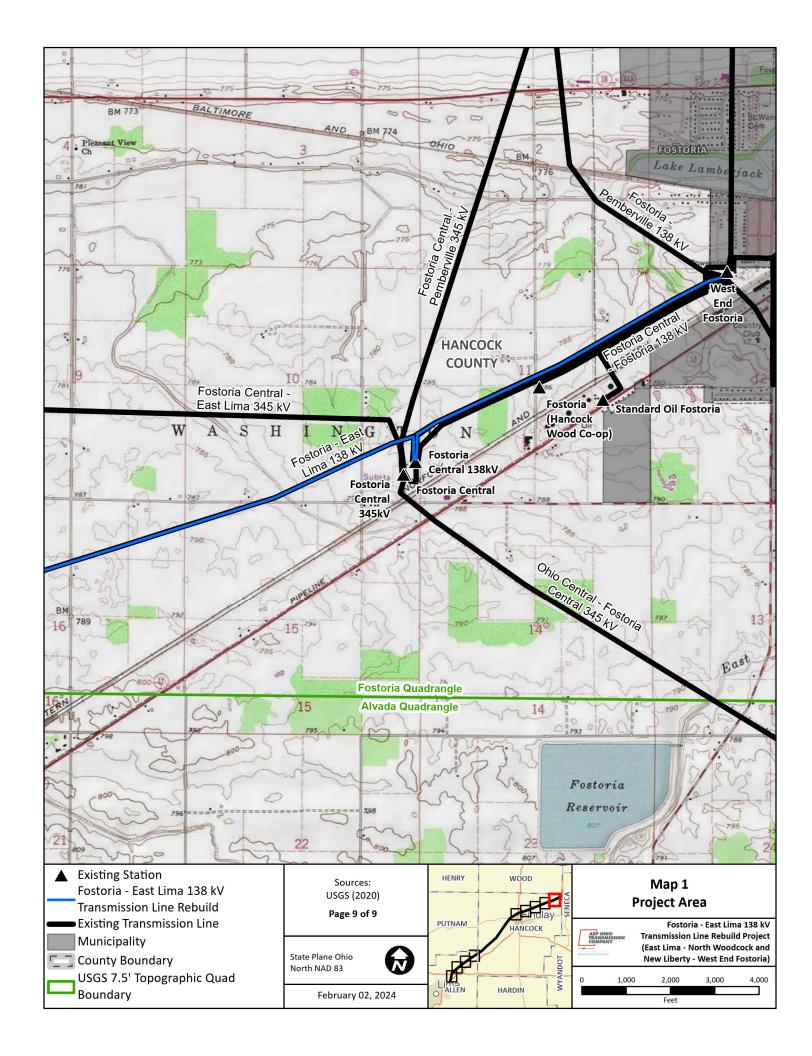


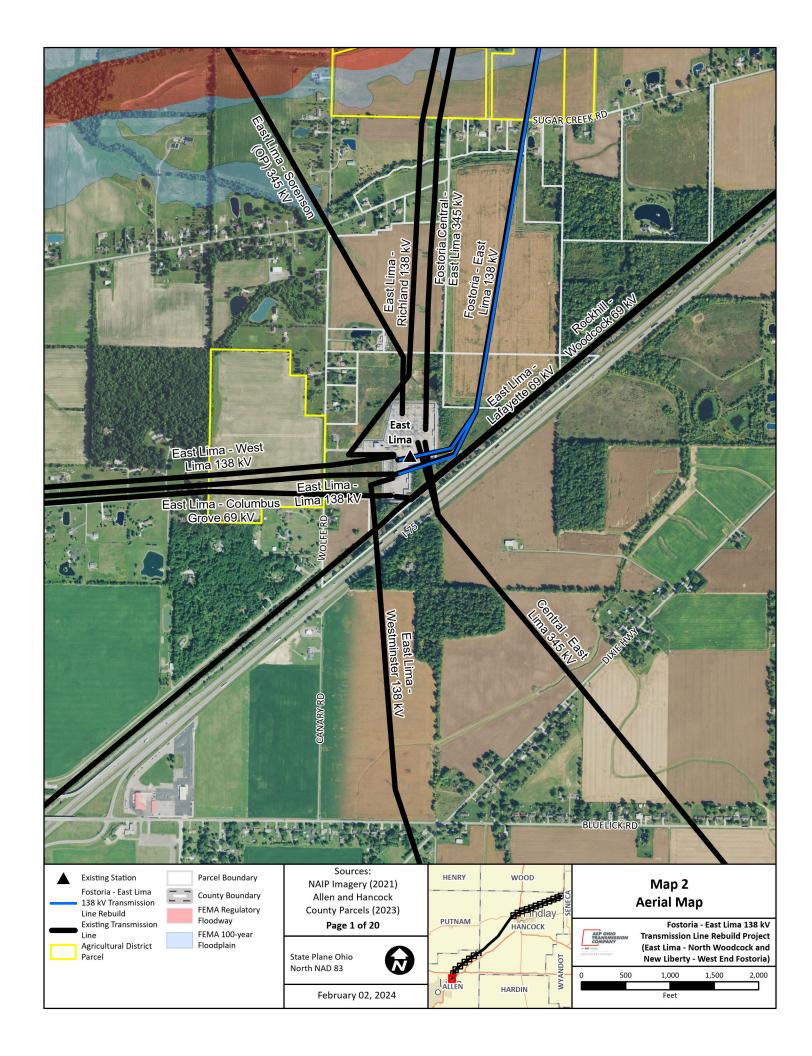


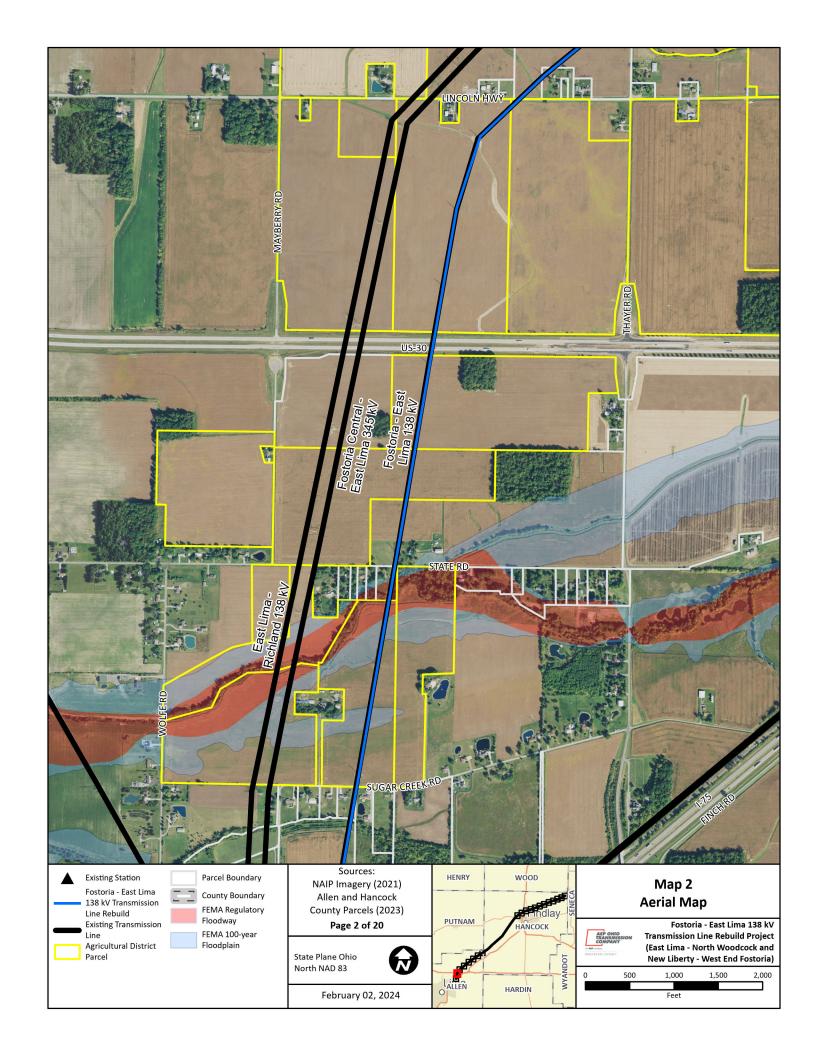


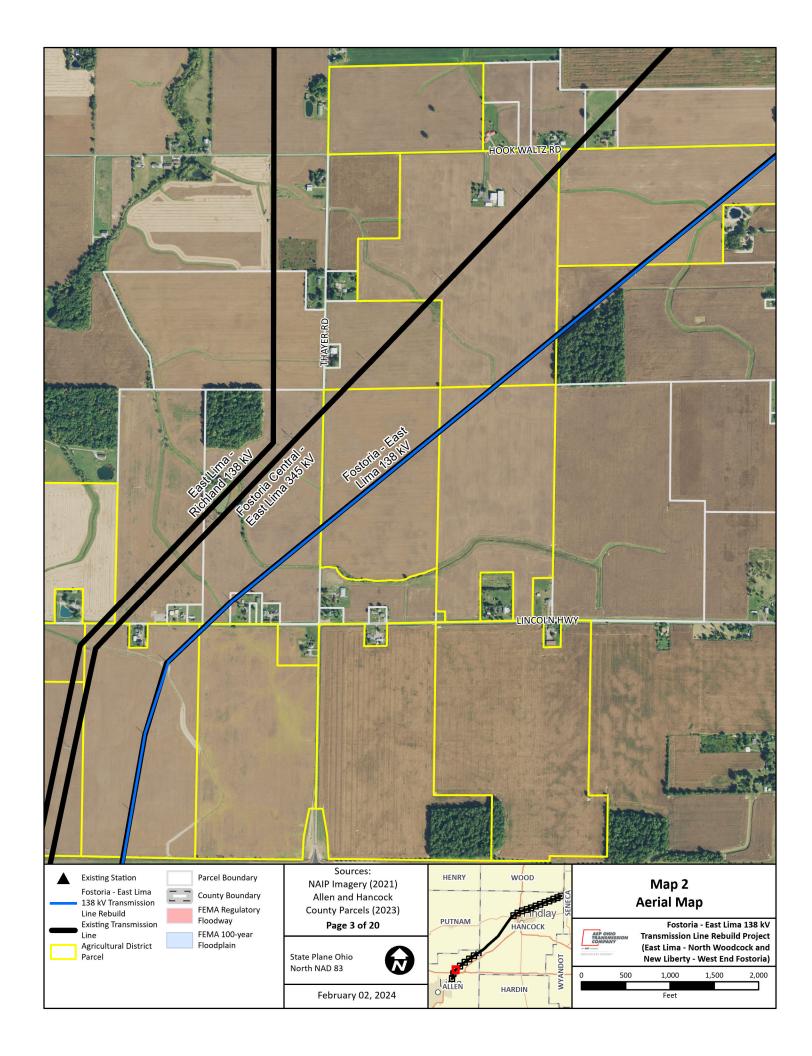


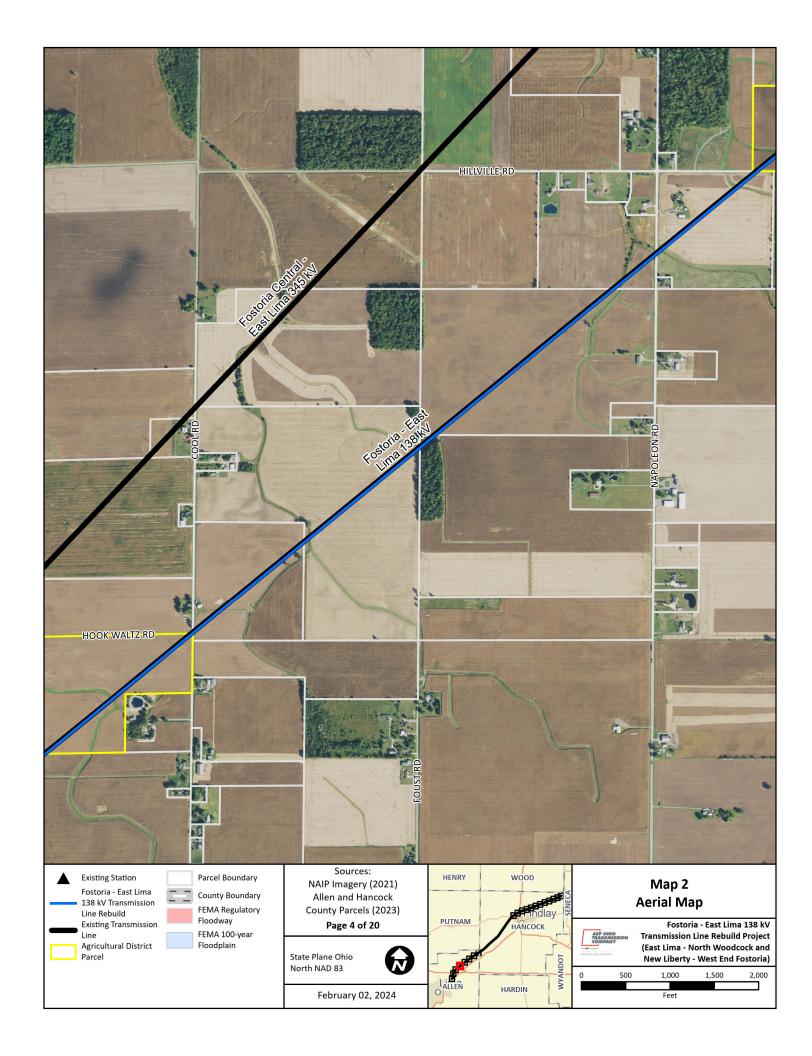


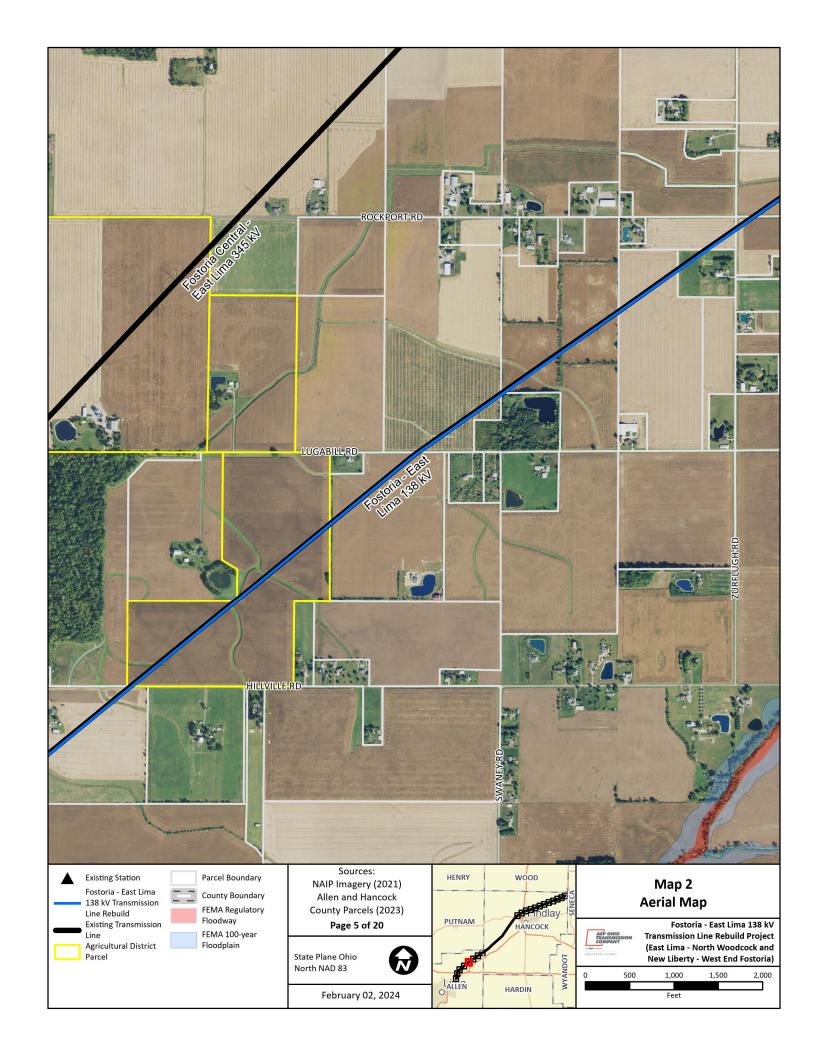


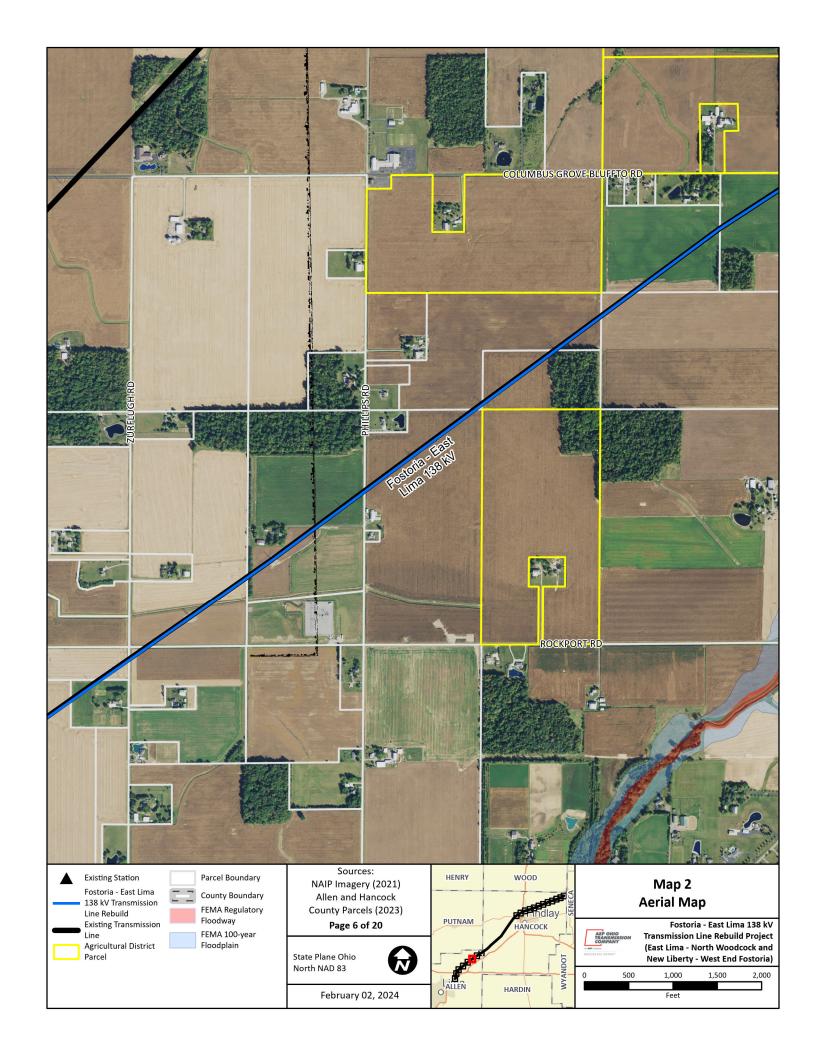


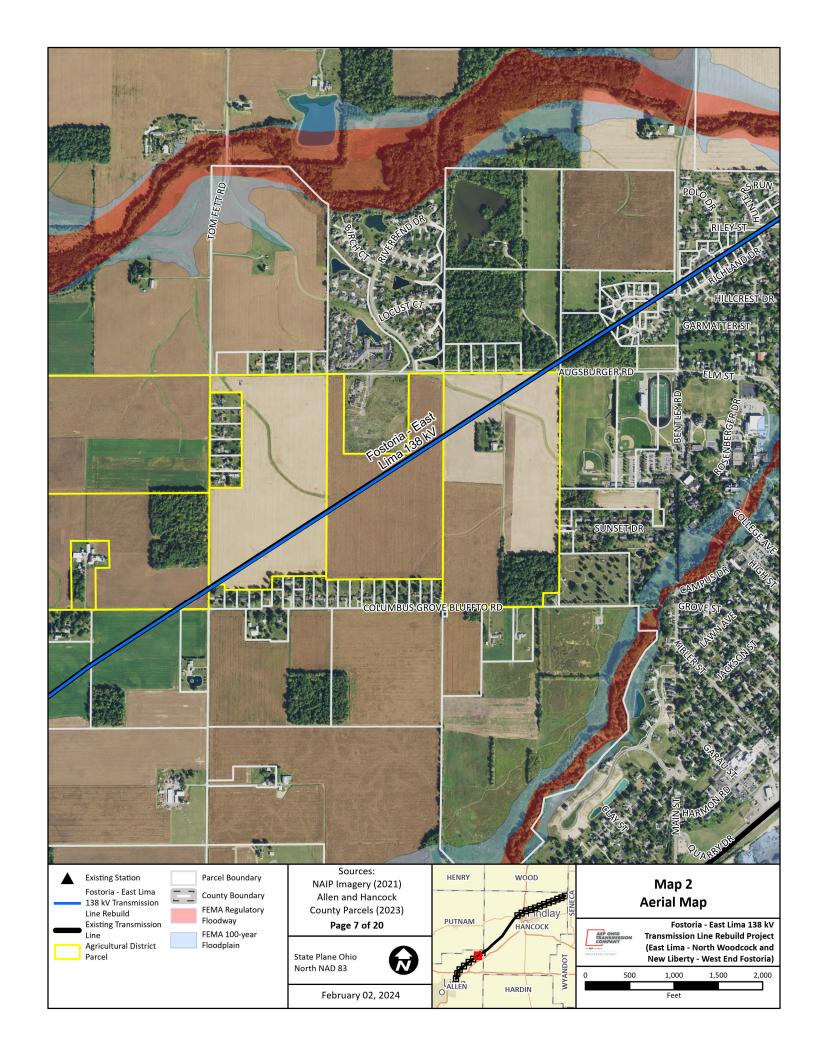


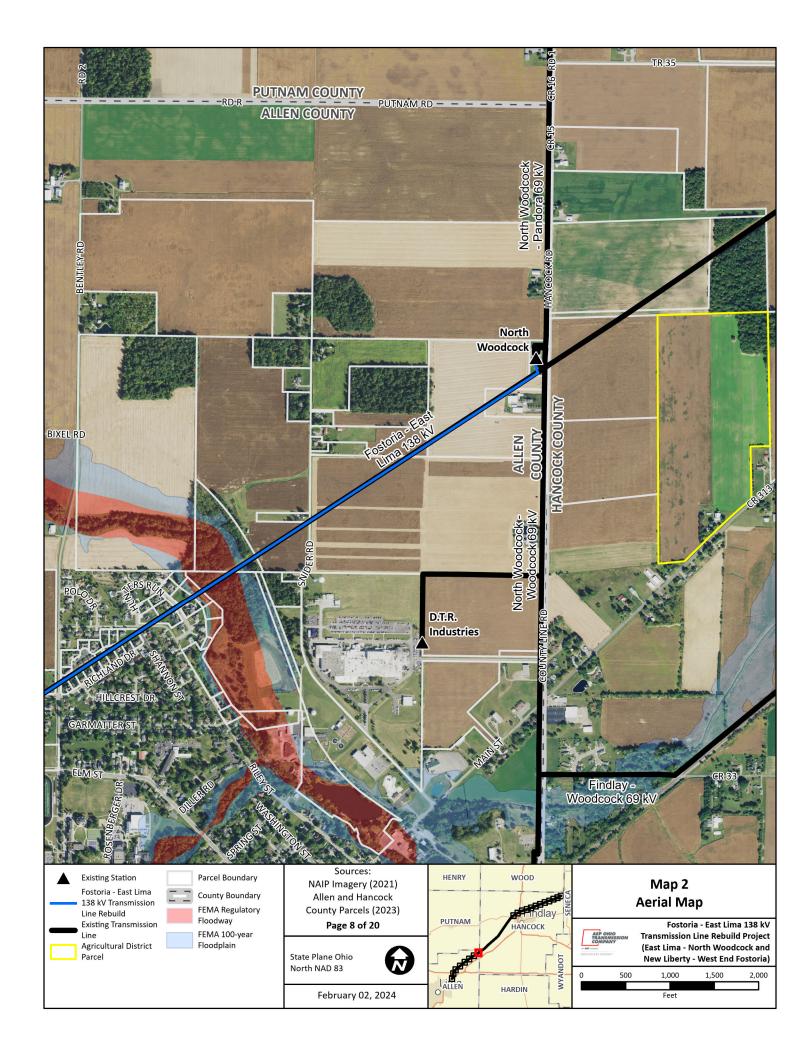


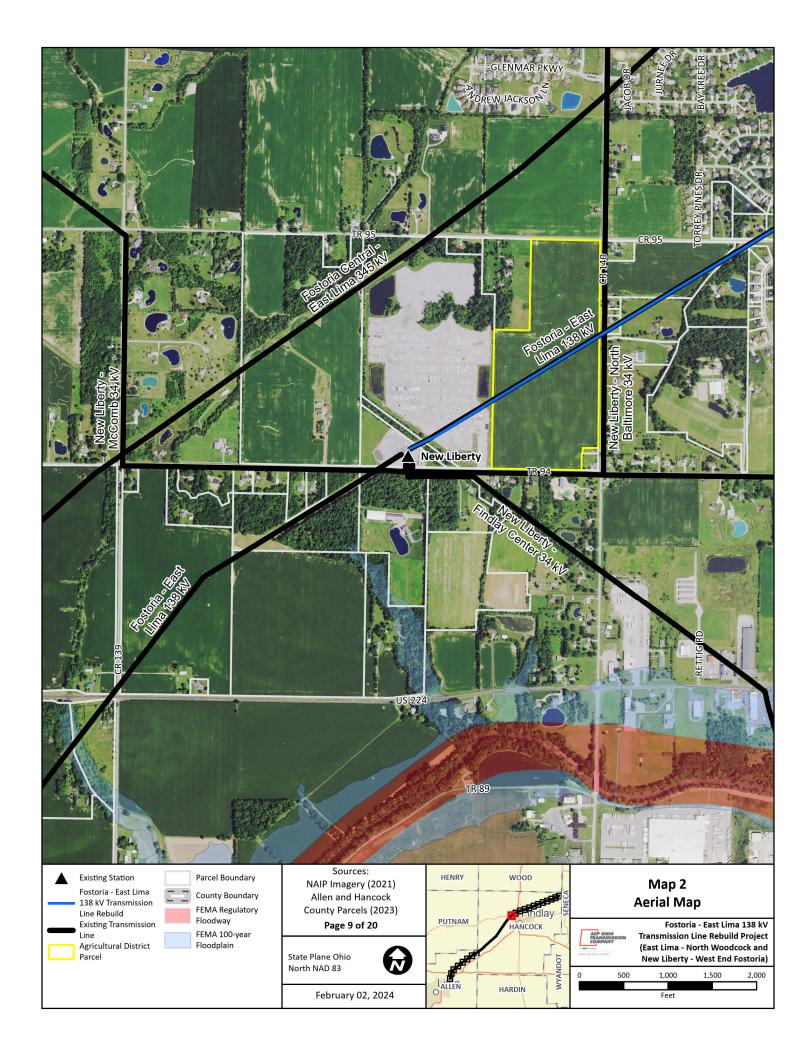


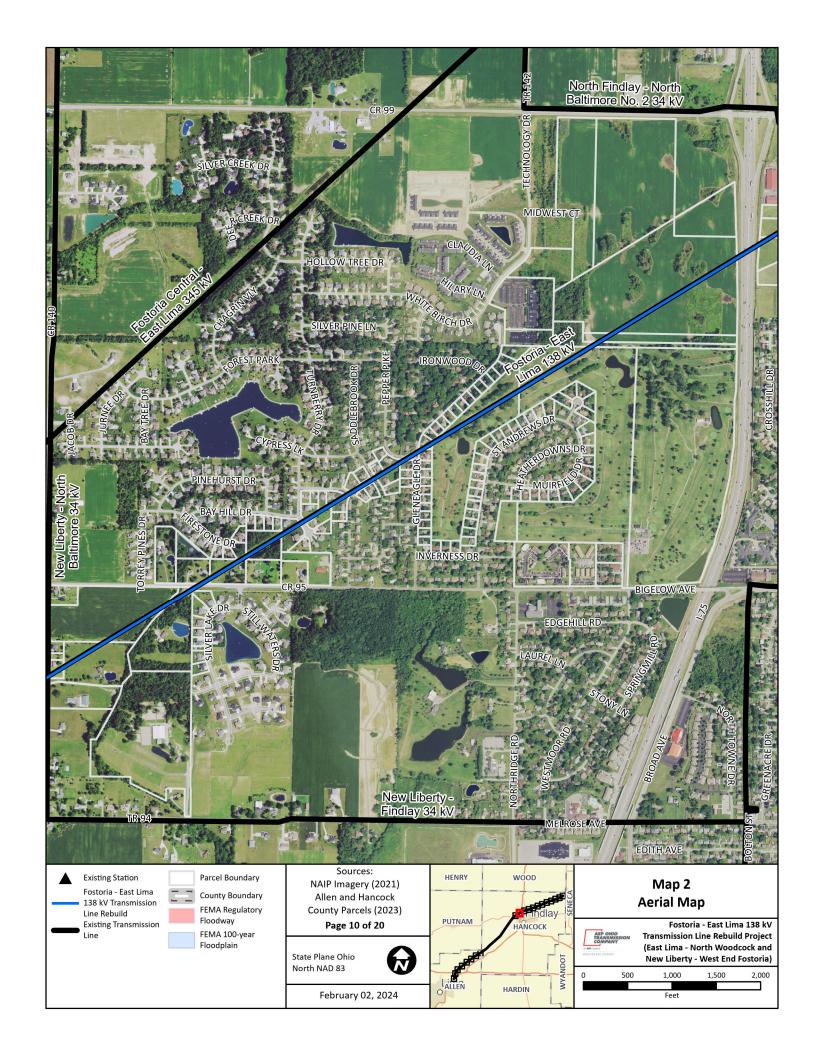


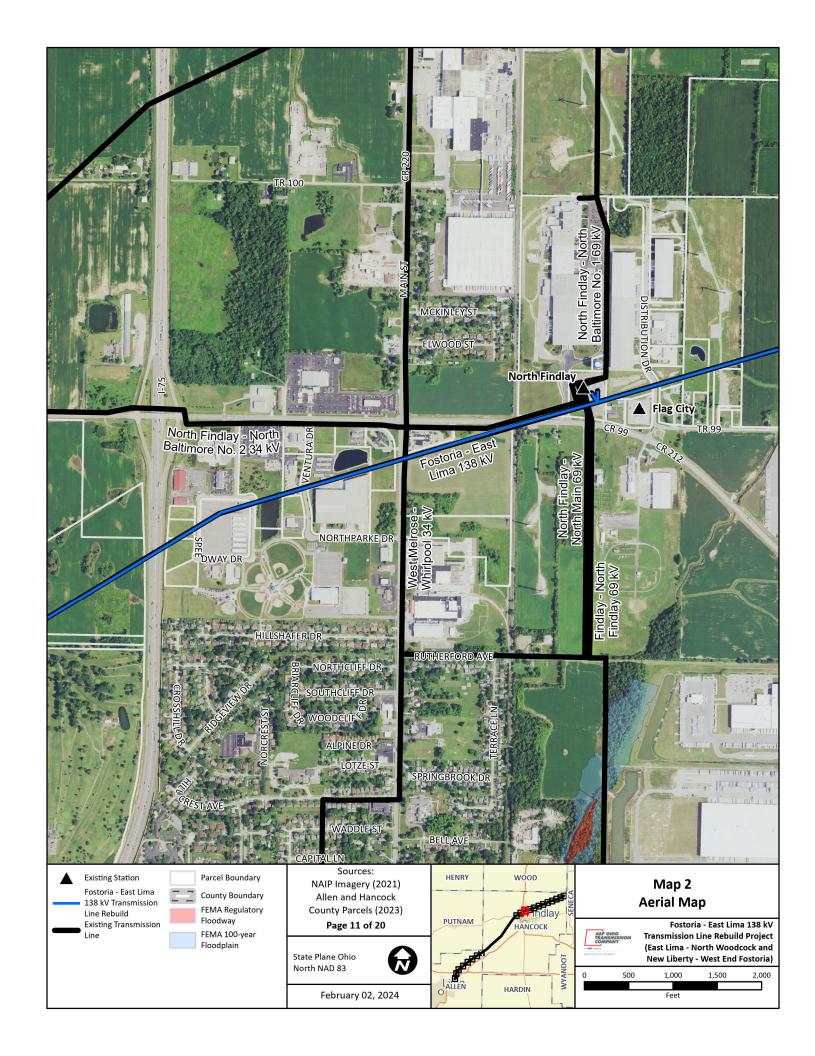


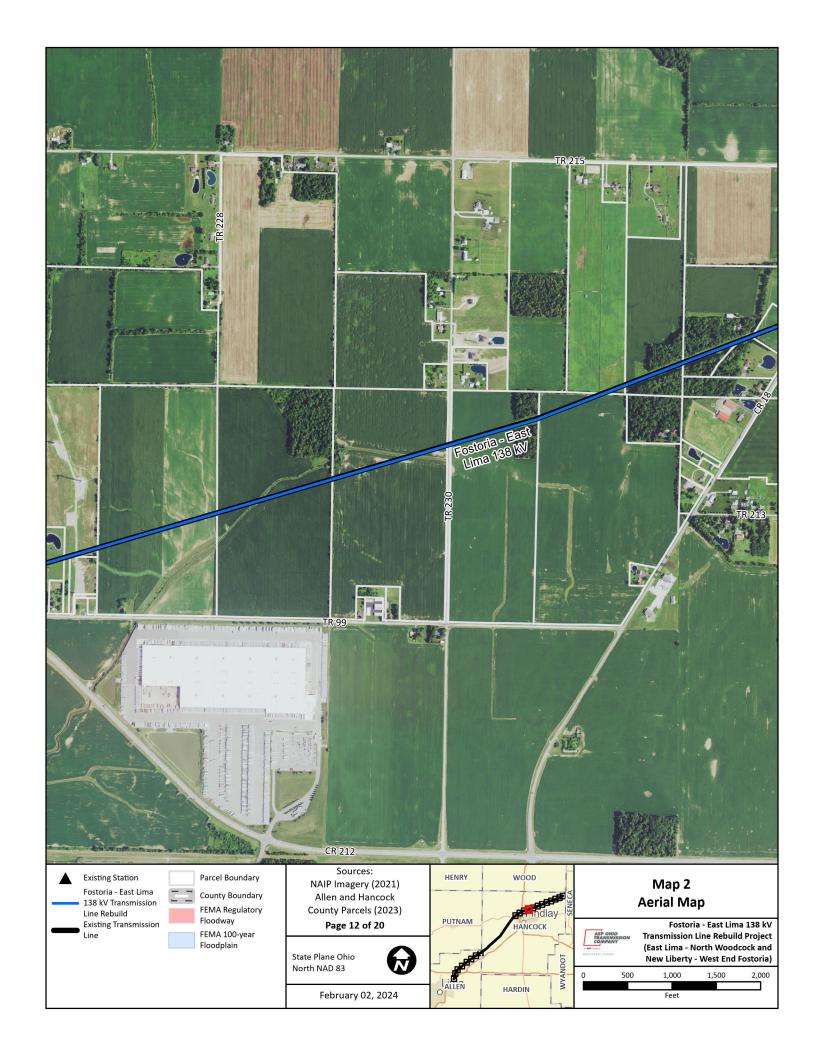


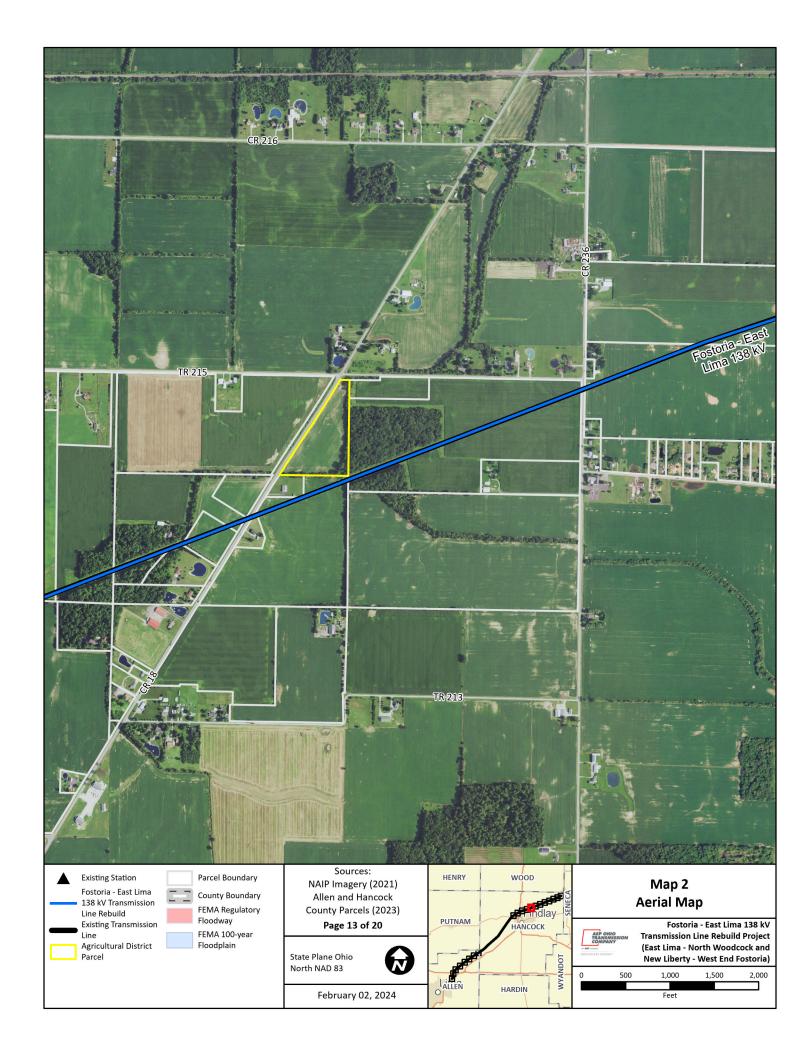


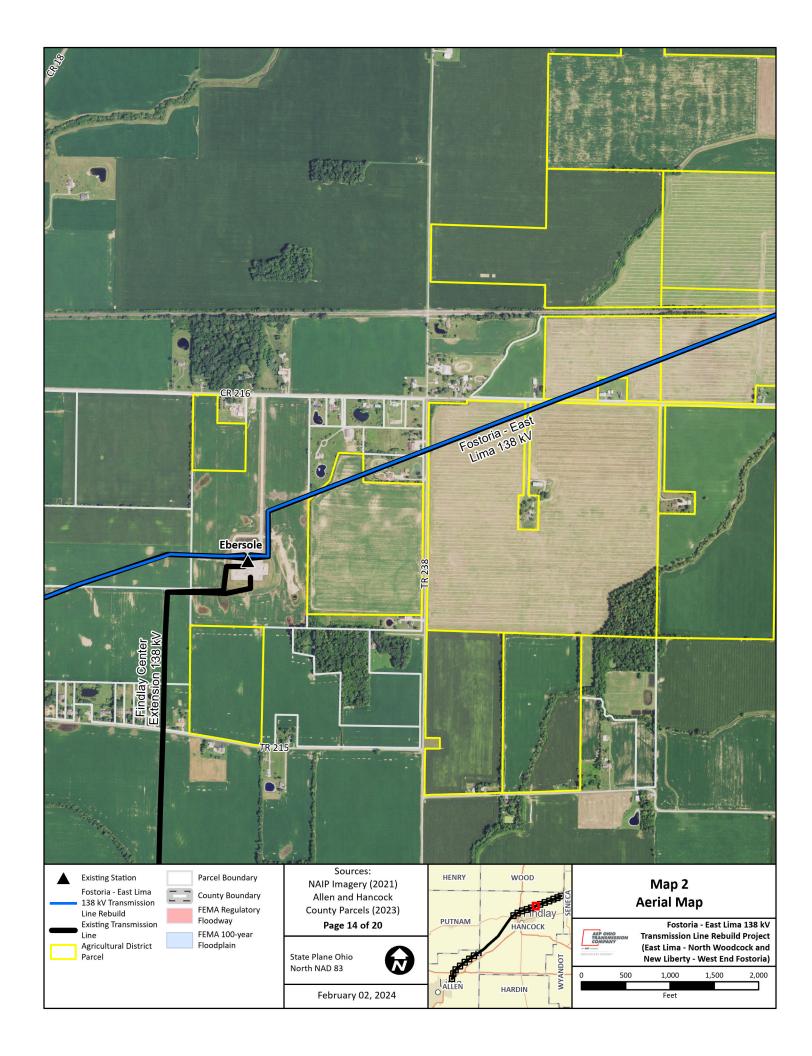


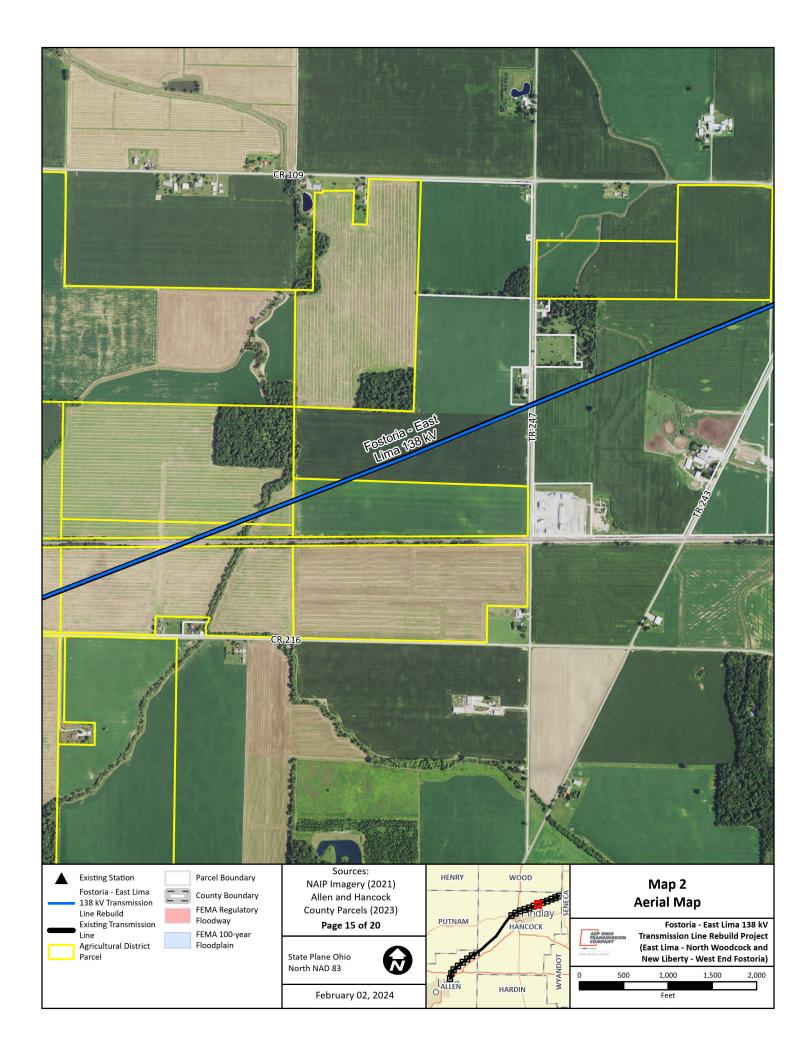


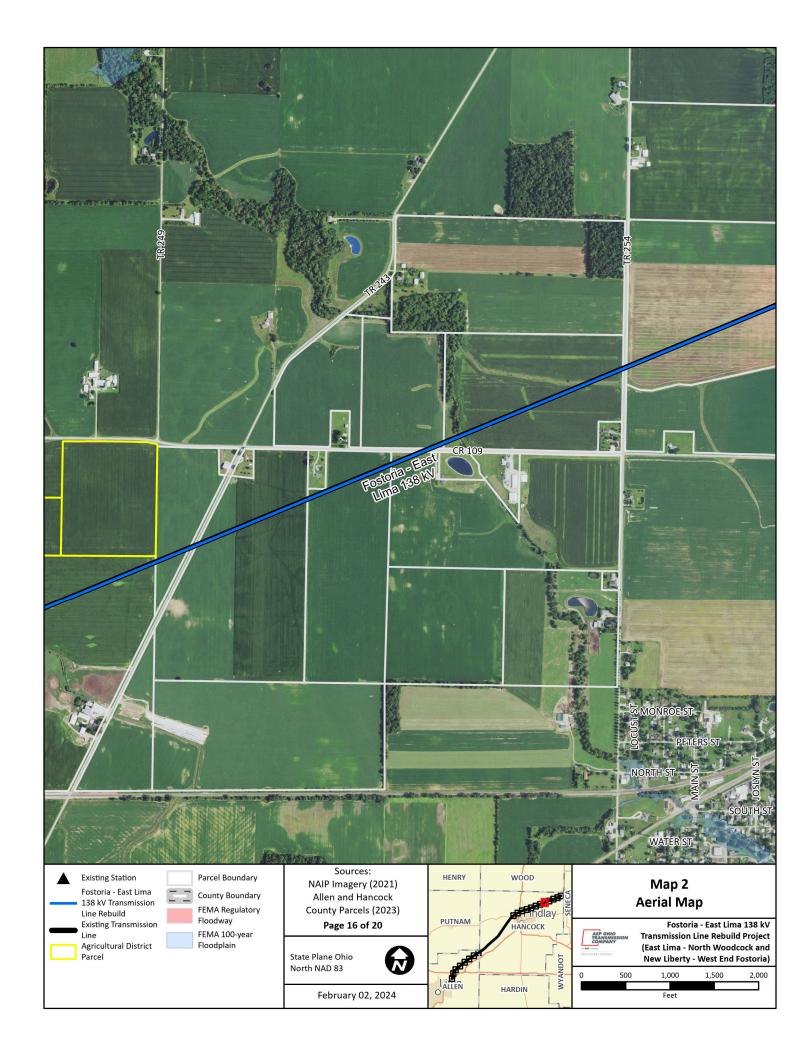


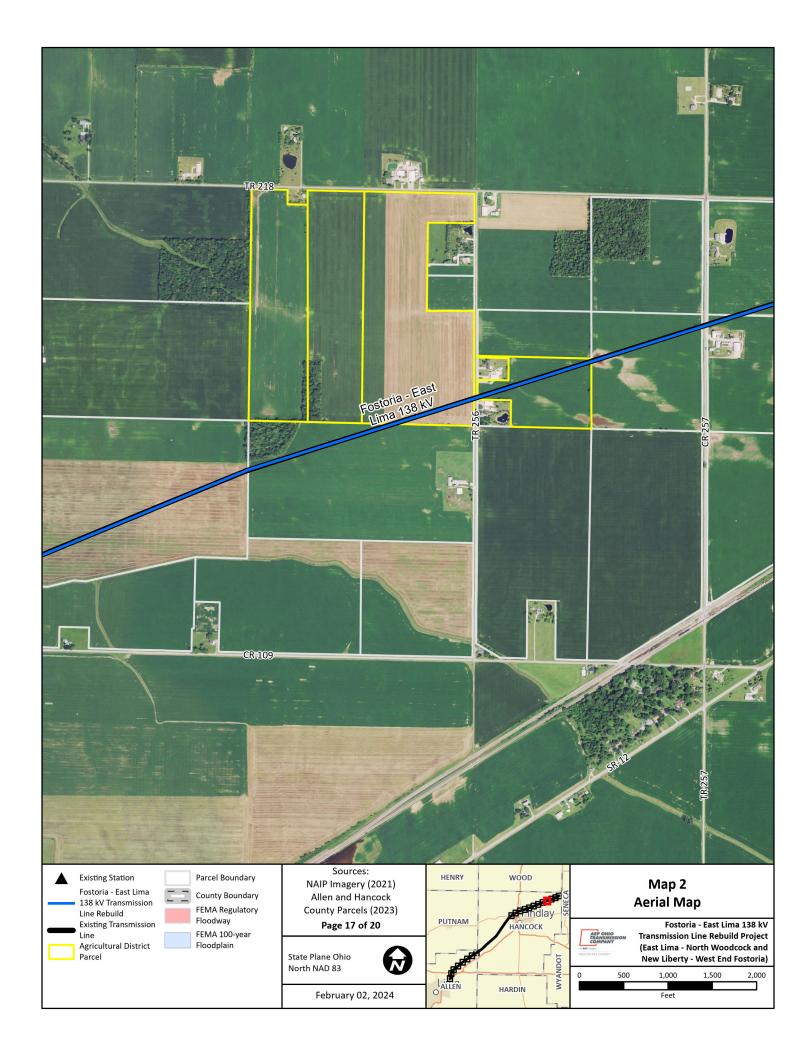


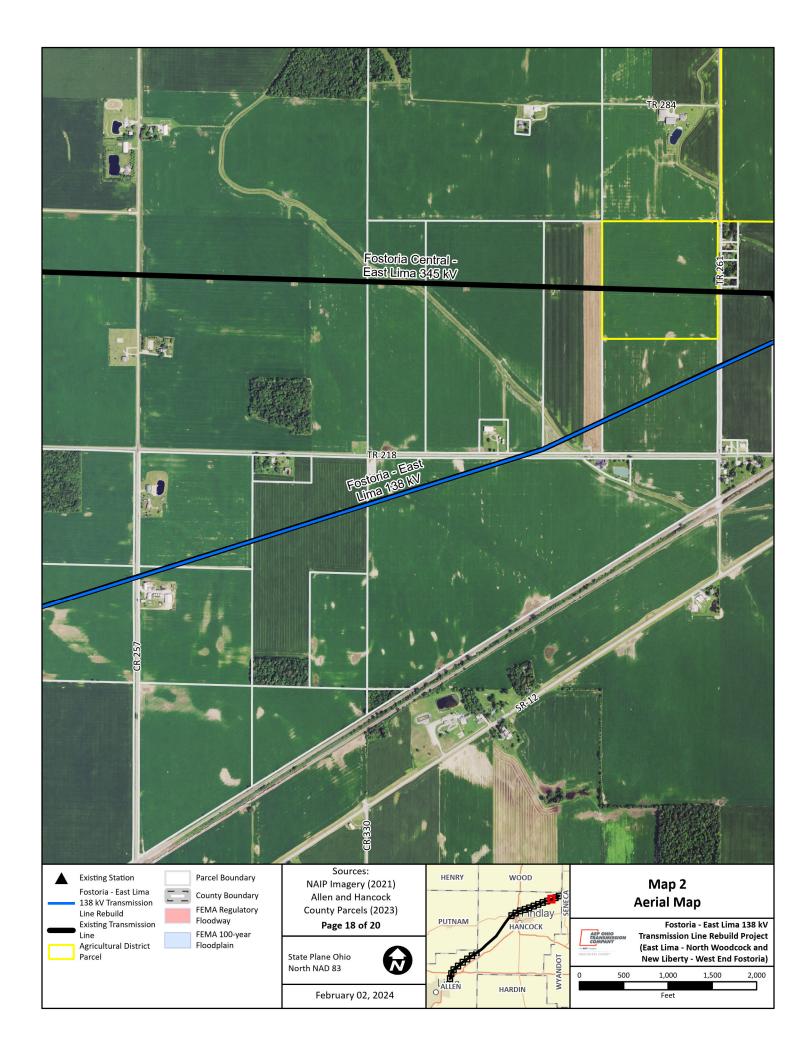


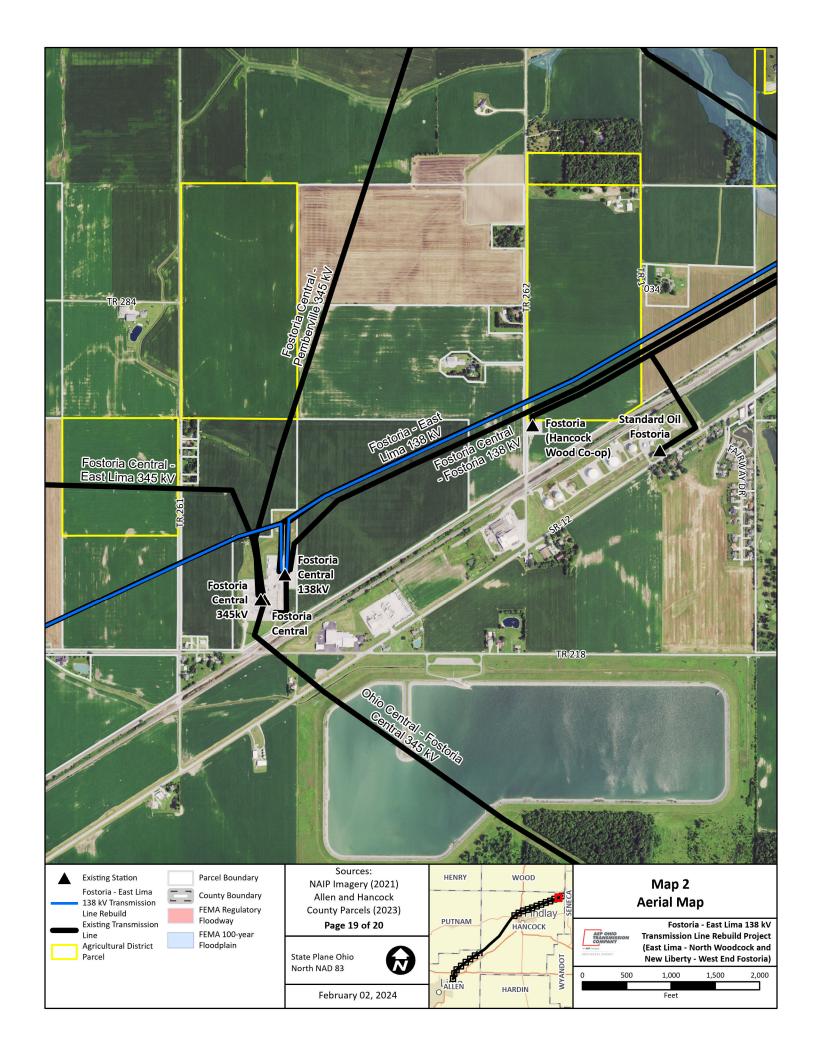


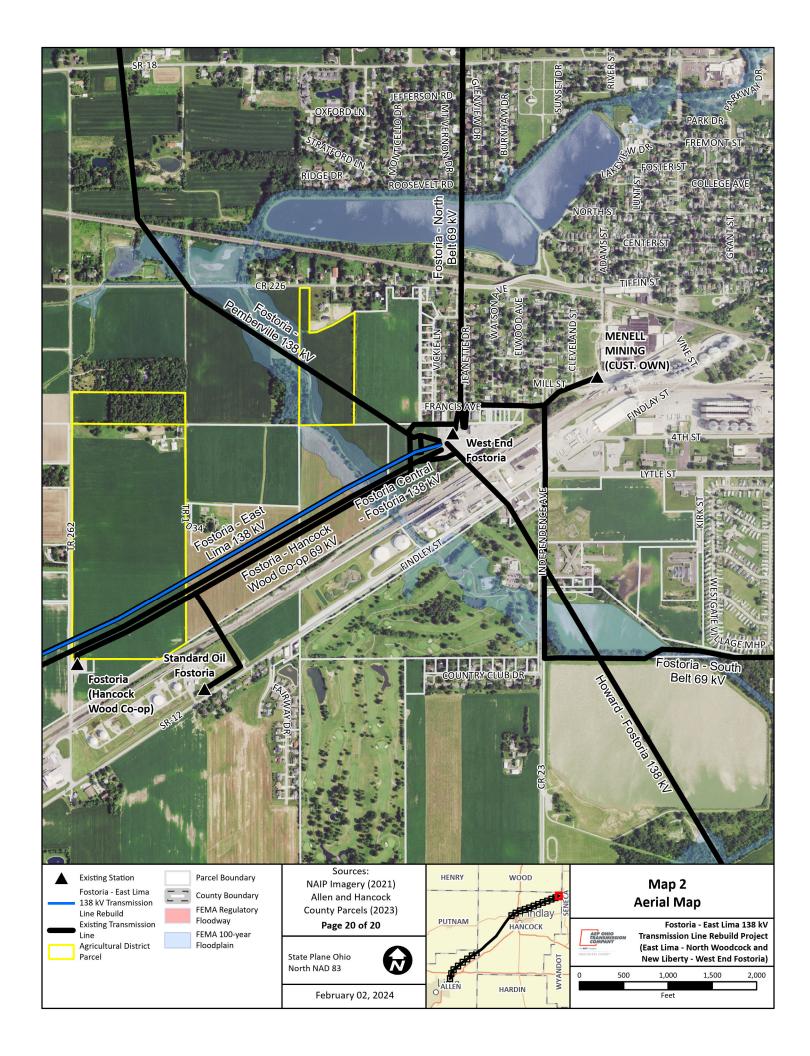












# Appendix B PJM Solution



Need Number: AEP-2021-0H030

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 1/10/2023

#### Previously presented:

Solution Meeting 08/19/2022

Need Meeting 05/21/2021

Project Driver: Equipment Material/Condition/Performance/Risk

Specific Assumption Reference: AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 13), AEP Presentation on Pre-1930s Lines

#### Problem Statement:

Fostoria - East Lima 138kV

Original Construction Date: 1924

· Length: 41.26 miles

Total structure count: 205

 Original Line Construction Type: Double circuit steel lattice towers with vertical insulators.

Conductor Types: 397,500 CM ACSR 30/7 (Lark) & 336,400 CM ACSR 30/7 (Oriole)

 Outage History: Since 2015, there have been 2 permanent outages and 6 momentary outages. The Ebersole – New Liberty Circuit has accounted for 19,640 customer minutes of interruption for 326 distribution customers at the Flag City Substation.

 Condition Summary: Currently, there are 44 structures with at least one open condition, which relates to 22% of the structures on this line.

## AEP Transmission Zone M-3 Process Findlay, OH



AEP Local Plan 2023



Need Number: AEP-2021-OH030

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 1/10/2023

#### Problem Statement (contd.):

Additional Information: Multiple issues are starting to emerge on this line indicating accelerated deterioration phase of its life. Structures inspected either aerially or by ground crews showed heavy visible corrosion on conductors and shield wire, surface rust on towers, insulator end fittings and dampers.

Additional Info on Insulator & Hardware Corrosion:

- Section Loss: The connecting elements including the tower attachment hole and the insulator hook have experienced serious cross-section loss due to corrosion and wear. This loss of metal cross-section significantly reduces the capacity of the connection
- Corrosion: The Insulator caps and connecting hardware have experienced heavy to complete loss of gahvanizing. When the protective galvanized coating is gone or significantly compromised, the bare steel corrodes at an accelerated rate
- Tower members with corrosion and damage. Lattice tower structures have little structural redundancy. A failure of one member of the structure will impact the integrity of the structure and may cause the entire tower to collapse.
- Customer Impact: This double-circuit line provides significant support to the Findlay area 34.5 kV and 69 kV systems via transformers at North Woodcock, New Liberty, North Findlay, and Ebersole and Flag City. Simultaneous outages at both ends of the double-circuit line would likely lead to a major area-wide outage.
- Risk: Significant deterioration results in loss of strength and performance posing a significant risk of failure under conditions the assets should be able to withstand.
  - · May cause frequent and extended outages
  - · May create significant economic losses
  - · May endanger public safety

## AEP Transmission Zone M-3 Process Findlay, OH



AEP Local Plan 2023

11



Need Number: AEP-2021-OHO30

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 1/10/2023

#### Solution:

Fostoria - East Lima 138: The 41.3 mile long line will be rebuilt using double circuit 795
ACSR Drake conductor. OPGW shield wire will be installed. Approximately one mile of line
is being considered for greenfield construction to avoid encroachments and ROW
challenges. The Boutwell, Flag City and Ebersole stations were installed recently, these line
cut-ins will not be rebuilt. Estimated Cost: \$95.9M (s2812.1)

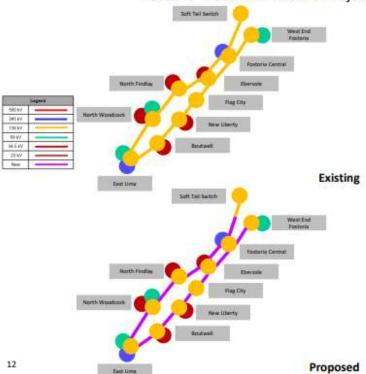
 North Findlay - N Main & North Findlay - Findlay 69kV lines: The North Findlay - N Main and North Findlay - Findlay 69kV lines will be modified for the Fostoria - East Lima 138kV line crossing. Estimated Cost: \$0.08M (s2812.2)

Total Estimated Transmission Cost:\$95.98M

Projected In-Service: 09/15/2026 Supplemental Project ID: s2812.1-.2

Project Status: Scoping

## AEP Transmission Zone M-3 Process Fostoria - East Lima Rebuild Project



# Appendix C Property Agreement Table

| Parcel ID      | Agreement Type                 | Easement Obtained |
|----------------|--------------------------------|-------------------|
| 18360004001000 | Station/AEP Parcels            | N/A               |
| 18360004002000 | Supplemental Existing Easement | No                |
| 18360004002001 | Supplemental Existing Easement | No                |
| 18360004006001 | Supplemental Existing Easement | No                |
| 18360004008000 | Supplemental Existing Easement | No                |
| 10000001000000 | Snider Road                    | 140               |
| 18360003004000 | Supplemental Existing Easement | No                |
| 18360003003002 | Supplemental Existing Easement | No                |
| 18360003003000 | Supplemental Existing Easement | No                |
| 28010002001001 | Supplemental Existing Easement | No                |
| 28010602003000 | Supplemental Existing Easement | No                |
| 28010602004000 | Supplemental Existing Easement | No                |
| 28010602013000 | Supplemental Existing Easement | No                |
| 28010602012000 | Supplemental Existing Easement | No                |
|                | Hunters Run                    |                   |
| 28010603007000 | Supplemental Existing Easement | No                |
| 28010603006000 | Supplemental Existing Easement | No                |
| 28010603004000 | Supplemental Existing Easement | No                |
|                | Riley Street                   |                   |
| 28010601038000 | Supplemental Existing Easement | No                |
|                | Shannon Street                 |                   |
| 28010601049000 | Supplemental Existing Easement | No                |
| 28010601048000 | Supplemental Existing Easement | No                |
| 28010601010000 | Supplemental Existing Easement | No                |
| 28010601009000 | Supplemental Existing Easement | No                |
| 28010601050000 | Supplemental Existing Easement | No                |
| 28010601008000 | Supplemental Existing Easement | No                |
| 28010601051000 | Supplemental Existing Easement | No                |
| 28010601007001 | Supplemental Existing Easement | No                |
| 28010601007000 | Supplemental Existing Easement | No                |
| 28010601001512 | Supplemental Existing Easement | No                |
| 28010601006000 | Supplemental Existing Easement | No                |
| 28010601005000 | Supplemental Existing Easement | No                |
| 28010601004000 | Supplemental Existing Easement | No                |
| 28010601003000 | Supplemental Existing Easement | No                |
| 28010601002000 | Supplemental Existing Easement | No                |
| 28010601001504 | Supplemental Existing Easement | No                |
| Bentley Road   |                                |                   |
| 28020801001000 | Supplemental Existing Easement | No                |
| 28020801002000 | Supplemental Existing Easement | No                |
| Richland Drive |                                |                   |
| 28020801012000 | Supplemental Existing Easement | No                |
| 28020801015000 | Supplemental Existing Easement | No                |

| 28020801016000 | Supplemental Existing Easement | No       |  |
|----------------|--------------------------------|----------|--|
| 28020801011000 | Supplemental Existing Easement | No       |  |
| 28020801010000 | Supplemental Existing Easement | No       |  |
| 28020801017000 | Supplemental Existing Easement | No       |  |
| 28020001008001 | Supplemental Existing Easement | No       |  |
| 28020001007001 | Supplemental Existing Easement | No       |  |
|                | Augsburger Road                |          |  |
| 28020004002000 | Supplemental Existing Easement | No       |  |
| 28020003017000 | Supplemental Existing Easement | No       |  |
| 28020003002000 | Supplemental Existing Easement | No       |  |
| 28020003002007 | Supplemental Existing Easement | No       |  |
| 28020003004000 | Supplemental Existing Easement | No       |  |
| 20020000001000 | Tom Fett Road                  | 140      |  |
| 28030004001000 | Supplemental Existing Easement | No       |  |
| 28030004001000 | Columbus Grove Bluffton R      |          |  |
| 28100001001000 |                                |          |  |
| 28100001001000 | Supplemental Existing Easement | No<br>No |  |
| 28100001002000 | Supplemental Existing Easement | No<br>No |  |
|                | Supplemental Existing Easement | No       |  |
| 28100001005000 | Supplemental Existing Easement | No       |  |
| 28100002003000 | Supplemental Existing Easement | No       |  |
| 28100003001000 | Supplemental Existing Easement | No       |  |
| 28100003002000 | Supplemental Existing Easement | No       |  |
|                | Phillips Road                  |          |  |
| 28090004001000 | Supplemental Existing Easement | No       |  |
| 28090004002000 | Supplemental Existing Easement | No       |  |
|                | Rockport Road                  |          |  |
| 28160001002000 | Supplemental Existing Easement | No       |  |
|                | Zurflugh Road                  |          |  |
| 28160002006000 | Supplemental Existing Easement | No       |  |
| 28160002001000 | Supplemental Existing Easement | No       |  |
| 28160002006001 | Supplemental Existing Easement | No       |  |
| 28160002002000 | Supplemental Existing Easement | No       |  |
| 28160002003000 | Supplemental Existing Easement | No       |  |
| 28170001001000 | Supplemental Existing Easement | No       |  |
|                | Lugabill Road                  |          |  |
| 28170004002000 | Supplemental Existing Easement | No       |  |
| 28170003001003 | OFFLINE                        | N/A      |  |
| 28170003001002 | Supplemental Existing Easement | No       |  |
| 28170003001000 | Supplemental Existing Easement | No       |  |
| 28170003001001 | Supplemental Existing Easement | No       |  |
|                | Hillville Road                 |          |  |
| 28200002003000 | Supplemental Existing Easement | No       |  |
|                | Napoleon Road                  |          |  |
| 28190001001000 | Supplemental Existing Easement | No       |  |
| 28190001003000 | Supplemental Existing Easement | No       |  |
| 28190004002001 | Supplemental Existing Easement | No       |  |
| 28190003001000 | Supplemental Existing Easement | No       |  |
| 2013003001000  | Supplemental Existing Lasement | INO      |  |

| 28190003002000               | Complemental Evisting Forest                                  | Nie      |
|------------------------------|---|----------|
| 28190003002000               | Supplemental Existing Easement  Cool Road                     | No       |
| 27240004004000               |   | No       |
| 27240004004000               | Supplemental Existing Easement Hook Waltz Rd E                | NO       |
| 27250001002000               |   | No       |
| 27250001002000               | Supplemental Existing Easement Supplemental Existing Easement | No       |
| 27250001003001               | Supplemental Existing Easement                                | No       |
| 27250002001000               | Supplemental Existing Easement                                | No       |
| 27250003001000               | Supplemental Existing Easement                                | No       |
| 27230003002000               | Thayer Road   | 140      |
| 27260004001001               | Supplemental Existing Easement                                | No       |
| 27260004001000               | Supplemental Existing Easement                                | No       |
| 27260004004000               | Supplemental Existing Easement                                | No       |
|                              | Lincoln Highway   |          |
| 27350001004000               | Supplemental Existing Easement                                | No       |
| 27350001003000               | Supplemental Existing Easement                                | No       |
|                              | US Highway 30   |          |
| 27350004001000               | Supplemental Existing Easement                                | No       |
| 27350003013000               | Supplemental Existing Easement                                | No       |
| 27350004002000               | Supplemental Existing Easement                                | No       |
|                              | E State Road  |          |
| 37020001013000               | Supplemental Existing Easement                                | No       |
| 37020002001000               | Supplemental Existing Easement                                | No       |
| 37020002006000               | Supplemental Existing Easement                                | No       |
|                              | Sugar Creek Road  |          |
| 37020003002001               | Supplemental Existing Easement                                | No       |
| 37020003002002               | Supplemental Existing Easement                                | No       |
| 37020003002000               | Supplemental Existing Easement                                | No       |
| 37110002001000               | Supplemental Existing Easement                                | No<br>No |
| 37110002002000               | Station/AEP Parcels   | N/A      |
| 150001025977<br>150000031650 | Station/AEP Parcels   | N/A      |
| 150000031630                 | Supplemental Existing Easement Supplemental Existing Easement | No       |
| 130000031010                 | County Road 236   | No       |
| 150001009951                 | Supplemental Existing Easement                                | No       |
| 150001005531                 | Supplemental Existing Easement                                | No       |
| 15000102587                  | Supplemental Existing Easement                                | No       |
| 150001025886                 | Supplemental Existing Easement                                | No       |
| 15000102360                  | Supplemental Existing Easement                                | No       |
| County Road 18               |   |          |
| 150001004475                 | Supplemental Existing Easement                                | No       |
| 150001004476                 | Supplemental Existing Easement                                | No       |
| 150001004474                 | Supplemental Existing Easement                                | No       |
| 150001003172                 | Supplemental Existing Easement                                | Yes      |
| 020001029406                 | Supplemental Existing Easement                                | No       |
| 020001028973                 | Supplemental Existing Easement                                | No       |
| 020001030161                 | Supplemental Existing Easement                                | No       |

| 020000005090 | Supplemental Existing Easement | No  |
|--------------|--------------------------------|-----|
|              | Township Road 230              |     |
| 020000005030 | Supplemental Existing Easement | No  |
| 020000005070 | Supplemental Existing Easement | No  |
| 020000004840 | Supplemental Existing Easement | No  |
| 020001011628 | Supplemental Existing Easement | No  |
| 020001002940 | Supplemental Existing Easement | No  |
| 020001004955 | Supplemental Existing Easement | No  |
| 020001030954 | Supplemental Existing Easement | Yes |
|              | Distribution Drive             |     |
| 020001030613 | Supplemental Existing Easement | Yes |
| 020001030953 | Station/AEP Parcels            | N/A |
| 020001013860 | Supplemental Existing Easement | No  |
| 020001013872 | Station/AEP Parcels            | N/A |
| 020001013987 | Supplemental Existing Easement | No  |
|              | County Road 99                 |     |
| 020001013856 | Supplemental Existing Easement | No  |
|              | Conrail                        |     |
| 020001013858 | Supplemental Existing Easement | No  |
| 020001016184 | Supplemental Existing Easement | No  |
| 630001021803 | Supplemental Existing Easement | No  |
|              | North Mail Street              |     |
| 630001006677 | Supplemental Existing Easement | Yes |
| 630001006678 | Supplemental Existing Easement | No  |
| 230001033244 | Supplemental Existing Easement | Yes |
| 630001017367 | Supplemental Existing Easement | No  |
|              | Ventura Drive                  |     |
| 230001028822 | Supplemental Existing Easement | Yes |
| 230001028821 | Supplemental Existing Easement | Yes |
| 230001030065 | Supplemental Existing Easement | No  |
| 630001025318 | Supplemental Existing Easement | No  |
|              | Marathon Way                   |     |
| 230001032116 | Supplemental Existing Easement | No  |
|              | Speedway Dr                    |     |
| 630001018988 | Supplemental Existing Easement | Yes |
| 630001018989 | Supplemental Existing Easement | No  |
|              | Interstate 75                  |     |
| 230001031528 | Supplemental Existing Easement | Yes |
| 690001021914 | Supplemental Existing Easement | No  |
| 020001025344 | Supplemental Existing Easement | Yes |
| 020001025148 | Supplemental Existing Easement | No  |
| 280000055250 | Supplemental Existing Easement | No  |
| 280000055330 | Supplemental Existing Easement | No  |
| 280000062710 | Supplemental Existing Easement | No  |
| 280001005685 | Supplemental Existing Easement | Yes |
| 280001005683 | Supplemental Existing Easement | No  |
| 280000062680 | Supplemental Existing Easement | No  |
|              |                                |     |

|                              | Gleneagle Drive   |          |
|------------------------------|---|----------|
| 280000063200                 | Supplemental Existing Easement                                | Yes      |
|                              | Pepper Pike   |          |
| 280000063210                 | Supplemental Existing Easement                                | No       |
| 280001004799                 | Supplemental Existing Easement                                | No       |
| 280001006314                 | Supplemental Existing Easement                                | No       |
| 280001006352                 | Supplemental Existing Easement                                | No       |
|                              | Saddlebrook Drive   |          |
| 280001006354                 | Supplemental Existing Easement                                | No       |
| 280001006351                 | Supplemental Existing Easement                                | No       |
| 280001006350                 | Supplemental Existing Easement                                | Yes      |
| 280001006353                 | Supplemental Existing Easement                                | Yes      |
|                              | Innisbrook Drive  |          |
|                              | Brook Lawn Drive  |          |
| 280001006336                 | Supplemental Existing Easement                                | No       |
| 280001011270                 | Supplemental Existing Easement                                | No       |
| 280001017414                 | Supplemental Existing Easement                                | No       |
| 280001011271                 | Supplemental Existing Easement                                | Yes      |
| 280001017413                 | Supplemental Existing Easement                                | No       |
| 280001017419                 | Turnberry Drive   | No       |
| 280001017419                 | Supplemental Existing Easement                                | No<br>No |
| 280001017420                 | Supplemental Existing Easement                                | No<br>No |
| 280001017421                 | Supplemental Existing Easement Supplemental Existing Easement | No       |
| 280000055380                 | Supplemental Existing Easement                                | No       |
| 280001017433                 | Supplemental Existing Easement                                | No       |
| 280000055520                 | Supplemental Existing Easement                                | No       |
| 280001017434                 | Supplemental Existing Easement                                | No       |
| 280000055450                 | Supplemental Existing Easement                                | No       |
|                              | County Road 95  |          |
| 280001025739                 | Supplemental Existing Easement                                | No       |
| 280001025740                 | Supplemental Existing Easement                                | No       |
| 280000055630                 | Supplemental Existing Easement                                | No       |
| 280001016686                 | Supplemental Existing Easement                                | No       |
| 280001002011                 | Supplemental Existing Easement                                | No       |
| 280000055480                 | Supplemental Existing Easement                                | No       |
|                              | County Road 140   |          |
| 280001028413                 | Supplemental Existing Easement                                | No       |
| 280001029878                 | Station/AEP Parcels   | N/A      |
| 280001001199                 | Station/AEP Parcels   | N/A      |
| 280001001200                 | Station/AEP Parcels   | N/A      |
| 510001005521                 | Station/AEP Parcels   | N/A      |
| 510001005519                 | Supplemental Existing Easement                                | No       |
| Township Road 261            |   |          |
| 510000129831                 | Supplemental Existing Easement                                | No<br>No |
| 510000129840<br>510001022545 | Supplemental Existing Easement                                | No<br>No |
| 310001022345                 | Supplemental Existing Easement                                | No       |

|                   | Township Road 218              |     |
|-------------------|--------------------------------|-----|
| 510001009373      | Supplemental Existing Easement | No  |
| 510001011771      | Supplemental Existing Easement | Yes |
| 510001011772      | Supplemental Existing Easement | Yes |
| 510001011774      | Supplemental Existing Easement | No  |
| 310001011//       | County Road 257                | 140 |
| 510001011775      | Supplemental Existing Easement | Yes |
| 510001031876      | Supplemental Existing Easement | No  |
| 510001031877      | Supplemental Existing Easement | No  |
| 510001004339      | Supplemental Existing Easement | Yes |
|                   | Township Road 256              |     |
| 510000130840      | Supplemental Existing Easement | No  |
| 510000130870      | Supplemental Existing Easement | No  |
| 510001014647      | Supplemental Existing Easement | Yes |
|                   | Townshio Road 254              |     |
| 510001015422      | Supplemental Existing Easement | Yes |
| 510001011867      | Supplemental Existing Easement | No  |
|                   | County Road 109                | ·   |
| 510001027928      | Supplemental Existing Easement | Yes |
| 510001012830      | Supplemental Existing Easement | No  |
| 510001012831      | Supplemental Existing Easement | No  |
| 510001019857      | Supplemental Existing Easement | No  |
|                   | Township Road 243              |     |
| 130001017329      | Supplemental Existing Easement | No  |
|                   | Township Road 247              |     |
| 130001032912      | Supplemental Existing Easement | No  |
| 130001032913      | Supplemental Existing Easement | No  |
| 130001013991      | Supplemental Existing Easement | No  |
| 130000028020      | Supplemental Existing Easement | No  |
| 130001020722      | Supplemental Existing Easement | No  |
|                   | Norfolk Southern RR            |     |
| 130001019515      | Supplemental Existing Easement | No  |
| 130001019514      | Supplemental Existing Easement | Yes |
|                   | County Road 216                |     |
| 130001029769      | Supplemental Existing Easement | No  |
| 130001029770      | Supplemental Existing Easement | No  |
| Township Road 238 |                                |     |
| 150001003829      | Supplemental Existing Easement | No  |
| 150001003179      | Supplemental Existing Easement | No  |
| 150001003950      | Supplemental Existing Easement | No  |
| 150001003830      | Supplemental Existing Easement | Yes |
| 150001025977      | Station/AEP Parcels            | N/A |
| 510001001210      | Station/AEP Parcels            | N/A |
| 510001006480      | Supplemental Existing Easement | No  |
| 510000130170      | Supplemental Existing Easement | No  |
| 510001029078      | Supplemental Existing Easement | No  |
| 510000129950      | Supplemental Existing Easement | No  |

| Township Road 262 |                                |     |
|-------------------|--------------------------------|-----|
| 510001032244      | Supplemental Existing Easement | No  |
| 510001011715      | Supplemental Existing Easement | No  |
| 510001005519      | Supplemental Existing Easement | No  |
| 510001005521      | Station/AEP Parcels            | N/A |

# Appendix D Agency Coordination Letters



In reply, refer to 2022-ALL-55344

August 8, 2022

Mr. Ryan J. Weller Weller & Associates, Inc. 1395 West Fifth Avenue Columbus, Ohio 43212

RE: East Lima-Woodcock 138kV Transmission Line Rebuild Project, Richland, Monroe, and Bath Townships, Allen County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received July 15, 2022 regarding the proposed East Lima-Woodcock 138kV Transmission Line Rebuild Project, Richland, Monroe, and Bath Townships, Allen County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code and the Ohio Power Siting Board rules for siting this project (OAC 4906-5). The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The following comments pertain to the *Phase I Archaeological Investigations for the 18.44 km (11.46 mi) East Lima-Woodcock 138kV Transmission Line Rebuild Project in Richland, Monroe, and Bath Townships, Allen County, Ohio* by Ryan J. Weller (Weller & Associates, Inc. 2022).

A literature review, visual inspection, surface collection, and shovel test probe was completed as part of the investigations. No previously identified archaeological sites are located within the project area. Six (6) new archaeological site were identified during survey, Ohio Archaeological Inventory (OAI) #33AL0262-33AL0267. The sites are recommended not eligible for listing in the National Register of Historic Places (NRHP). Our office agrees with this recommendation and no additional archeological investigation is needed.

The following comments pertain to the *History/Architecture Investigations for the 18.44 km (11.46 mi) East Lima-Woodcock 138kV Transmission Line Rebuild Project in Richland, Monroe, and Bath Townships, Allen County, Ohio* by Scott McIntosh (Weller & Associates, Inc. 2022).

A literature review and field survey were completed as part of the investigations. A total of one hundred and six (106) extant properties fifty years of age or older were identified within the Area of Potential Effects (APE). It is Weller's recommendation that these properties are not eligible for listing in the NRHP. Our office agrees with Weller's recommendations regarding eligibility.

Based on the information provided, we agree that the project as proposed will have no effect on historic properties. No further coordination with this office is necessary, unless the project changes or unless new or additional historic properties are discovered during implementation of this project. In such a situation, this office should be contacted. Our office requests Weller & Associates, Inc. complete the OAI forms for OAI#33AL0262-33AL0267 as soon as possible. Please notify our office when that form have been completed. If you have any questions, please contact me at (614) 298-2022, or by e-mail at <a href="mailto:khorrocks@ohiohistory.org">khorrocks@ohiohistory.org</a>, or Joy Williams at <a href="mailto:jwilliams@ohiohistory.org">jwilliams@ohiohistory.org</a>. Thank you for your cooperation.

Sincerely,

Krista Horrocks, Project Reviews Manager Resource Protection and Review

RPR Serial No: 1094163-1094164



In reply, refer to 2022-HAN-55324

August 8, 2022

Mr. Ryan J. Weller Weller & Associates, Inc. 1395 West Fifth Avenue Columbus, Ohio 43212

RE: New Liberty-Ebersole 138kV Rebuild Project, Liberty, Allen, and Cass Townships, Hancock County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received July 13, 2022 regarding the proposed New Liberty-Ebersole 138kV Rebuild Project, Liberty, Allen, and Cass Townships, Hancock County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code and the Ohio Power Siting Board rules for siting this project (OAC 4906-5). The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The following comments pertain to the *Phase I Archaeological Investigations for the 10.6 km (6.59 mi) New Liberty-Ebersole 138kV Rebuild Project in Liberty, Allen, and Cass Townships, Hancock County, Ohio* by Ryan J. Weller (Weller & Associates, Inc. 2022).

A literature review, visual inspection, surface collection, and shovel test probe was completed as part of the investigations. One (1) previously identified archaeological site is located within the project area, Ohio Archaeological Inventory (OAI) #33HK0790. The site was not reidentified during survey and was previously determined not eligible for listing in the National Register of Historic Places (NRHP). Two (2) new archaeological site were identified during survey, OAI#33HK1049 and 33HK1050. The sites are recommended not eligible for listing in the NRHP. Our office agrees with this recommendation and no additional archeological investigation is needed.

The following comments pertain to the History/Architecture Investigations for the 10.6 km (6.59 mi) New Liberty-Ebersole 138kV Rebuild Project in Liberty, Allen, and Cass Townships, Hancock County, Ohio by Scott McIntosh (Weller & Associates, Inc. 2022).

A literature review and field survey were completed as part of the investigations. A total of thirty-five (35) extant properties fifty years of age or older were identified within the Area of Potential Effects (APE). It is Weller's recommendation that these properties are not eligible for listing in the NRHP. Our office agrees with Weller's recommendations regarding eligibility.

Based on the information provided, we agree that the project as proposed will have no effect on historic properties. No further coordination with this office is necessary, unless the project changes or unless new or additional historic properties are discovered during implementation of this project. In such a situation, this office should be contacted. Our office requests Weller & Associates, Inc. complete the OAI forms for OAI#33HK1049 and 33HK1050 as soon as possible. Please notify our office when that form have been completed. If you have any questions, please contact me at (614) 298-2022, or by e-mail at <a href="mailto:khorrocks@ohiohistory.org">khorrocks@ohiohistory.org</a>, or Joy Williams at <a href="mailto:jwilliams@ohiohistory.org">jwilliams@ohiohistory.org</a>. Thank you for your cooperation.

Sincerely,

Krista Horrocks, Project Reviews Manager Resource Protection and Review

RPR Serial No: 1094137-1094138



In reply, refer to 2022-HAN-55282

August 1, 2022

Mr. Ryan J. Weller Weller & Associates, Inc. 1395 West Fifth Avenue Columbus, Ohio 43212

RE: Ebersole-Fostoria Central 138kV Rebuild Project, Washington and Cass Township, Hancock County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received July 7, 2022 regarding the proposed Ebersole-Fostoria Central 138kV Rebuild Project, Washington and Cass Township, Hancock County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code and the Ohio Power Siting Board rules for siting this project (OAC 4906-5). The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The following comments pertain to the *Phase I Archaeological Survey for the 11.04 km (6.86 mi) Ebersole-Fostoria Central 138kV Rebuild Project in Washington and Cass Township, Hancock County, Ohio* by Ryan J. Weller (Weller & Associates, Inc. 2022).

A literature review, visual inspection, surface collection, and shovel test probe was completed as part of the investigations. One (1) previously identified archaeological sites is located within the project area, Ohio Archaeological Inventory (OAI) #33HK0957. The site was not reidentified during survey and was previously determined not eligible for listing in the National Register of Historic Places (NRHP). One (1) new archaeological site was identified during survey, OAI#33HK1051 was identified during survey. The archaeological sites is not recommended eligible for listing in the NRHP. Our office agrees with this recommendation and no additional archeological investigation is needed.

The following comments pertain to the *History/Architecture Investigations for the 11.04 km* (6.86 mi) Ebersole-Fostoria Central 138kV Rebuild Project in Washington and Cass Township, Hancock County, Ohio by Scott McIntosh (Weller & Associates, Inc. 2022).

A literature review and field survey were completed as part of the investigations. A total of thirty-one (31) extant properties fifty years of age or older were identified within the Area of Potential Effects (APE). It is Weller's recommendation that these properties are not eligible for listing in the NRHP. Our office agrees with Weller's recommendations regarding eligibility.

Based on the information provided, we agree that the project as proposed will have no effect on historic properties. No further coordination with this office is necessary, unless the project changes or unless new or additional historic properties are discovered during implementation of this project. In such a situation, this office should be contacted. Our office requests Weller & Associates, Inc. complete the OAI forms for OAI#33HK1051 as soon as possible. Please notify our office when that form have been completed. If you have any questions, please contact me at (614) 298-2022, or by e-mail at <a href="mailto:khorrocks@ohiohistory.org">khorrocks@ohiohistory.org</a>, or Joy Williams at <a href="mailto:jwilliams@ohiohistory.org">jwilliams@ohiohistory.org</a>. Thank you for your cooperation.

Sincerely,

Krista Horrocks, Project Reviews Manager Resource Protection and Review

RPR Serial No: 1094053-1094054



In reply, refer to 2022-HAN-55275

RPR Serial No: 1094037-1094038

August 1, 2022

Mr. Ryan J. Weller Weller & Associates, Inc. 1395 West Fifth Avenue Columbus, Ohio 43212

RE: Fostoria Central 138kV Extension Project, Washington Township, Hancock County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received July 5, 2022 regarding the proposed Fostoria Central 138kV Extension Project, Washington Township, Hancock County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code and the Ohio Power Siting Board rules for siting this project (OAC 4906-5). The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The following comments pertain to the *Phase I Archaeological Survey for the 2.37 km (1.47 mi) Fostoria Central 138kV Extension Project in Washington Township, Hancock County, Ohio* by Ryan J. Weller (Weller & Associates, Inc. 2022).

A literature review, visual inspection, and surface collection was completed as part of the investigations. No previously identified archaeological sites are located within the project area and no new archaeological sites were identified during survey. Our office agrees no additional archeological investigation is needed.

The following comments pertain to the *History/Architecture Investigations for the 2.37 km (1.47 mi) Fostoria Central 138kV Extension Project in Washington Township, Hancock County, Ohio* by Scott McIntosh (Weller & Associates, Inc. 2022).

A literature review and field survey were completed as part of the investigations. A total of twenty-eight (28) extant properties fifty years of age or older were identified within the Area of Potential Effects (APE). It is Weller's recommendation that these properties are not eligible for listing in the National Register of Historic Places (NRHP). Our office agrees with Weller's recommendations regarding eligibility.

Based on the information provided, we agree that the project as proposed will have no effect on historic properties. No further coordination with this office is necessary, unless the project changes or unless new or additional historic properties are discovered during implementation of this project. In such a situation, this office should be contacted. If you have any questions, please contact me at (614) 298-2022, or by e-mail at <a href="mailto:khorrocks@ohiohistory.org">khorrocks@ohiohistory.org</a>, or Joy Williams at <a href="mailto:jwilliams@ohiohistory.org">jwilliams@ohiohistory.org</a>. Thank you for your cooperation.

Sincerely,

Krista Horrocks, Project Reviews Manager

Resource Protection and Review



## Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Fax: (614) 267-4764

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

August 8, 2022

Tyler Russell Environmental Solutions & Innovations, Inc. 4300 Lynn Rd, Suite 205 Ravenna, OH 44266

**Re:** 22-0704; AEP Ohio Transmission Company, Inc. (AEP) - Fostoria – East Lima Line Rebuild Project

**Project:** The proposed project involves rebuilding the existing Fostoria - East Lima transmission line.

**Location:** The proposed project is located in Bath, Monroe, and Richland Townships, Allen County, and Union, Blanchard, Allen, Cass, and Washington Townships, Hancock County, Ohio.

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

**Natural Heritage Database:** The Natural Heritage Database has the following data at or within one mile of the project area:

Rock Elm (*Ulmus thomasii*), P Least Darter (*Etheostoma microperca*), SC Elktoe (*Alasmidonta marginata*), SC Creek Heelsplitter (*Lasmigona compressa*), SC Kidneyshell (*Ptychobranchus fasciolaris*), SC Salamander Mussel (*Simpsonaias ambigua*), T Deertoe (*Truncilla truncata*), SC

Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; U = state status under review; X = presumed extirpated in Ohio; FE = federally endangered, and FT = federally threatened.

The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980.

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

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

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

The entire state of Ohio is within the range of the Indiana bat (Myotis sodalis), a state endangered and federally endangered species, the northern long-eared bat (Myotis septentrionalis), a state endangered and federally threatened species, the little brown bat (Myotis lucifugus), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these species of bats predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. If trees are present within the project area, and trees must be cut, the DOW recommends cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH  $\geq$  20 if possible. If trees are present within the project area, and trees must be cut during the summer months, the DOW recommends a mist net survey or acoustic survey be conducted from June 1 through August 15, prior to any cutting. Mist net and acoustic surveys should be conducted in accordance with the most recent version of the "OHIO DIVISION OF WILDLIFE GUIDANCE FOR BAT SURVEYS AND TREE CLEARING". If state listed bats are documented, DOW recommends cutting only occur from October 1 through March 31. However, limited summer tree cutting may be acceptable after consultation with the DOW (contact Eileen Wyza at Eileen. Wyza@dnr.ohio.gov).

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

The project is within the range of the following listed mussel species. Federally Endangered clubshell (*Pleurobema clava*) rayed bean (*Villosa fabalis*)

<u>State Endangered</u> purple lilliput (*Toxolasma lividum*)

<u>State Threatened</u> pondhorn (*Uniomerus tetralasmus*) Salamander Mussel (*Simpsonaias ambigua*) Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the western banded killifish (*Fundulus diaphanus menona*), a state endangered fish. Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species. This secretive species prefers wet meadows and other wetlands. The DOW recommends that an approved herpetologist conducts a habitat suitability survey to determine if suitable habitat is present within the project area. If suitable habitat is determined to be present; the DOW recommends that a presence/absence survey be conducted, or an avoidance/minimization plan be developed and implemented by the approved herpetologist. A list of approved herpetologists has been provided for your convenience.

The project is within the range of the black-crowned night-heron (*Nycticorax nycticorax*), a state-threatened bird. Night-herons are so named because they are nocturnal, conducting most of their foraging in the evening hours or at night, and roost in trees near wetlands and waterbodies during the day. Night herons are migratory and are typically found in Ohio from April 1 through December 1 but can be found in more urbanized areas with reliable food sources year-round. Black-crowned night-herons primarily forage in wetlands and other shallow aquatic habitats, and roost in trees nearby. These night-herons nest in small trees, saplings, shrubs, or sometimes on the ground, near bodies of water and wetlands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the least bittern (*Ixobrychus exilis*), a state threatened bird. This secretive marsh species prefers dense emergent wetlands with thick stands of cattails, sedges, sawgrass or other semiaquatic vegetation interspersed with woody vegetation and open water. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the northern harrier (*Circus hudsonis*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

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

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

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

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

Mike Pettegrew Environmental Services Administrator

### **Tyler Russell**

From: Ohio, FW3 <ohio@fws.gov>

Sent: Wednesday, July 27, 2022 9:30 AM

**To:** Tyler Russell

Cc: nathan.reardon@dnr.state.oh.us; Wyza, Eileen; Scott Denham; Cory Kwolek; Grant S

Stuller

**Subject:** AEP Fostoria – East Lima Rebuild Project in Hancock County, Ohio

**CAUTION:** This email originated from outside of our organization. DO NOT click links or open attachments unless you recognize the sender and know the content is safe!



UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. Fish and Wildlife Service
Ecological Services Office
4625 Morse Road, Suite 104
Columbus, Ohio 43230
(614) 416-8993 / Fax (614) 416-8994



Project Code: 2022-0058530

Dear Mr. Russell,

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

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

Seasonal Tree Clearing for Federally Listed Bat Species: Should the proposed project site contain trees  $\geq 3$  inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees  $\geq 3$  inches dbh cannot be avoided, we

recommend removal of any trees ≥3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule (see <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>), incidental take of Indiana bats is still prohibited without a project-specific exemption. Thus, seasonal clearing is recommended where Indiana bats are assumed present. If implementation of this seasonal tree cutting recommendation is not possible, a summer presence/absence survey may be conducted for Indiana bats. If Indiana bats are not detected during the survey, then tree clearing

may occur at any time of the year. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Ohio Field Office. Surveyors must have a valid federal permit. Please note

that in Ohio summer mist net surveys may only be conducted between June 1 and August 15.

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

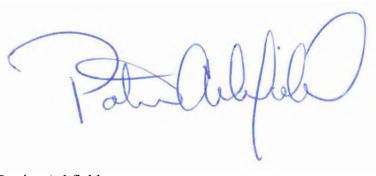
Stream and Wetland Avoidance: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (https://epa.ohio.gov/portals/47/facts/ohio\_wetlands.pdf). We recommend avoiding and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

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, coordination with the Service should be initiated to assess any potential impacts.

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, Acting Environmental Services Administrator, at (614) 265-6387 or at <a href="mailto:mike.pettegrew@dnr.state.oh.us">mike.pettegrew@dnr.state.oh.us</a>.

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

Sincerely,



Patrice Ashfield Field Office Supervisor

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

# Appendix E Wetland Delineation Report

# ECOLOGICAL SURVEY REPORT FOSTORIA – EAST LIMA 138KV TRANSMISSION REBUILD PROJECT BATH, MONROE, RICHLAND, UNION, BLANCHARD, LIBERTY, ALLEN, CASS, AND WASHINGTON TOWNSHIPS ALLEN AND HANCOCK COUNTIES, OHIO

23 August 2022

Prepared for:



American Electric Power 8500 Smith's Mill Road New Albany, OH 43054

Prepared by:



Environmental Solutions & Innovations, Inc.

4525 Este Avenue Cincinnati, Ohio 45232 Phone: (513) 451-1777 Fax: (513) 451-3321

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Appendix F: Wetland, Stream and Pond Tables

Appendix G: Site Photos

Appendix H: Wetland and Stream Datasheets

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# 1.0 Introduction

American Electric Power (AEP) retained Environmental Solutions & Innovations, Inc. (ESI) to perform an ecological survey for the Fostoria – East Lima 138 kV Transmission Rebuild Project in Bath, Monroe, Richland, Union, Blanchard, Liberty, Allen, Cass, and Washington Townships in Allen and Hancock counties, Ohio within the project's proposed Area of Investigation (AOI; Appendix A, Figures 1 and 2). ESI completed a field review of the AOI from 29 June through 5 July 2022. This report outlines review of published resource materials, existing site conditions, agency coordination, and results of field investigation.

# 2.0 Methods

# 2.1 Desktop Evaluation

Prior to visiting the site, available topographic, aerial, soils, flood, and National Wetlands Inventory (NWI) mapping is reviewed to determine onsite areas that may contain aquatic resources. State stream designations, navigability, and other criteria that would determine agency jurisdiction are also reviewed.

# 2.2 Threatened and Endangered Species

To assist with Endangered Species Act (ESA), Bald and Golden Eagle Protection Act (BGEPA), and Migratory Bird Treaty Act (MBTA) compliance, a project review was requested, and a response was received 27 July 2022 from U.S. Fish and Wildlife Service (USFWS) Ohio Field Office (Appendix B). To identify potential conflicts with state-listed species and appropriately complete Ohio Rapid Assessment Methods (ORAMs), a request was submitted to Ohio Department of Natural Resources (ODNR) and a response was received on 8 August 2022 (Appendix B).

# 2.3 Aquatic Resource Delineations

Wetland delineation procedures follow the 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region ERDC/EL TR-10-16 Version 2.0 (USACE 2010), and the 1987 Corps of Engineers Wetland Delineation Manual (USACE 1987). The federally regulated Ordinary High Water Mark (OHWM) of streams is delineated using the USACE Regulatory Guidance Letter 05-05 — Guidance on Ordinary High Water Mark Identification. Each stream is categorized in regard to its flow regime as perennial, intermittent, or ephemeral, as defined by the USACE. Delineated aquatic resources are classified according to the Classification of Wetland and Deepwater Habitats of the United States (Cowardin et al. 1979). Each wetland

identified is evaluated consistent with the Ohio Rapid Assessment Method (ORAM, Version 5.0), developed by the Ohio Environmental Protection Agency (OEPA). Streams with drainage areas less than one square mile are evaluated using the Field evaluation manual for Ohio's primary headwater habitat streams (OEPA 2020). Aquatic resource boundaries and sample points are surveyed using a GPS with sub-meter accuracy.

# 3.0 Results

# 3.1 Desktop Evaluation

# 3.1.1 Topography and Drainage

The project appears on the Cairo, Beaverdam, Bluffton, Rawson, McComb, Findlay, Arcadia, and Fostoria Ohio U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle maps (Appendix A, Figure 1). The AOI consists of flat agriculture and scattered woodlots with elevations ranging from approximately 755 feet to 870 feet. The site drains to the Blanchard River and South Branch Portage River.

# 3.1.2 Soil Survey

The Natural Resources Conservation Service (NRCS) maps 54 soil series considered hydric or partially hydric within the AOI. The NRCS soil map and hydric soils list is provided in Appendix C.

# 3.1.3 National Wetlands Inventory

Fifty-four NWI mapped resources were identified within the AOI. Note that NWI maps are derived from aerial photo interpretation and are suitable for general planning purposes only; they typically do not show all the wetland or watercourse resources within any given area. All areas were field reviewed. A table summarizing mapped NWI resources within the AOI is provided in Appendix D.

# 3.1.4 Aerial Imagery

Aerial mapping from 1984 through 2021 shows the site as dominated by agricultural fields and urban/suburban areas. Aerial representation of the site is provided in Appendix A, Figure 2.

#### 3.2 Threatened and Endangered Species

Suitable habitat exists within the AOI for state and federal listed bat species including the Indiana bat (*Myotis sodalis*), northern long-eared bat (*Myotis septentrionalis*), little brown bat (*Myotis lucifugus*), and tricolored bat (*Perimyotis subflavus*) with agency-recommended tree clearing dates of 1 October to 31 March, if required. A desktop



assessment for features potentially suitable as bat hibernacula revealed no active or historic mining sites within 3 miles of the Project. Portal searches within the Project's AOI were concurrently completed with wetland and stream delineations, and no features potentially suitable for hibernating bats were documented. If trees within the project area require removal, the ODNR-Division of Wildlife (DOW) recommends cutting from 1 October through 31 March and, if possible, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, and trees with diameter at breast height (DBH) ≥ 20 inches. If trees within the project area require cutting during summer months, the ODNR-DOW recommends completing a mist net survey or acoustic survey from 1 June through 15 August prior to any cutting.

The project is within the range of the western banded killifish (*Fundulus diaphanus menona*), a state endangered fish. Based on the project's location and no in-water work in a perennial stream is proposed, the project is not likely to impact western banded killifish.

The project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species that prefers wet meadows and other wetlands. Based on the project's location, the type of habitat within the project area, and the work proposed, the project is not likely to impact Kirtland's snake.

The project is within the range of the black-crowned night-heron (*Nycticora nycticorax*), a state threatened bird. Night-herons are so named because they are nocturnal, conducting most foraging in the evening hours or at night, and roost in trees near wetlands and waterbodies during the day. Night herons are migratory and are typically found in Ohio from 1 April through 1 December but can be found in more urbanized areas with reliable food sources year-round. Black-crowned night-herons primarily forage in wetlands and other shallow aquatic habitats, and roost in trees nearby. Night-herons nest in small trees, saplings, shrubs, or sometimes on the ground, near bodies of water and wetlands. If this type of habitat is potentially impacted by project activities, ODNR-DOW recommends avoiding construction during the species' nesting period of 1 May through 31 July. If habitat is not impacted, the project is not likely to impact black-crowned night-heron.

The project is within the range of the least bittern (*Ixobrychus exilis*), a state threatened bird that prefers dense emergent wetlands with thick stands of cattails, sedges, sawgrass or other semiaquatic vegetation interspersed with woody vegetation and open water. If this type of habitat is potentially impacted, ODNR-DOW recommends avoiding construction during the species' nesting period of 1 May through 31 July. If habitat is not impacted, the project is not likely to impact least bittern.

The project is within the range of the northern harrier (*Circus hudsonius*), a state endangered bird and a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest



in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat is potentially impacted, ODNR-DOW recommends avoiding construction during the species' nesting period of 15 April through 31 July. If habitat is not impacted, the project is not likely to impact northern harrier.

To reduce impacts to indigenous aquatic species and habitat, the ODNR-DOW recommends avoiding in-water work in perennial streams from 15 April to 30 June. Furthermore, if in-stream work is anticipated in streams considered suitable for freshwater mussels, the ODNR-DOW recommends completion of a mussel survey in the project area by a professional malacologist. A summary table of rare, threatened, and endangered species potentially occurring within the AOI is provided in Appendix E.

# 3.3 Aquatic Resource Delineations

Forty wetlands (including one wetland complex), 29 stream segments, one ditch segment, and six ponds were identified and delineated within the AOI and are summarized in Appendix F. Representative photographs of aquatic resources are provided in Appendix G. Field data sheets for wetland and upland sample points, ORAM, and HHEI forms are provided in Appendix H. The aquatic resource delineation map depicting resource locations is provided in Appendix A, Figure 2.

# 4.0 Conclusion

Desktop review and field investigations completed by ESI from 29 June through 5 July 2022 identified forty wetlands (including one wetland complex), 29 stream segments, one ditch segment, and six ponds within the AOI (Appendix A, Figure 2). Temporary or permanent impacts to these resources may require permits from the USACE and or OEPA.

ODNR and USFWS recommend seasonal tree clearing to avoid impacts to state and federally listed bat species. ODNR-DOW provided recommendations to avoid impacts to state-listed fish and mussel species. If construction cannot adhere to seasonal tree clearing dates or requires in-water work, additional coordination with the agencies and/or surveys may be needed.

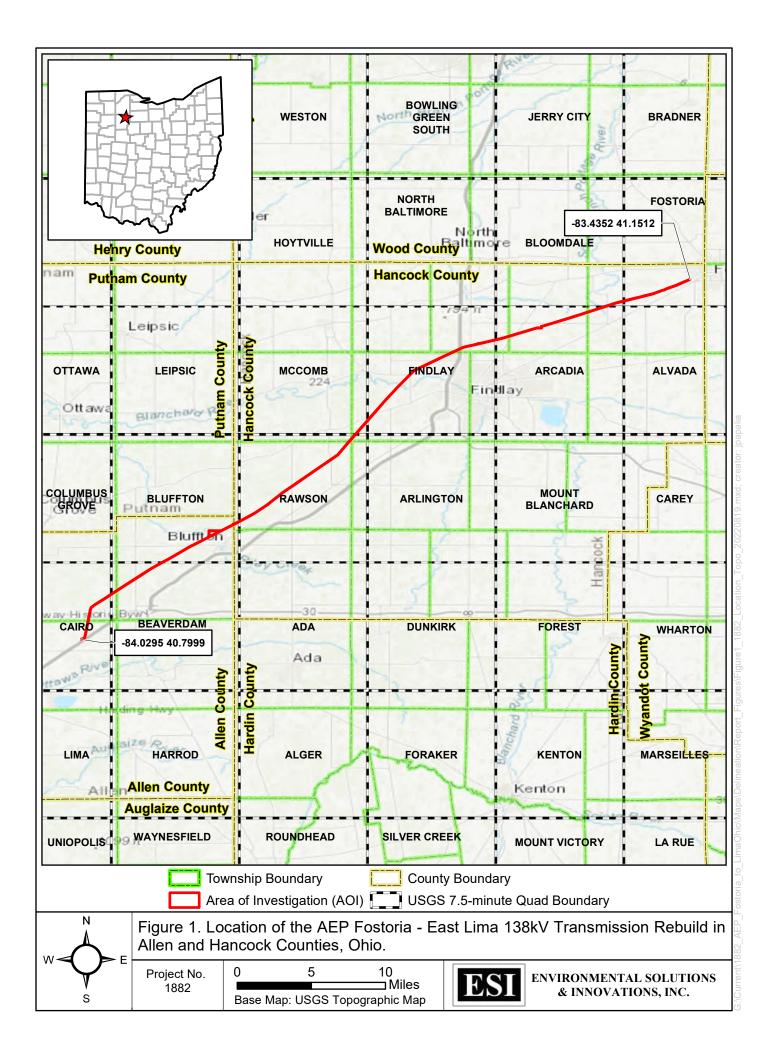


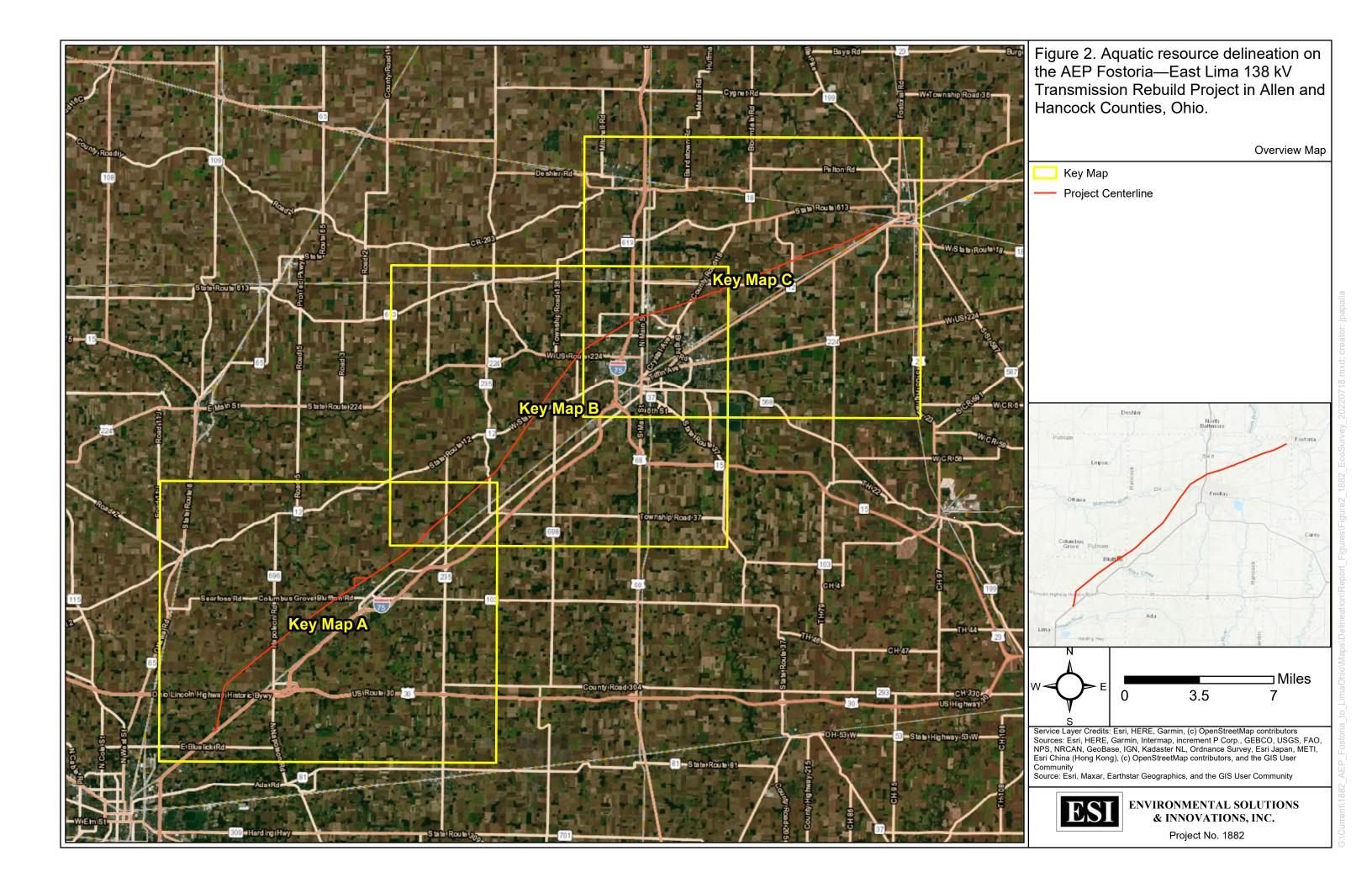
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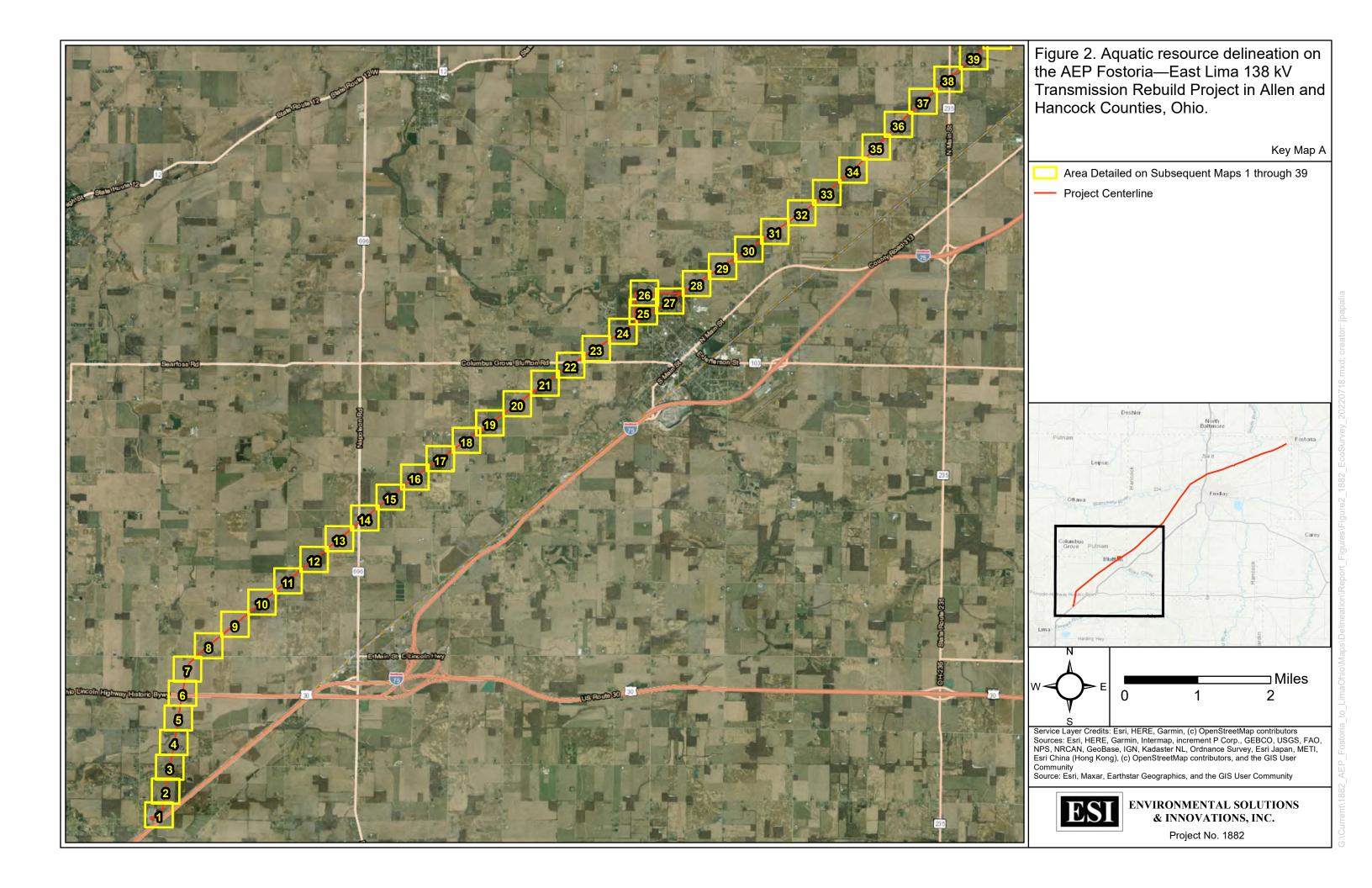
- Cowardin, L. M., V. Carter, F. C. Golet, and E. T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. FWSOBS 79/31, December 1979. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. 79 pp.
- OEPA. 2020. Field methods for evaluating primary headwater streams in Ohio. Version 4.1. Ohio Environmental Protection Agency, Division of Surface Water, Columbus, Ohio. 130 pp.
- USACE. 1987. Corps of Engineers Wetlands Delineation Manual. Final Report. Wetlands Research Program Technical Report Y-87-1 (on-line edition), Waterways Experiment Station, Environmental Laboratory, Vicksburg, Mississippi. 143 pp.
- USACE. 2010. Regional supplement to the Corps of Engineers wetland delineation manual: Midwest Region (Version 2.0). ERDC/EL TR-10-16, U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi. 154 pp.

# APPENDIX A FIGURES





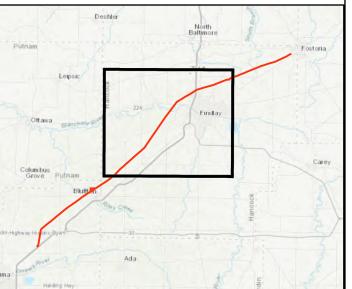


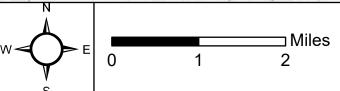


Key Map B

Area Detailed on Subsequent Maps 38 through 79

Project Centerline





Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



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Key Map C

Area Detailed on Subsequent Maps 68 through 104 Project Centerline

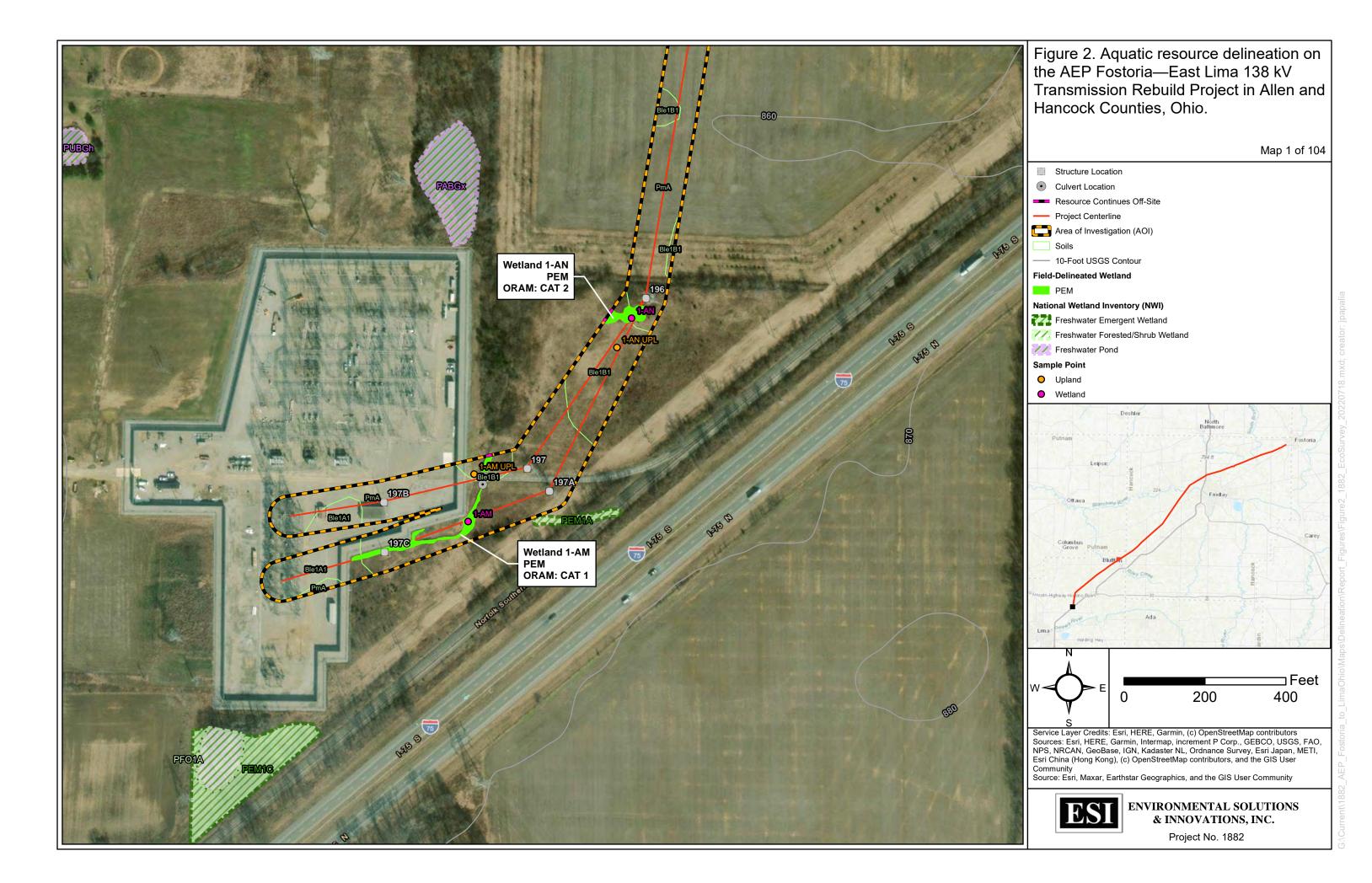


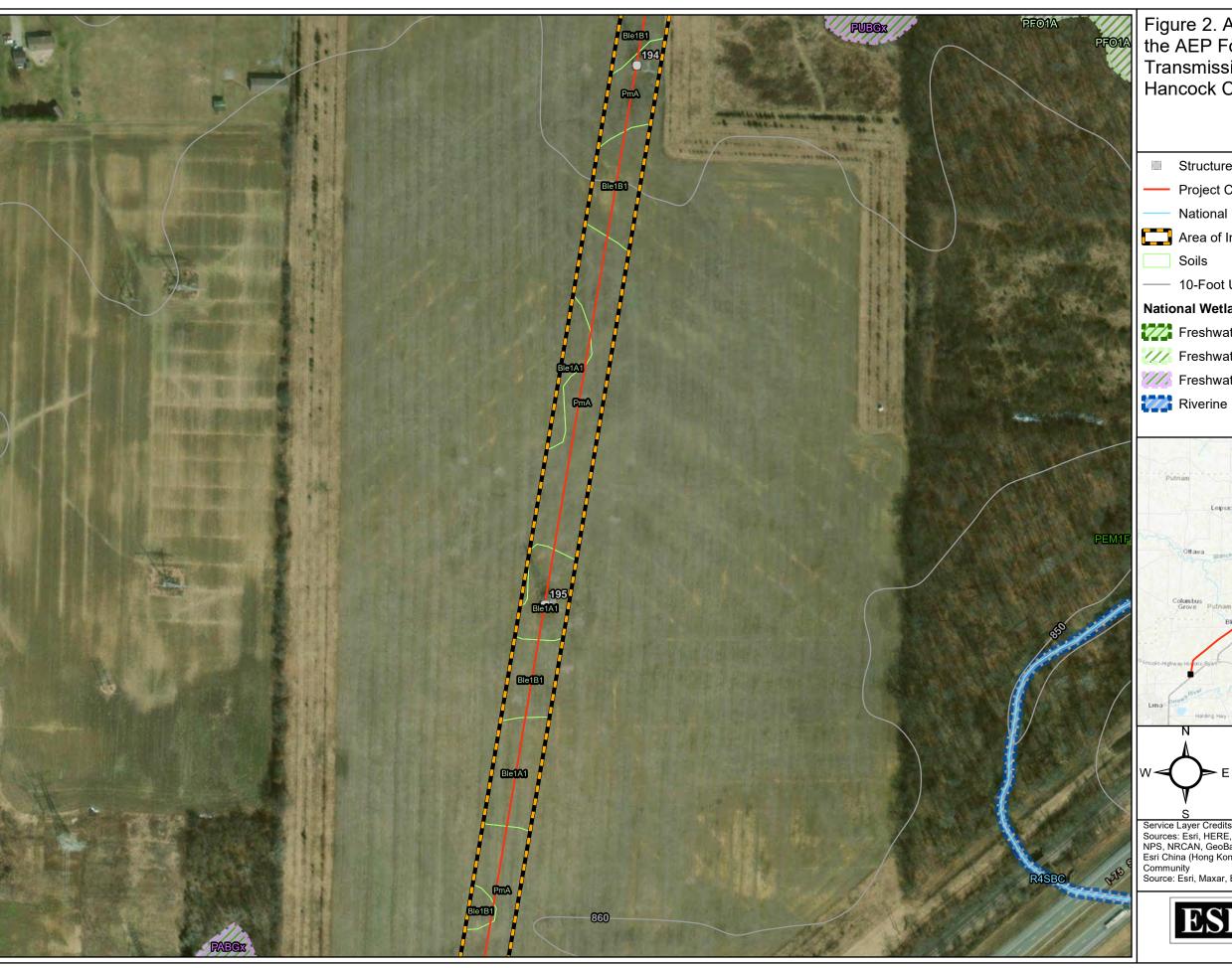


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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



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Structure Location

Project Centerline

National Hydrography Dataset (NHD) Stream

Area of Investigation (AOI)

10-Foot USGS Contour

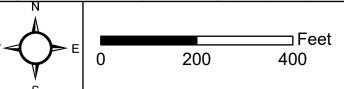
**National Wetland Inventory (NWI)** 

Freshwater Emergent Wetland

/// Freshwater Forested/Shrub Wetland

//// Freshwater Pond



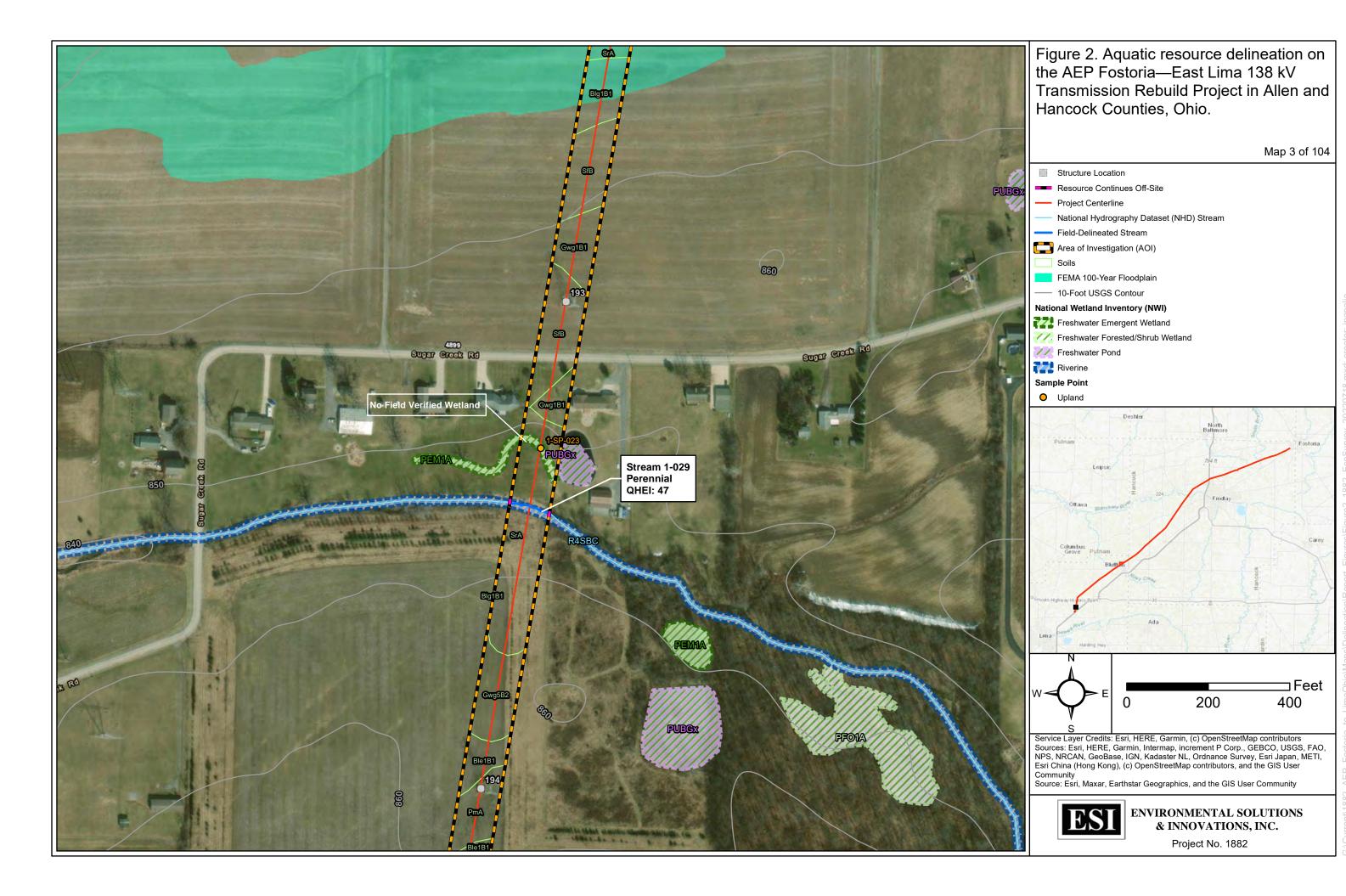


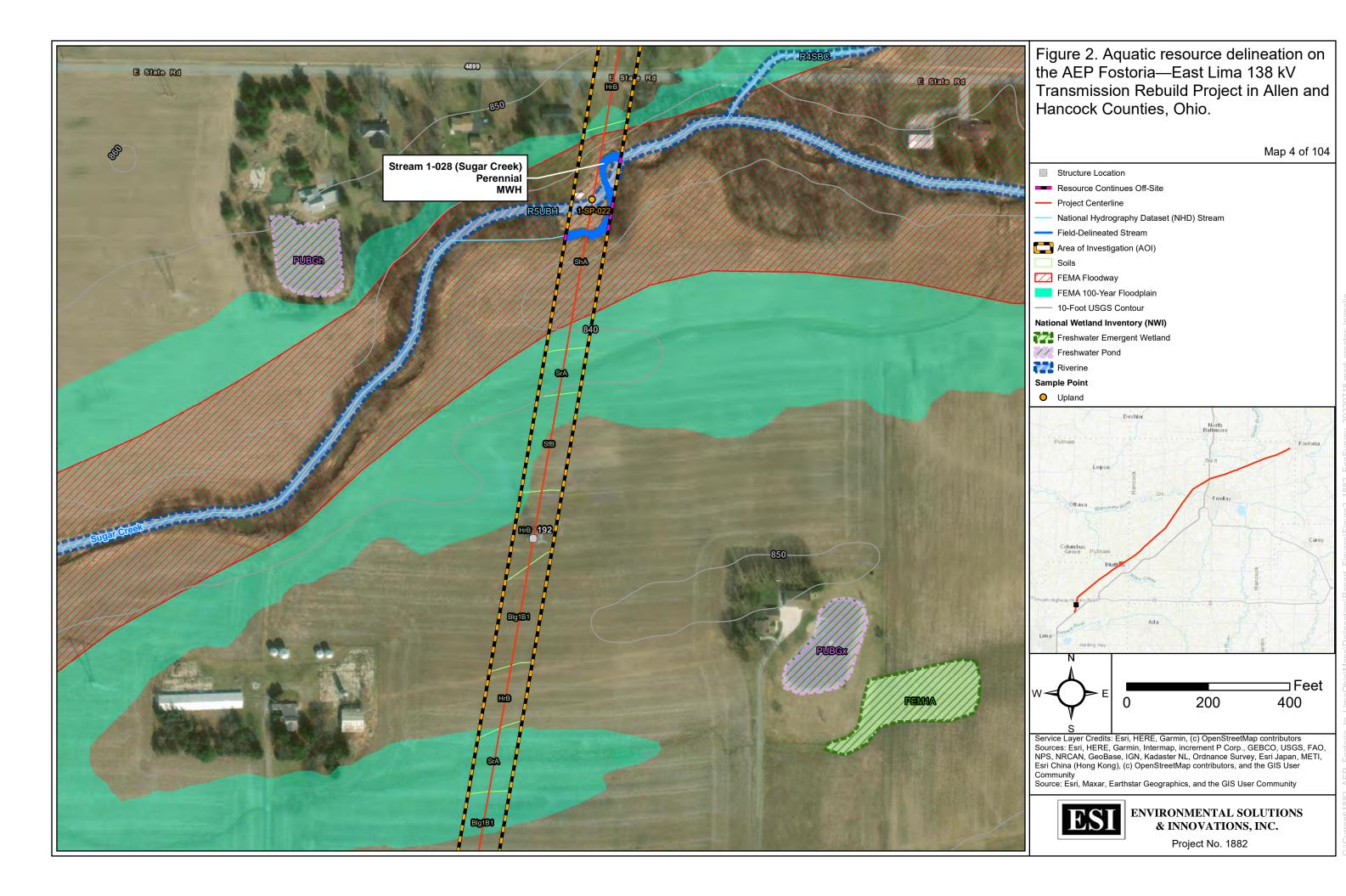
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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



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Map 5 of 104



Project Centerline

National Hydrography Dataset (NHD) Stream

Area of Investigation (AOI)

FEMA Floodway

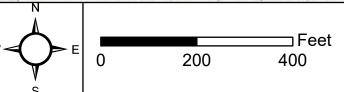
FEMA 100-Year Floodplain

10-Foot USGS Contour

# **National Wetland Inventory (NWI)**

Freshwater Forested/Shrub Wetland



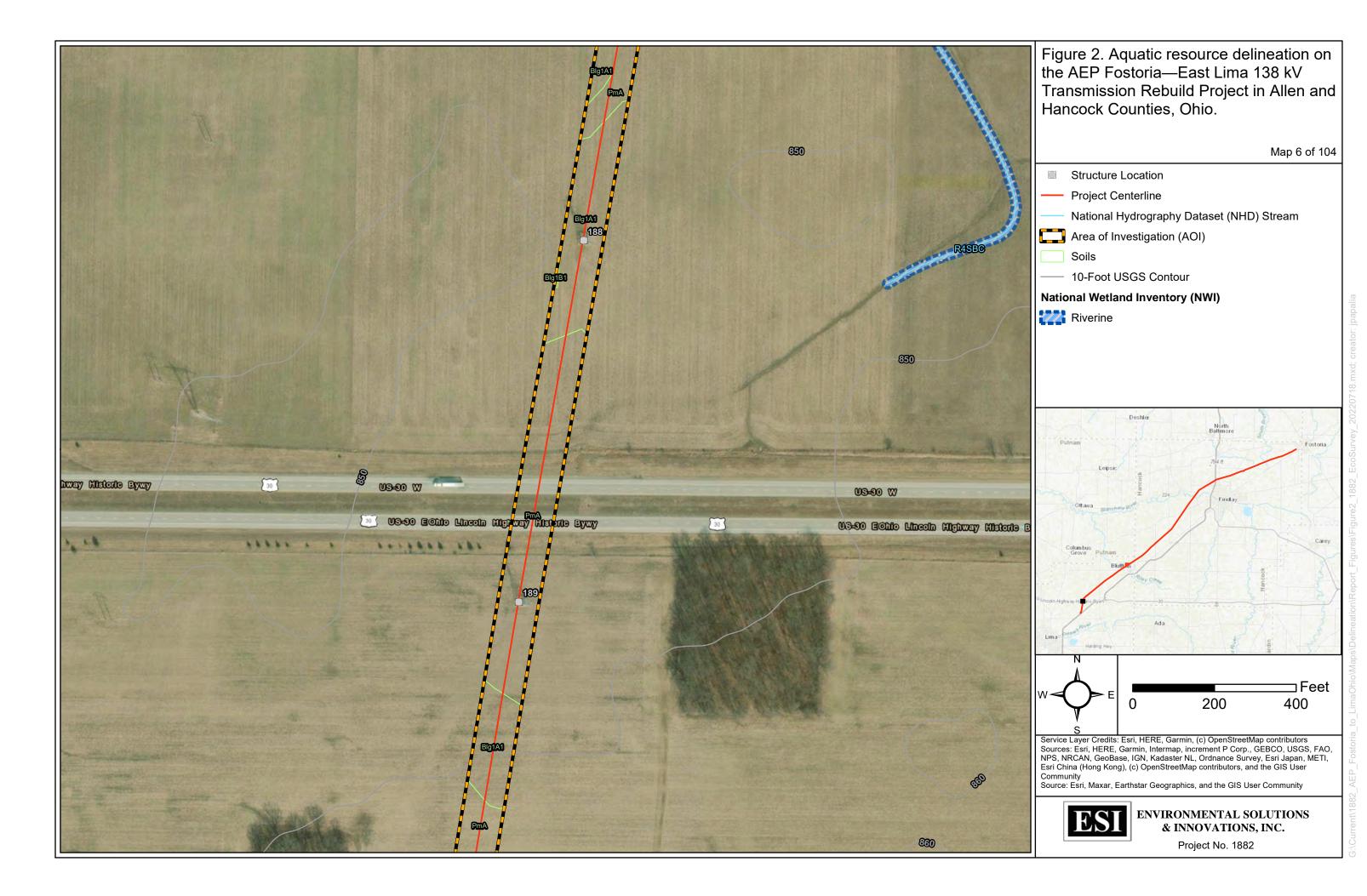


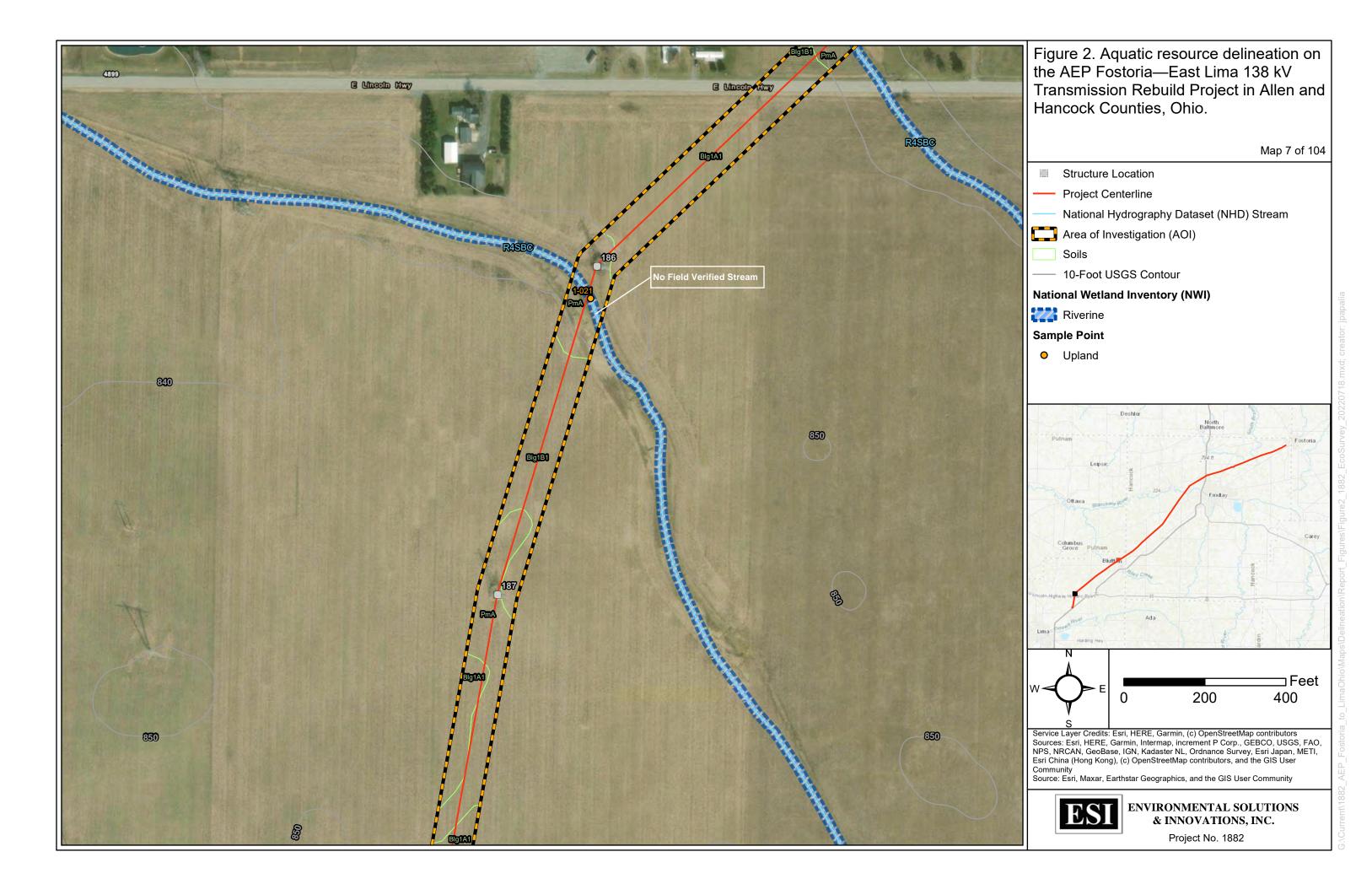
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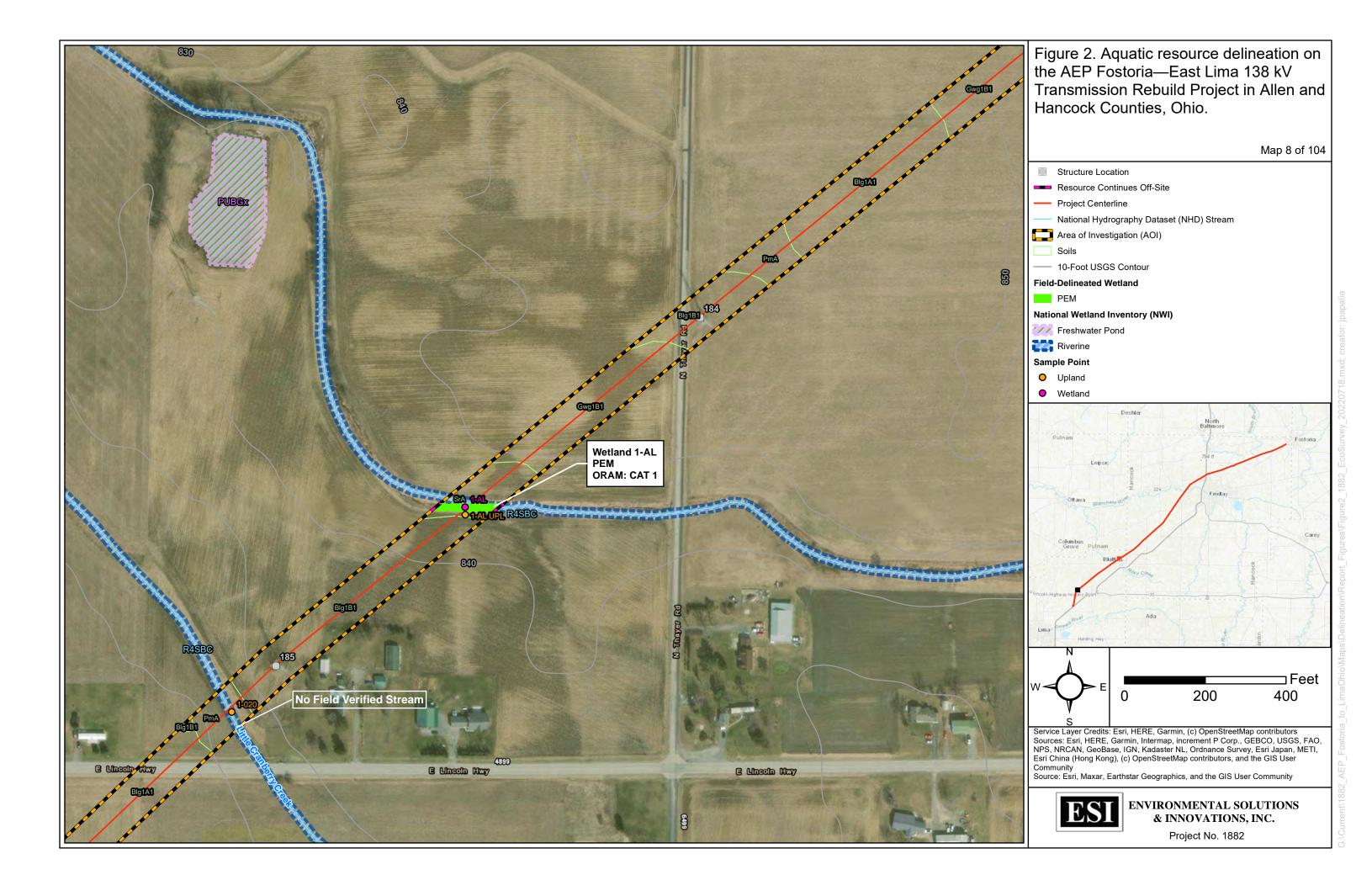
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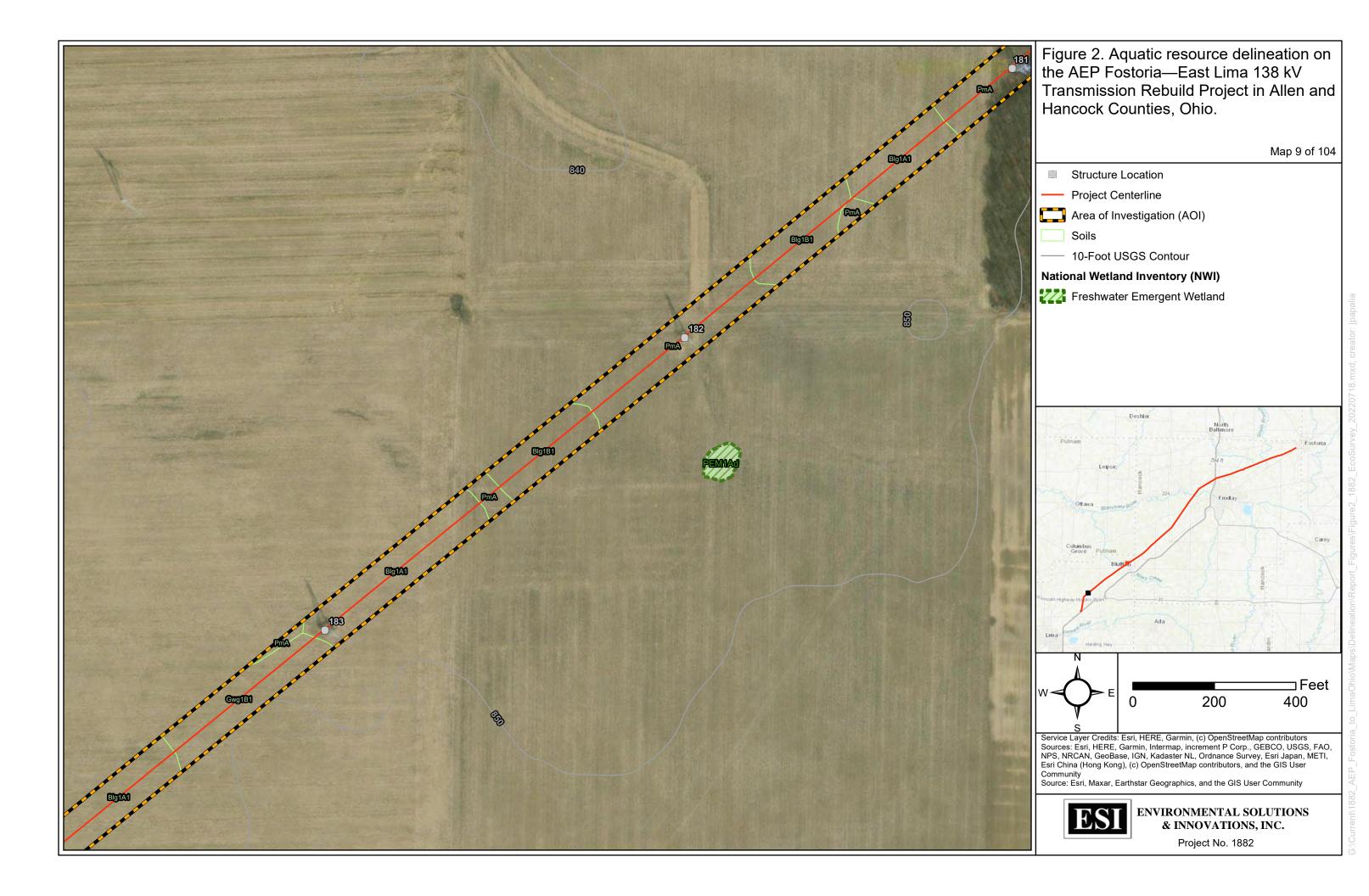


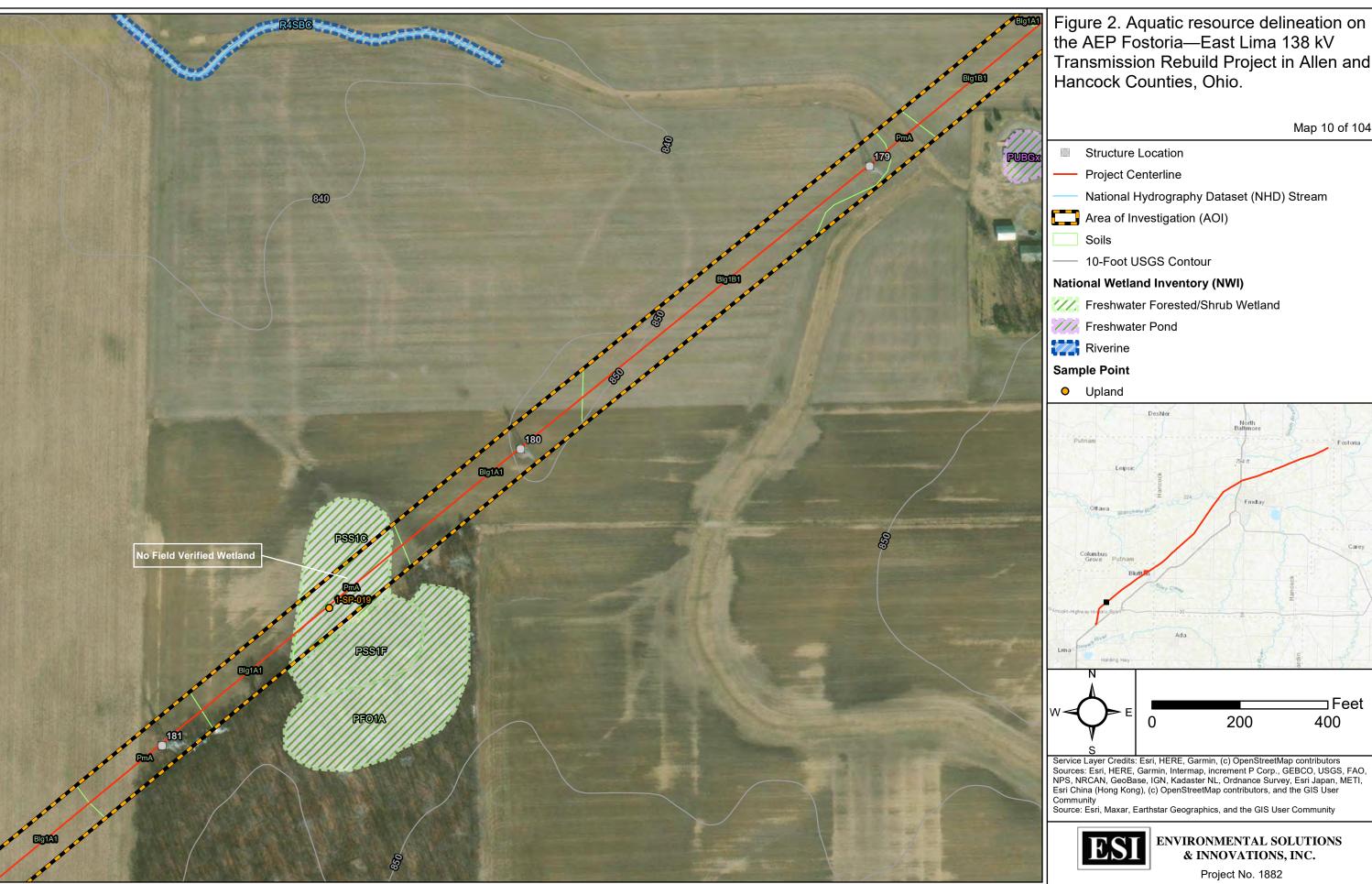
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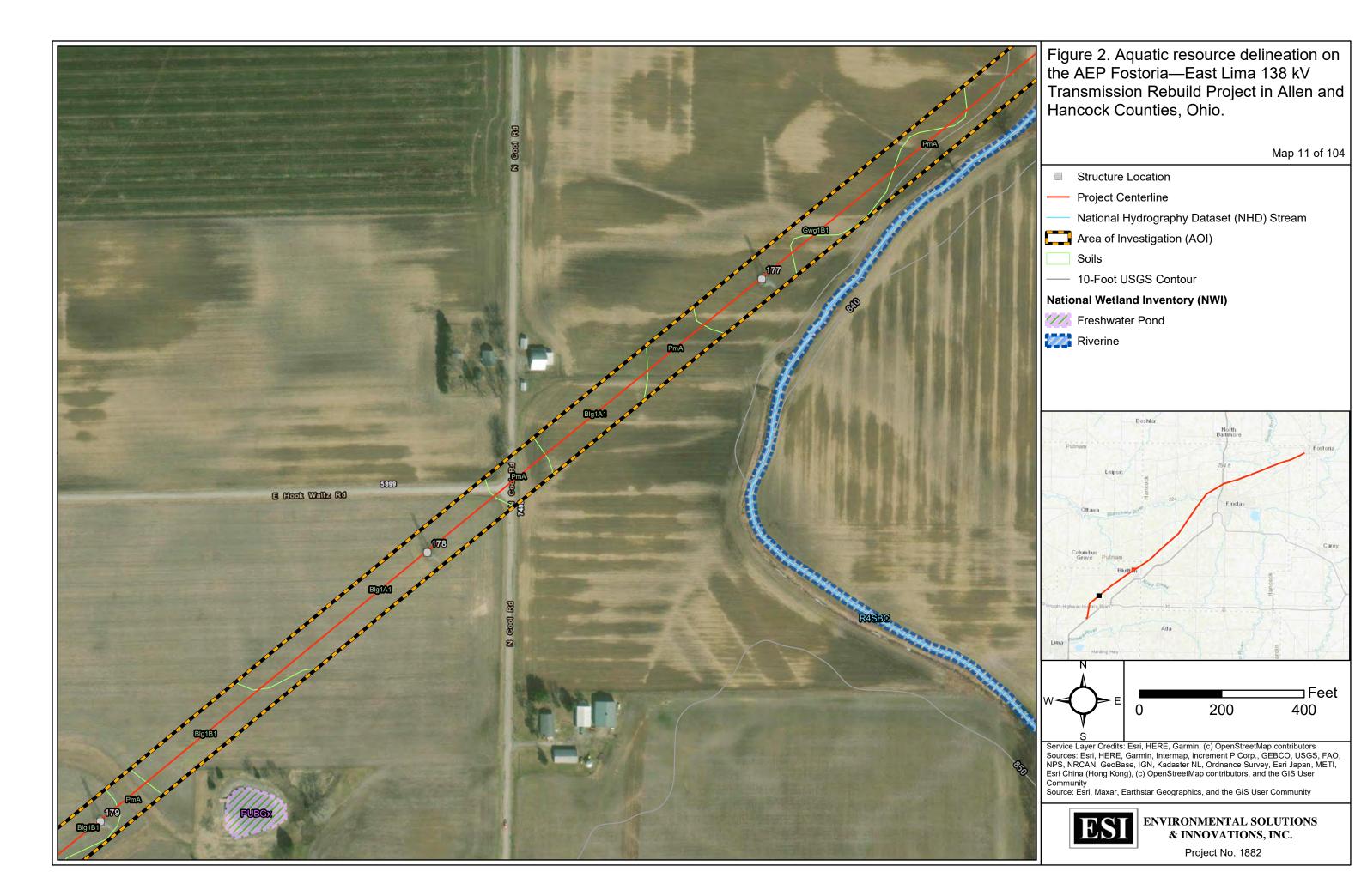
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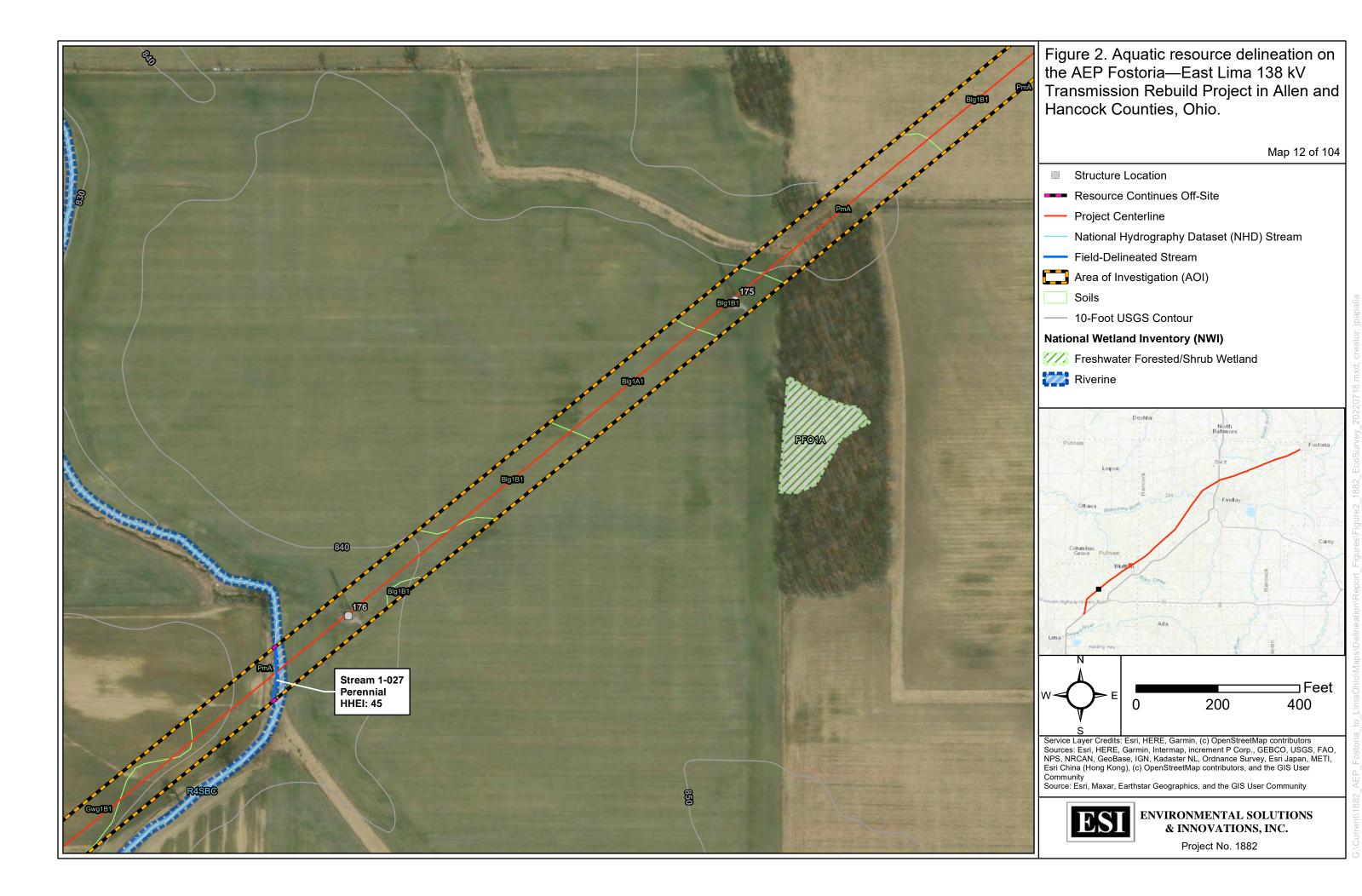
Map 10 of 104

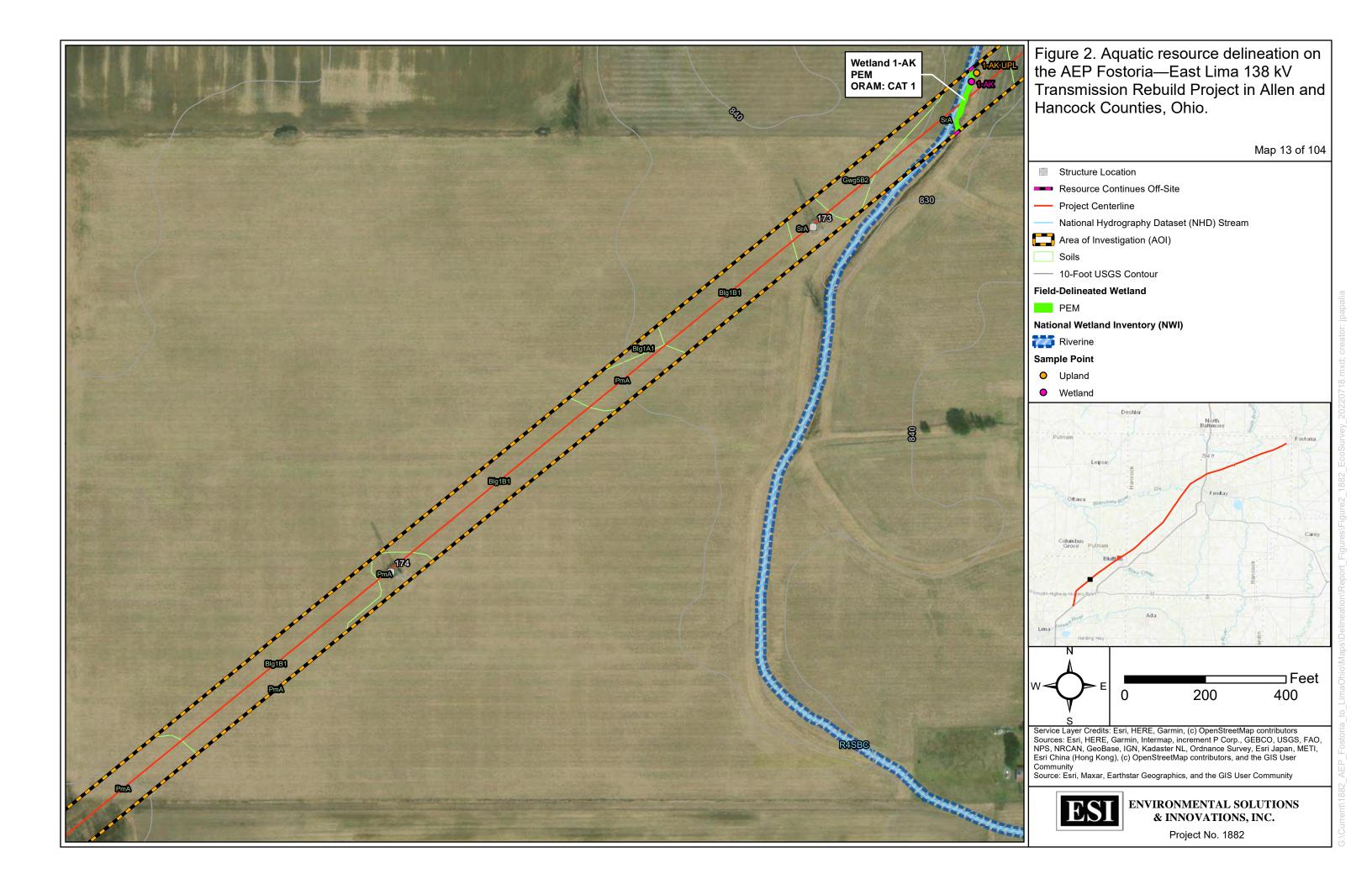


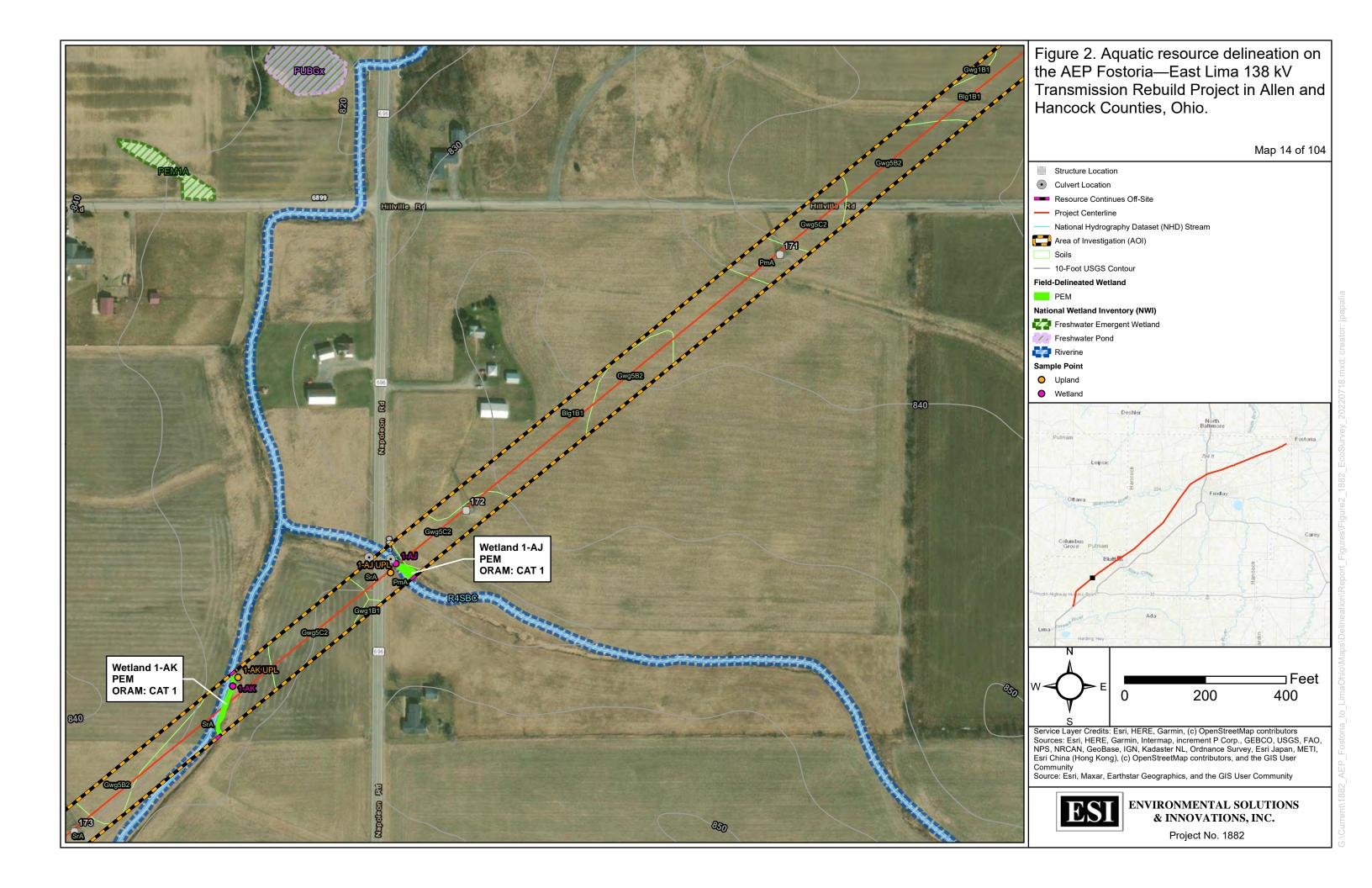


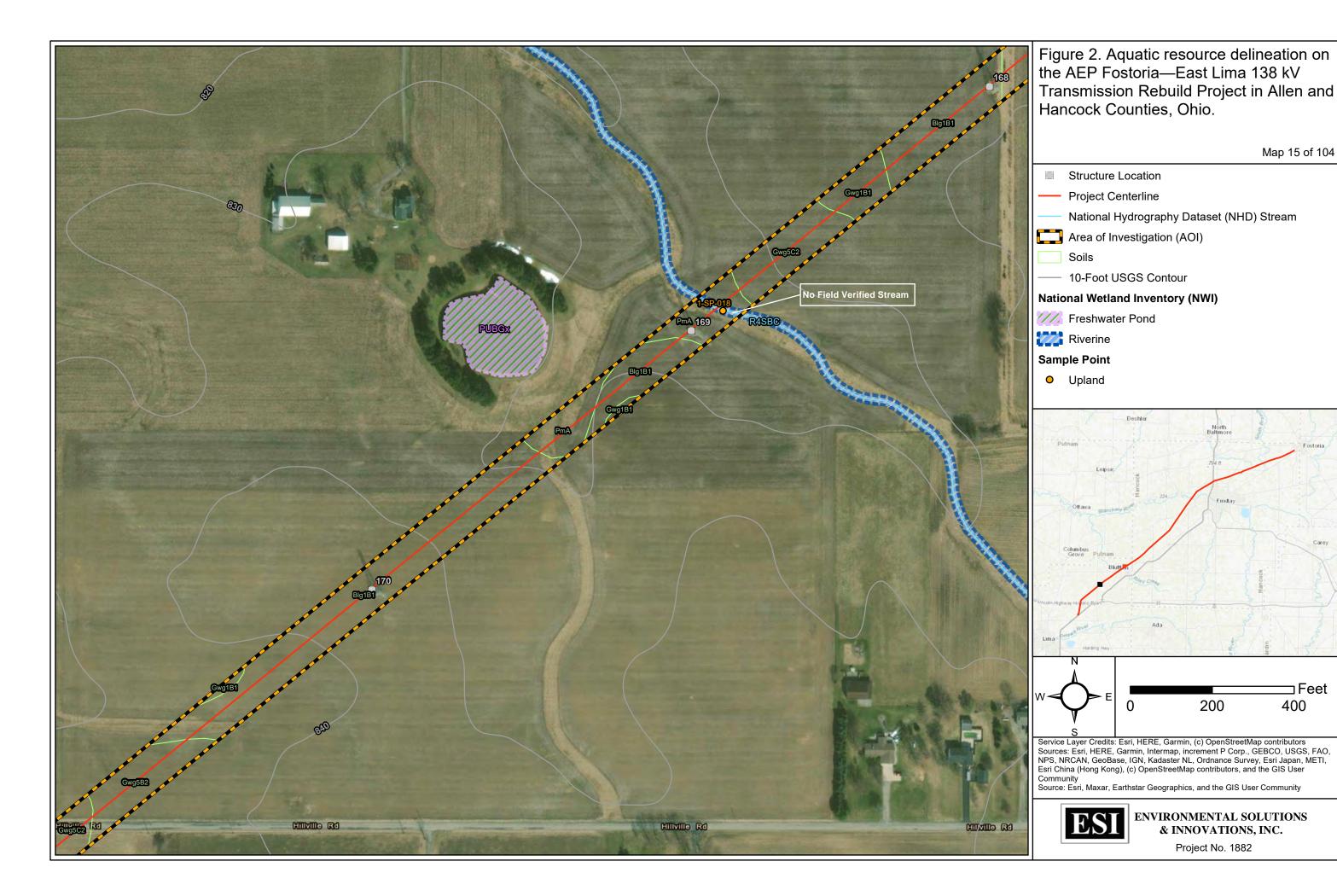
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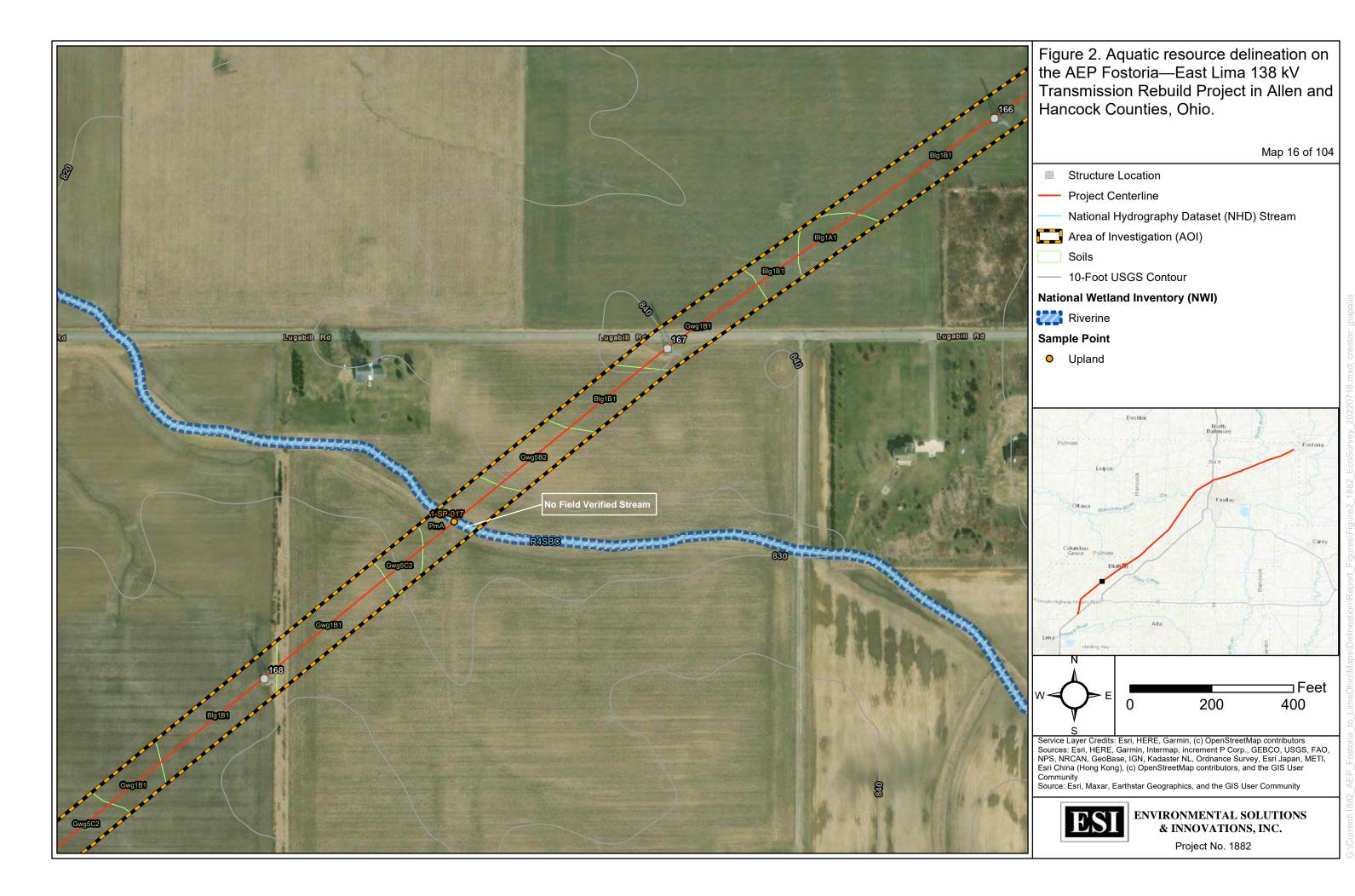


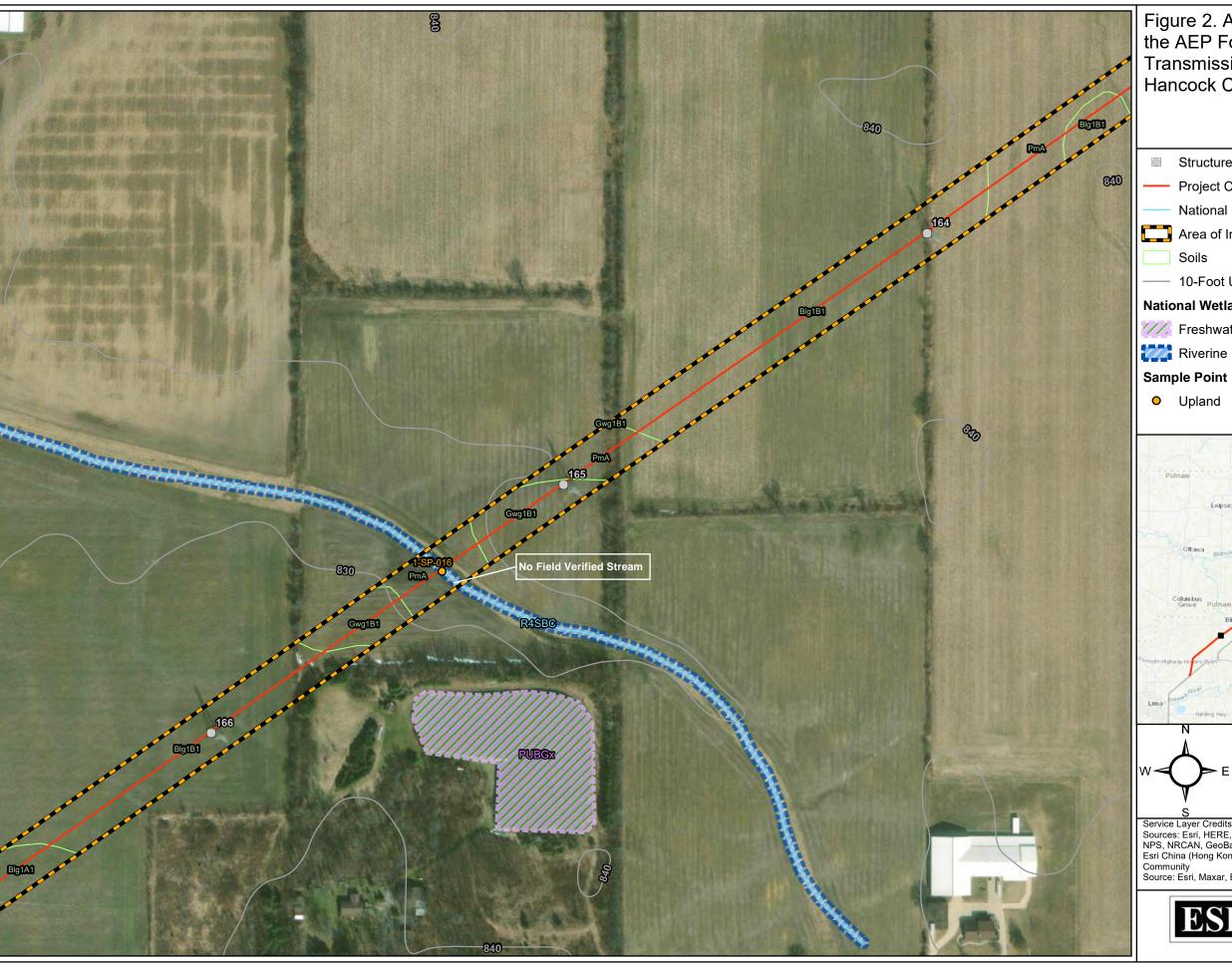












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Structure Location

Project Centerline

National Hydrography Dataset (NHD) Stream

Area of Investigation (AOI)

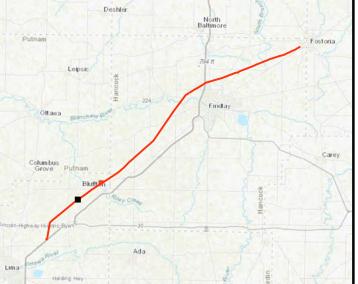
10-Foot USGS Contour

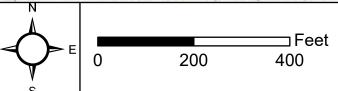
# National Wetland Inventory (NWI)

//// Freshwater Pond

# Sample Point

Upland



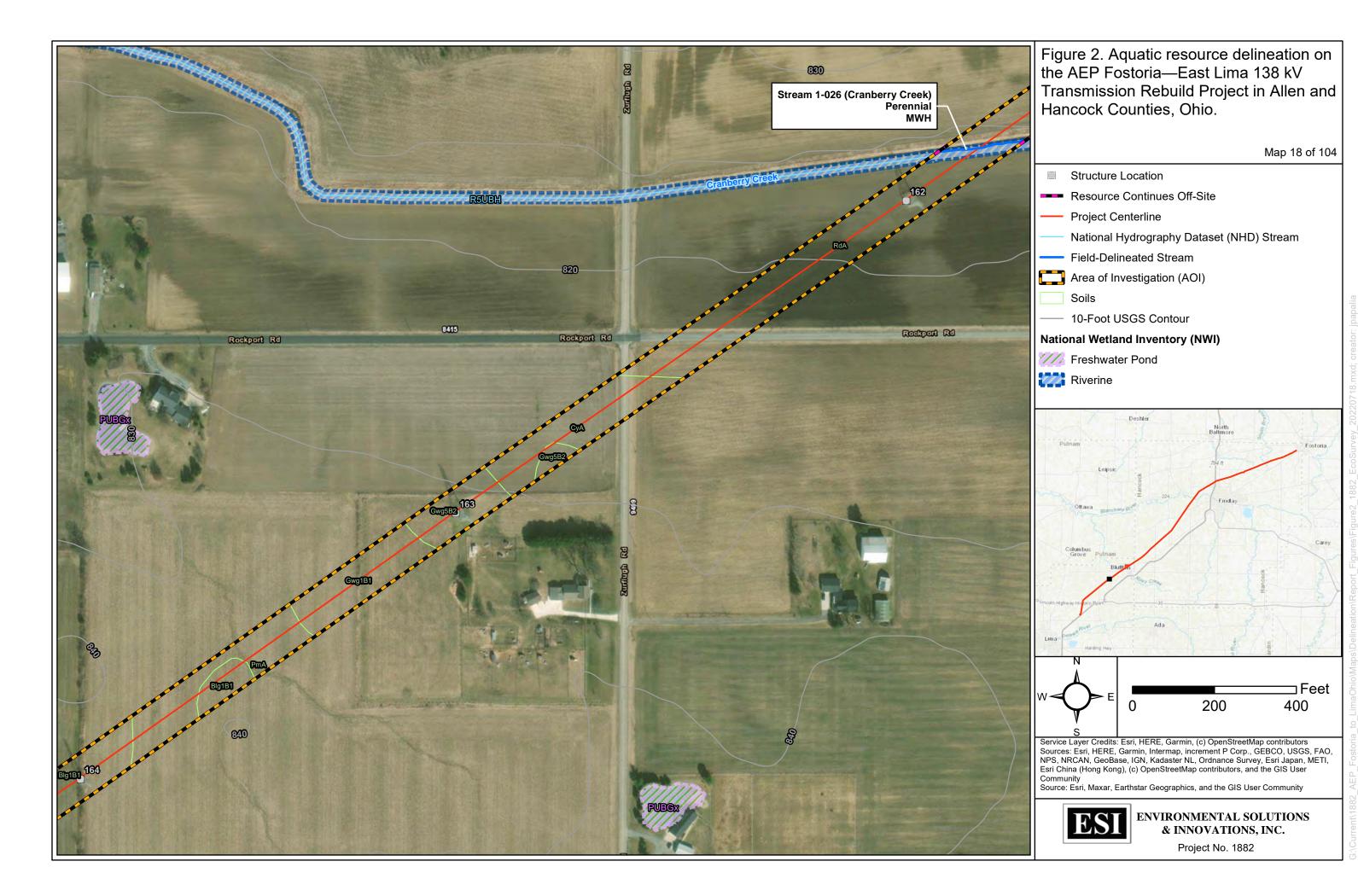


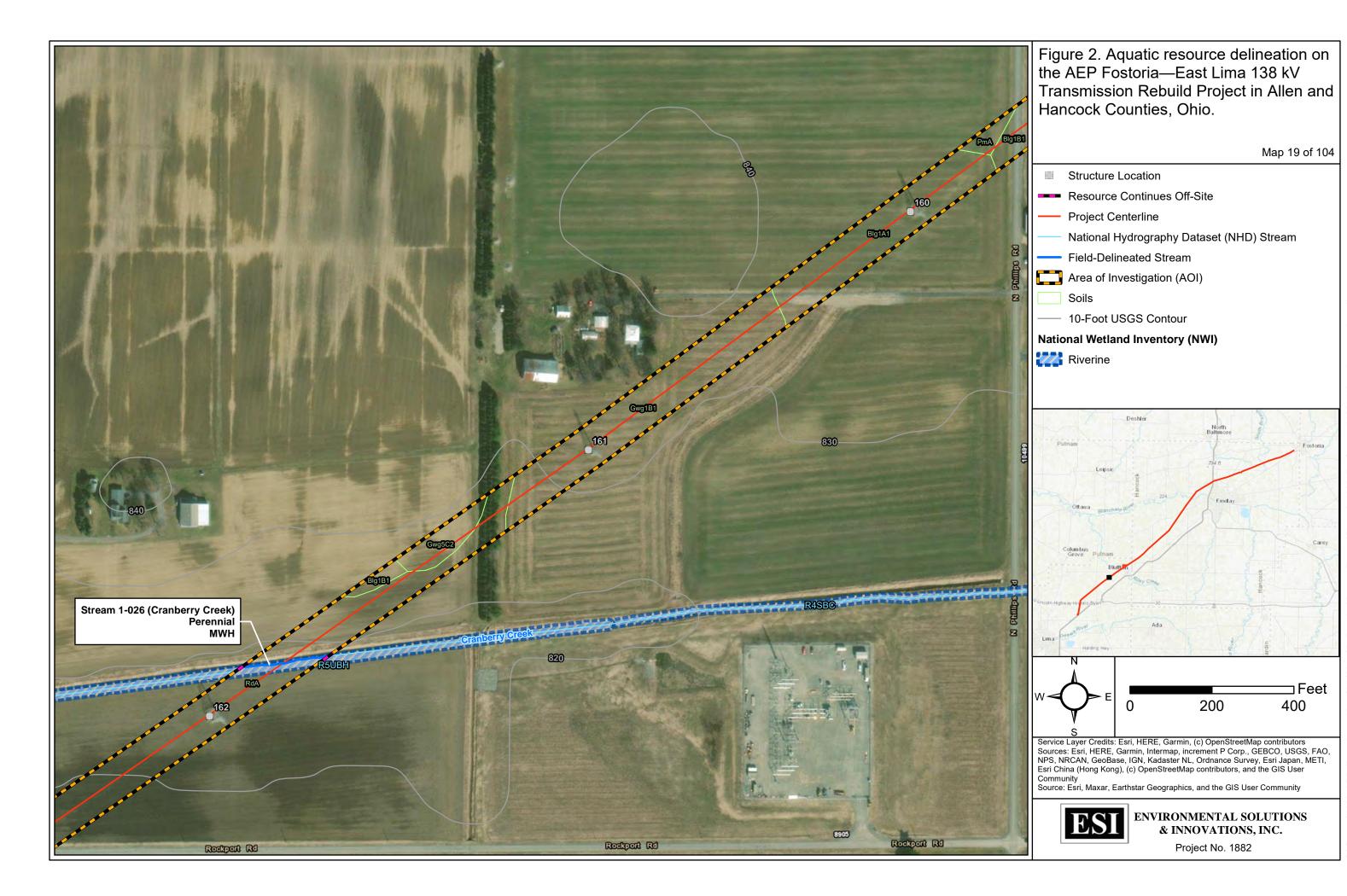
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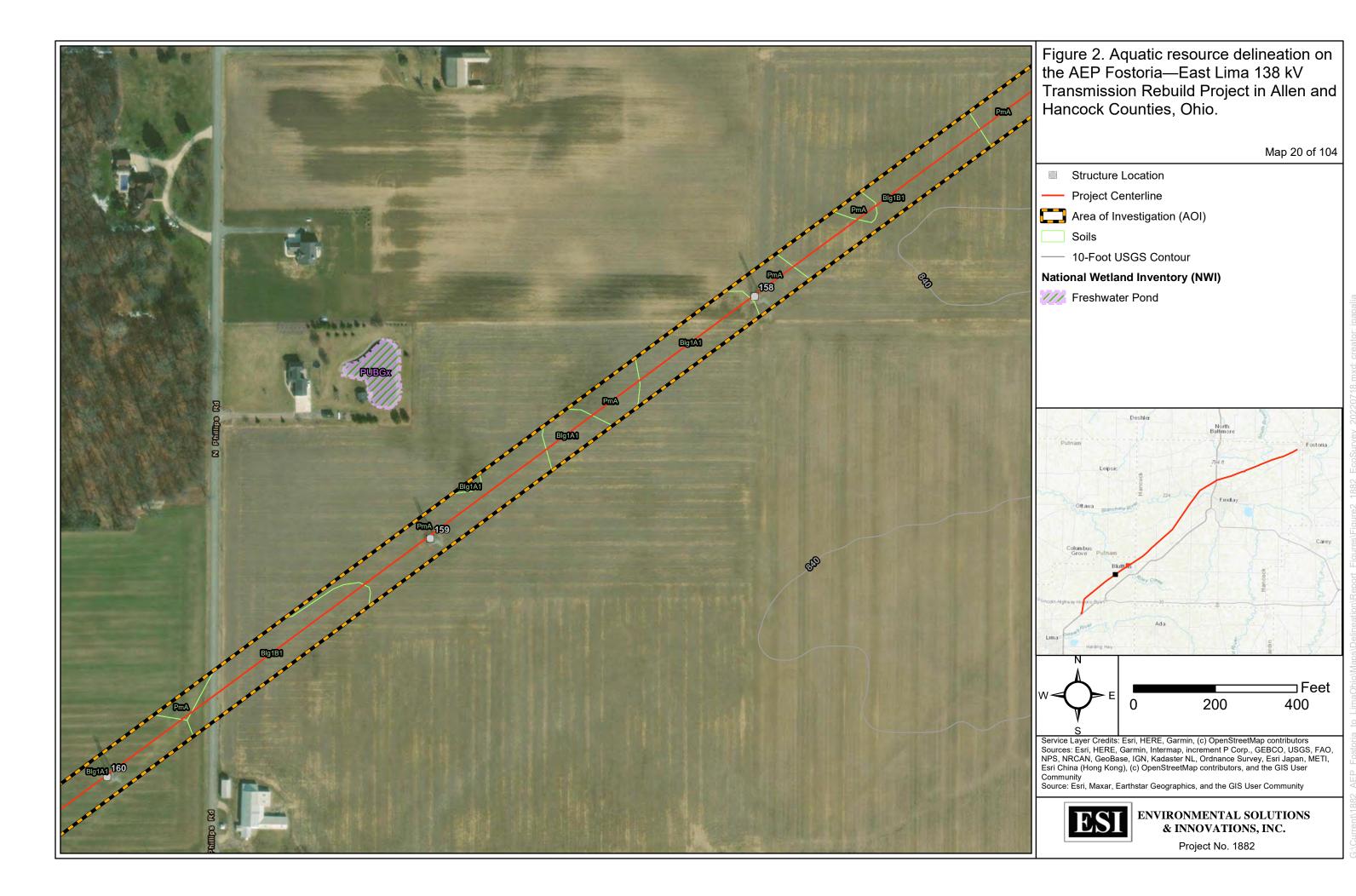
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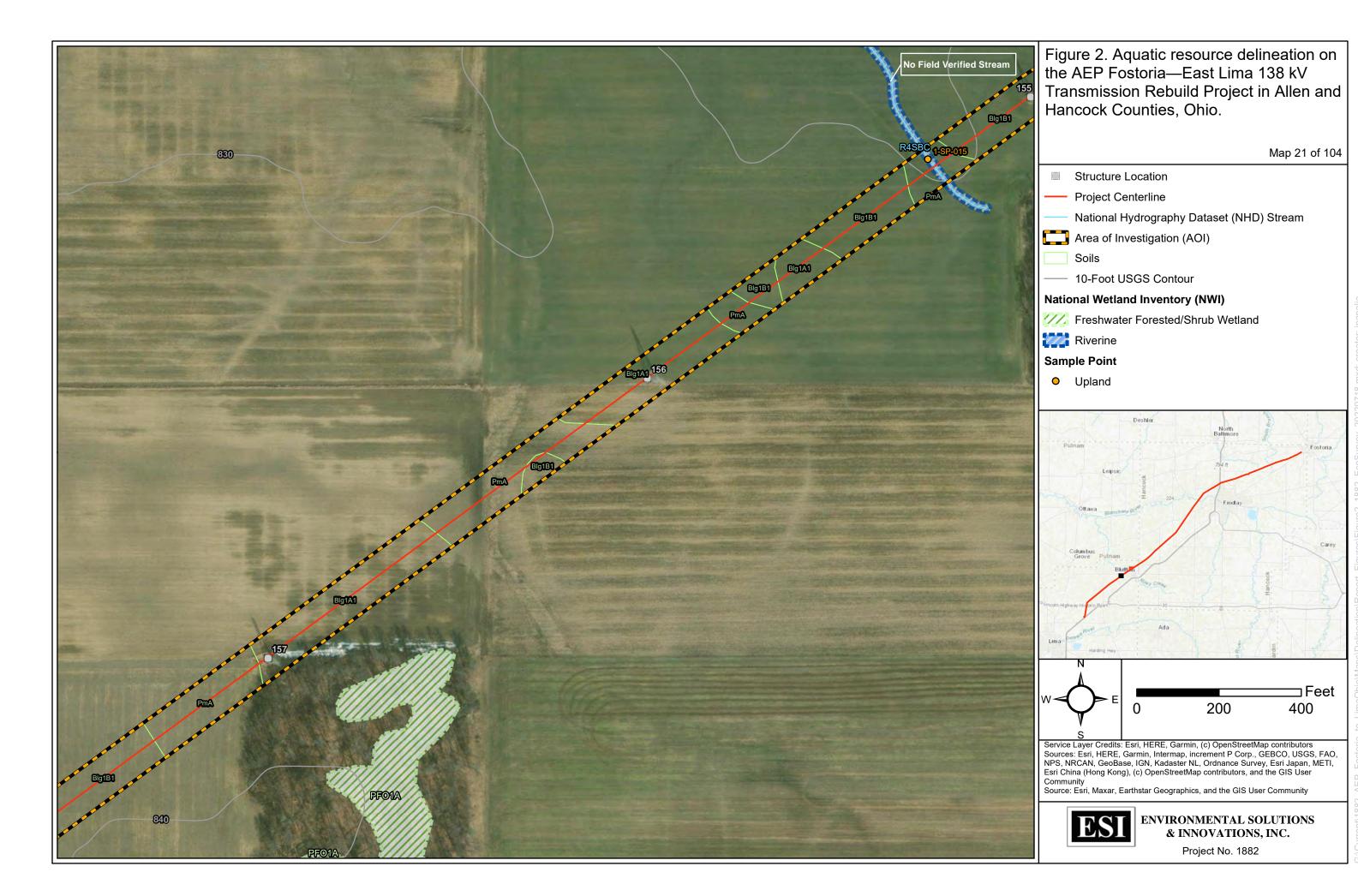


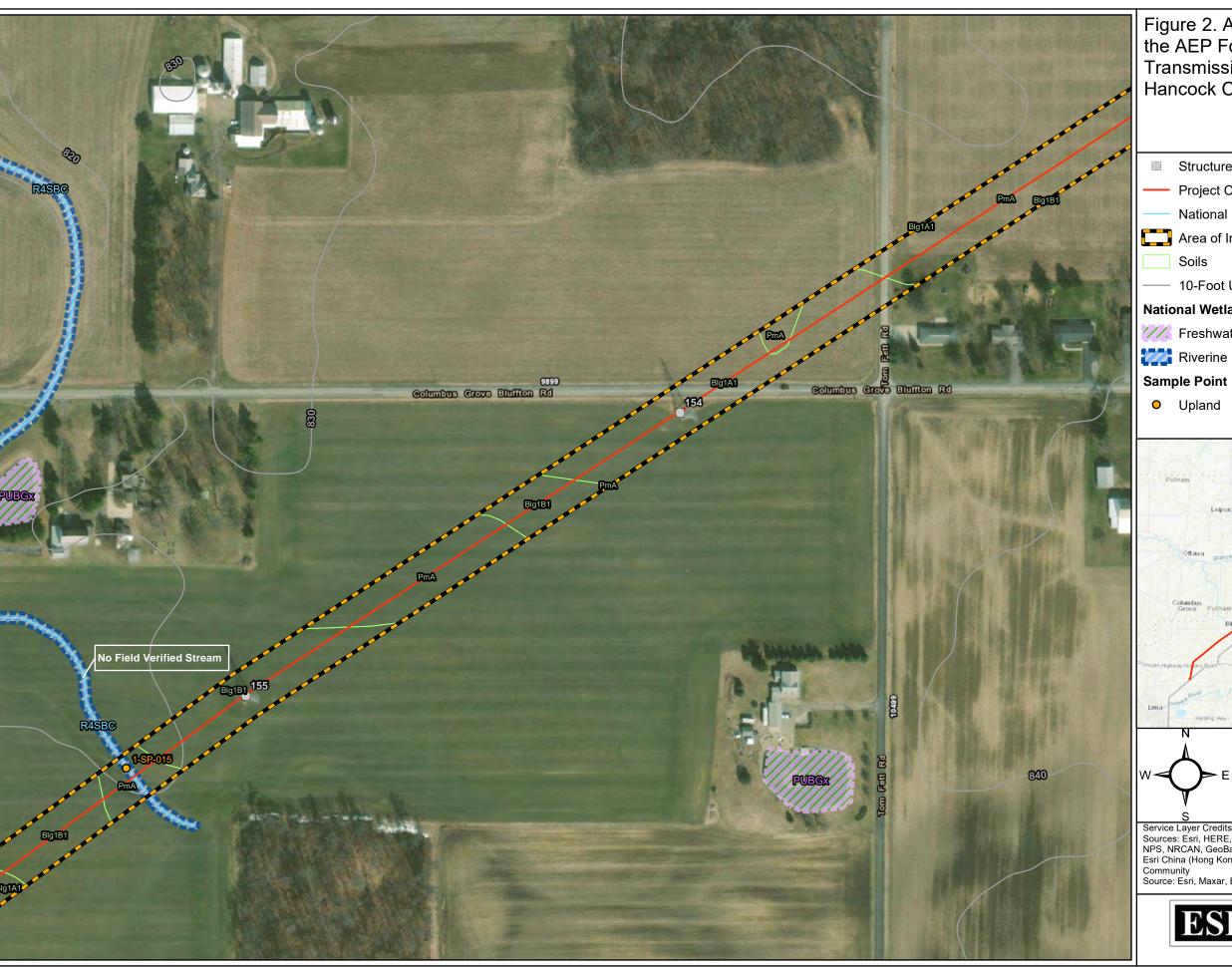
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Map 22 of 104

Structure Location

Project Centerline

National Hydrography Dataset (NHD) Stream

Area of Investigation (AOI)

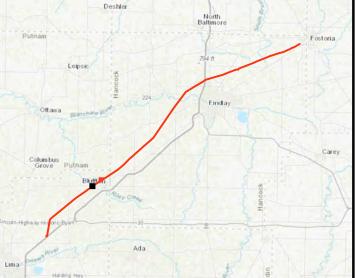
10-Foot USGS Contour

**National Wetland Inventory (NWI)** 

//// Freshwater Pond

Sample Point

Upland



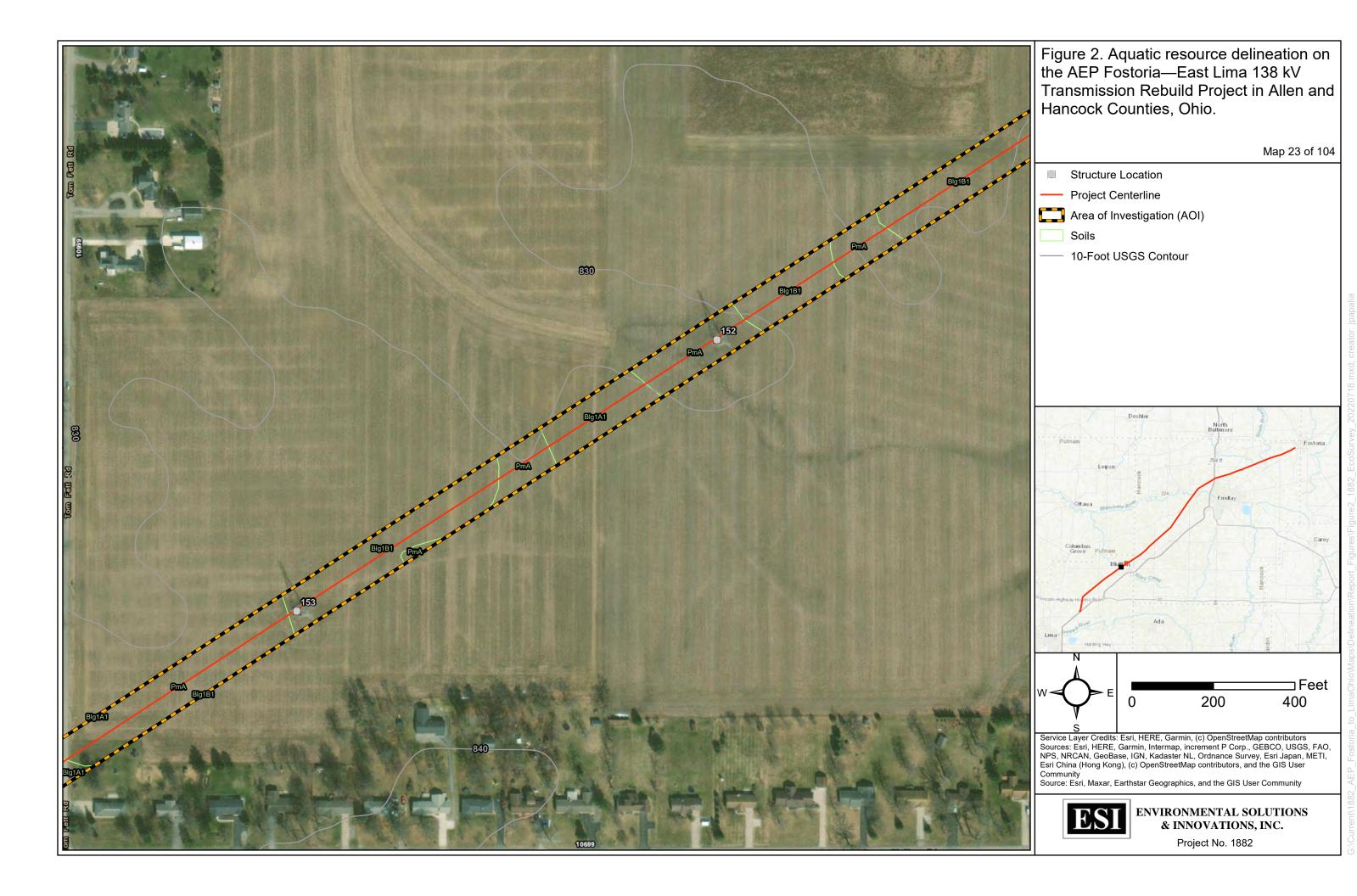


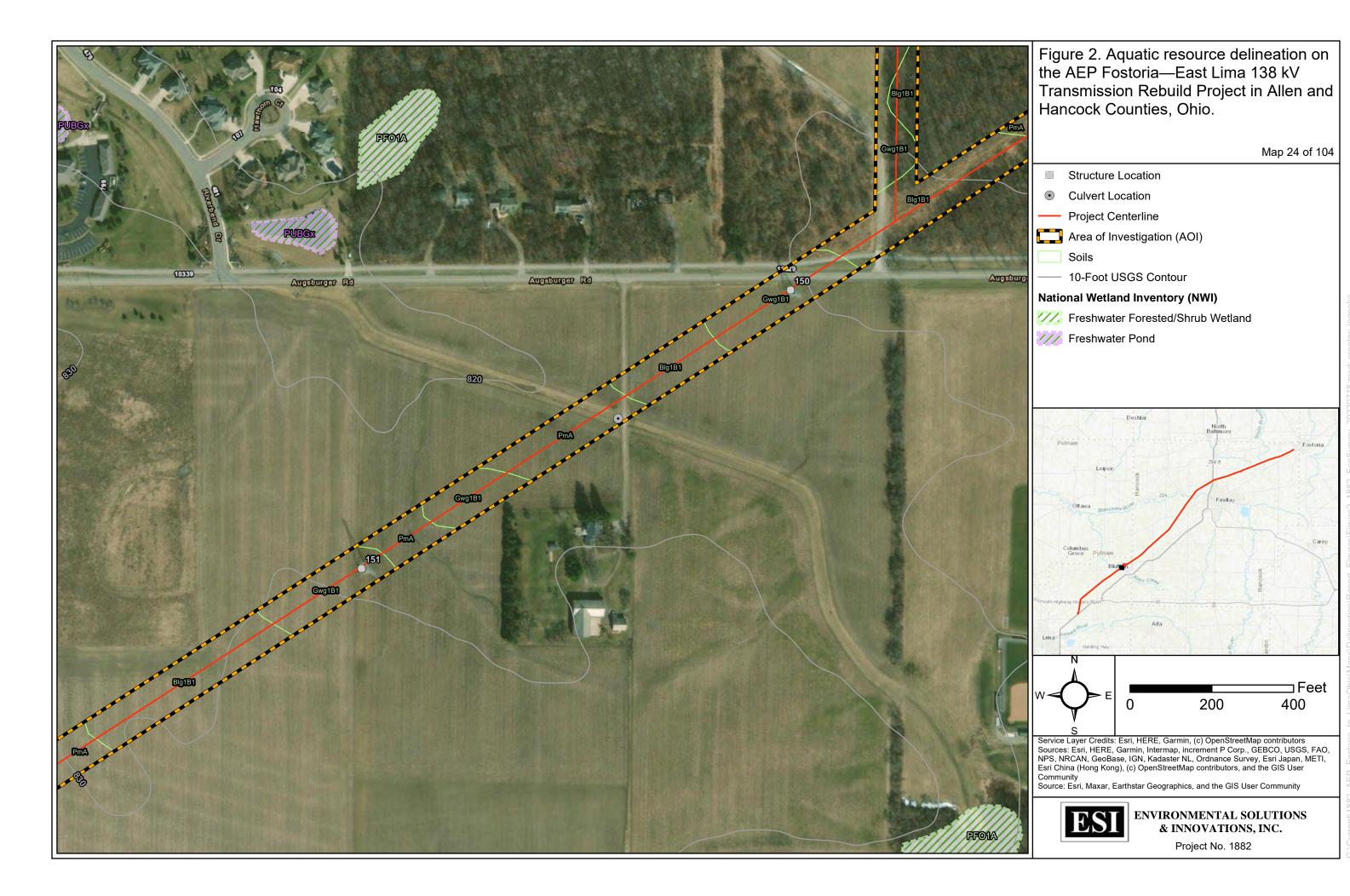
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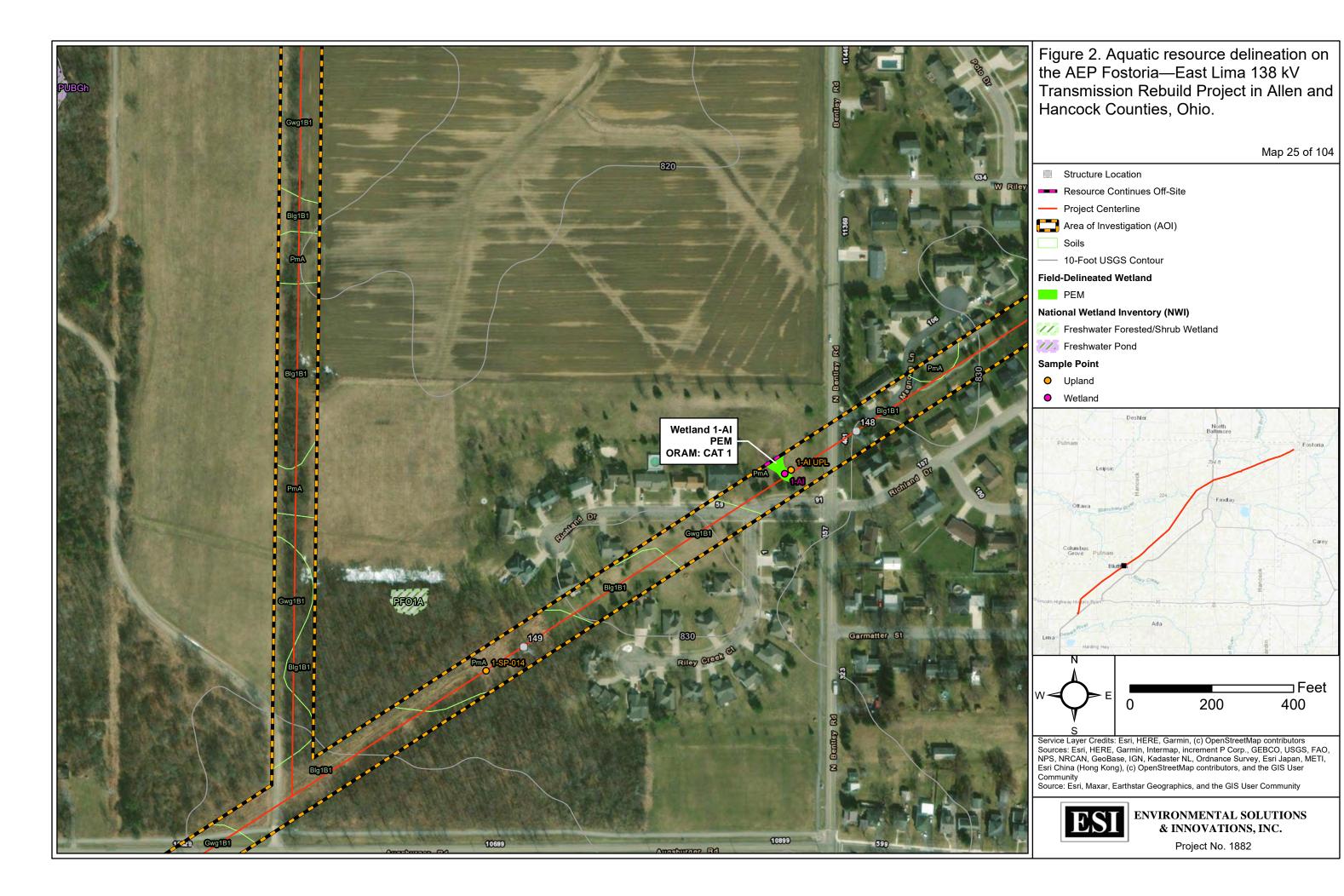
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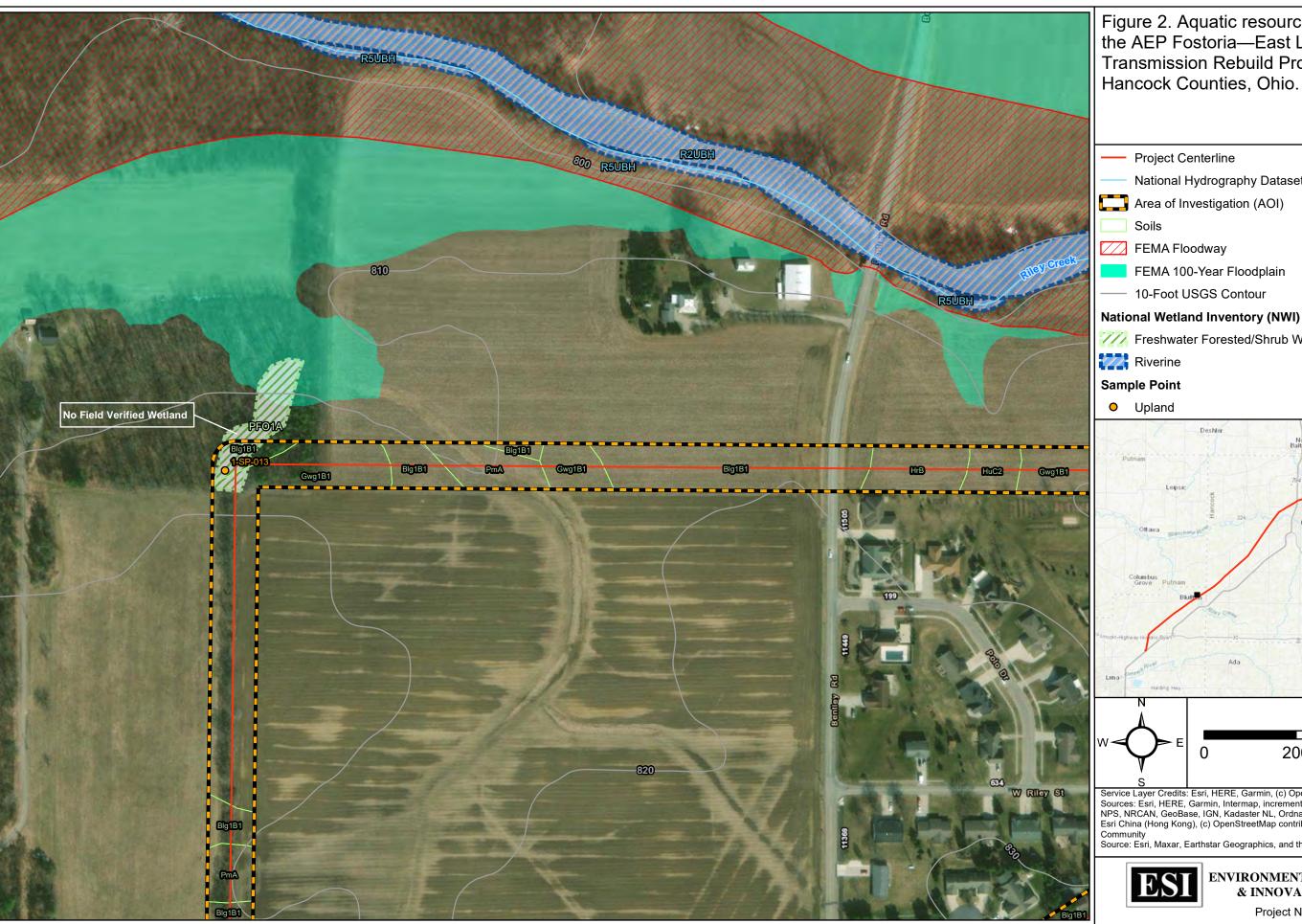
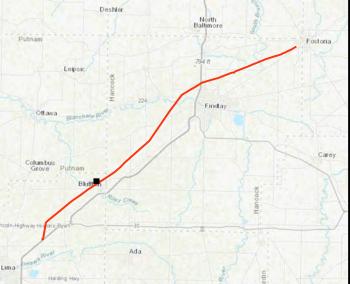


Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio.

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National Hydrography Dataset (NHD) Stream

//// Freshwater Forested/Shrub Wetland



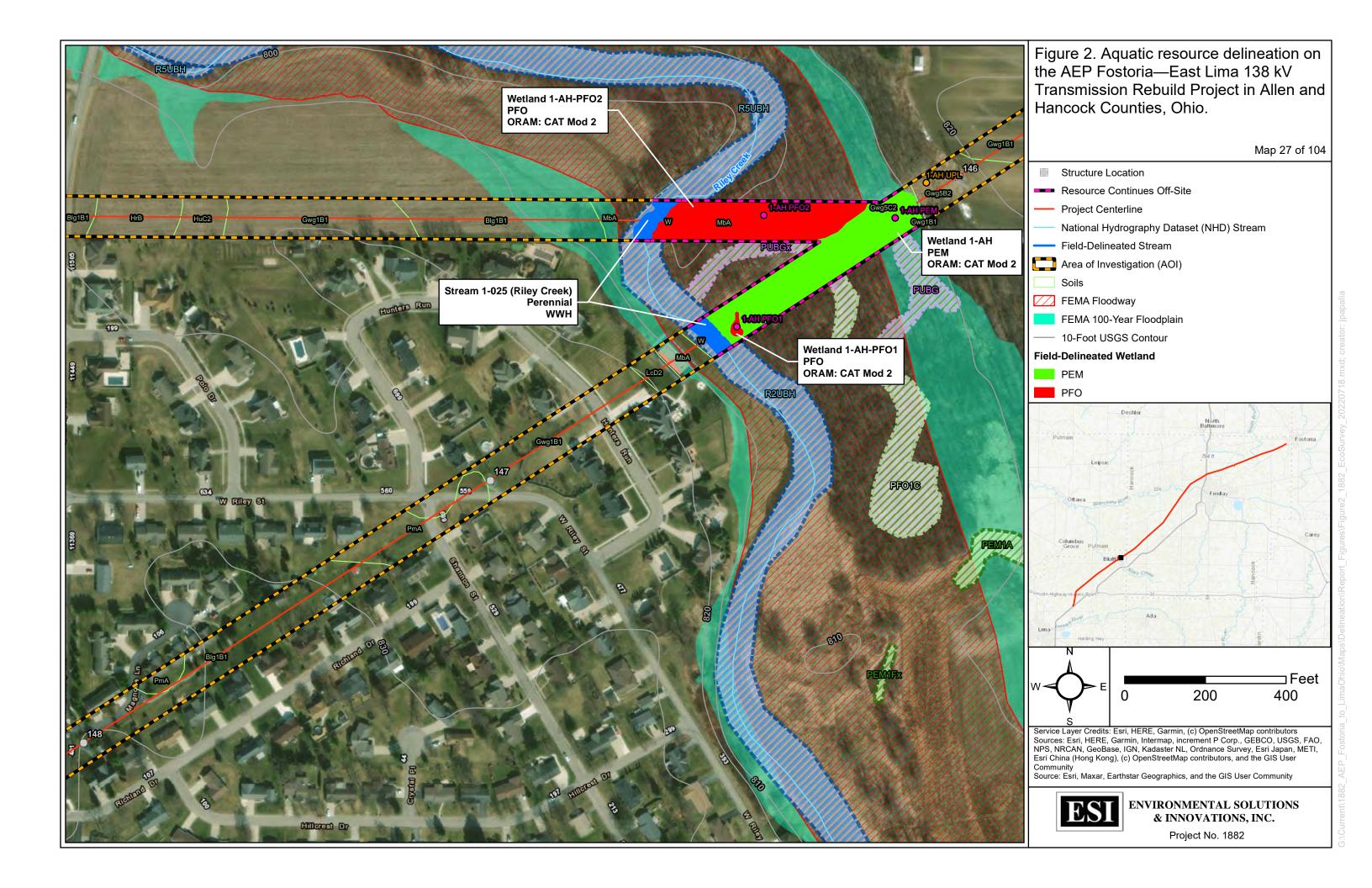


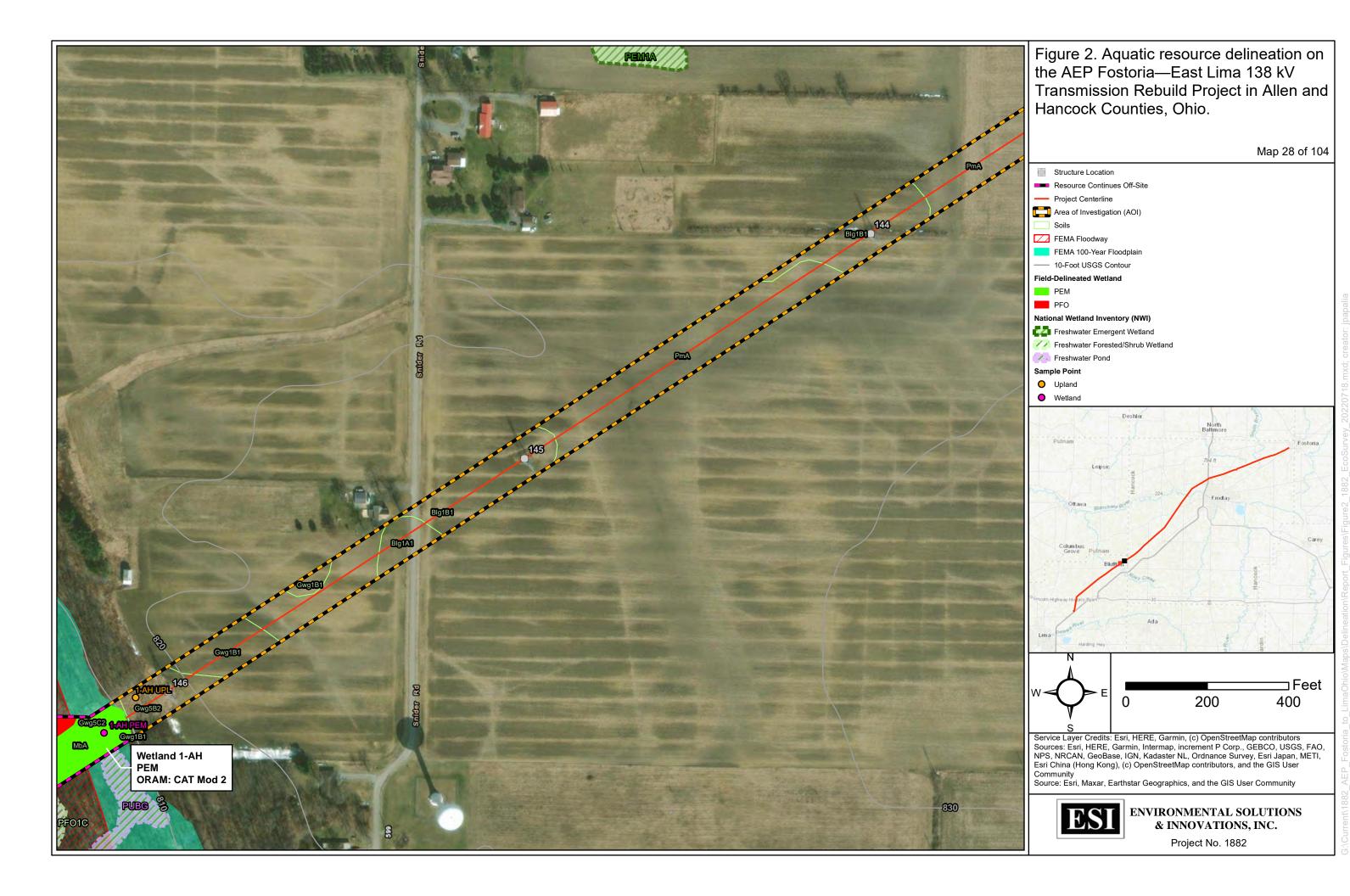
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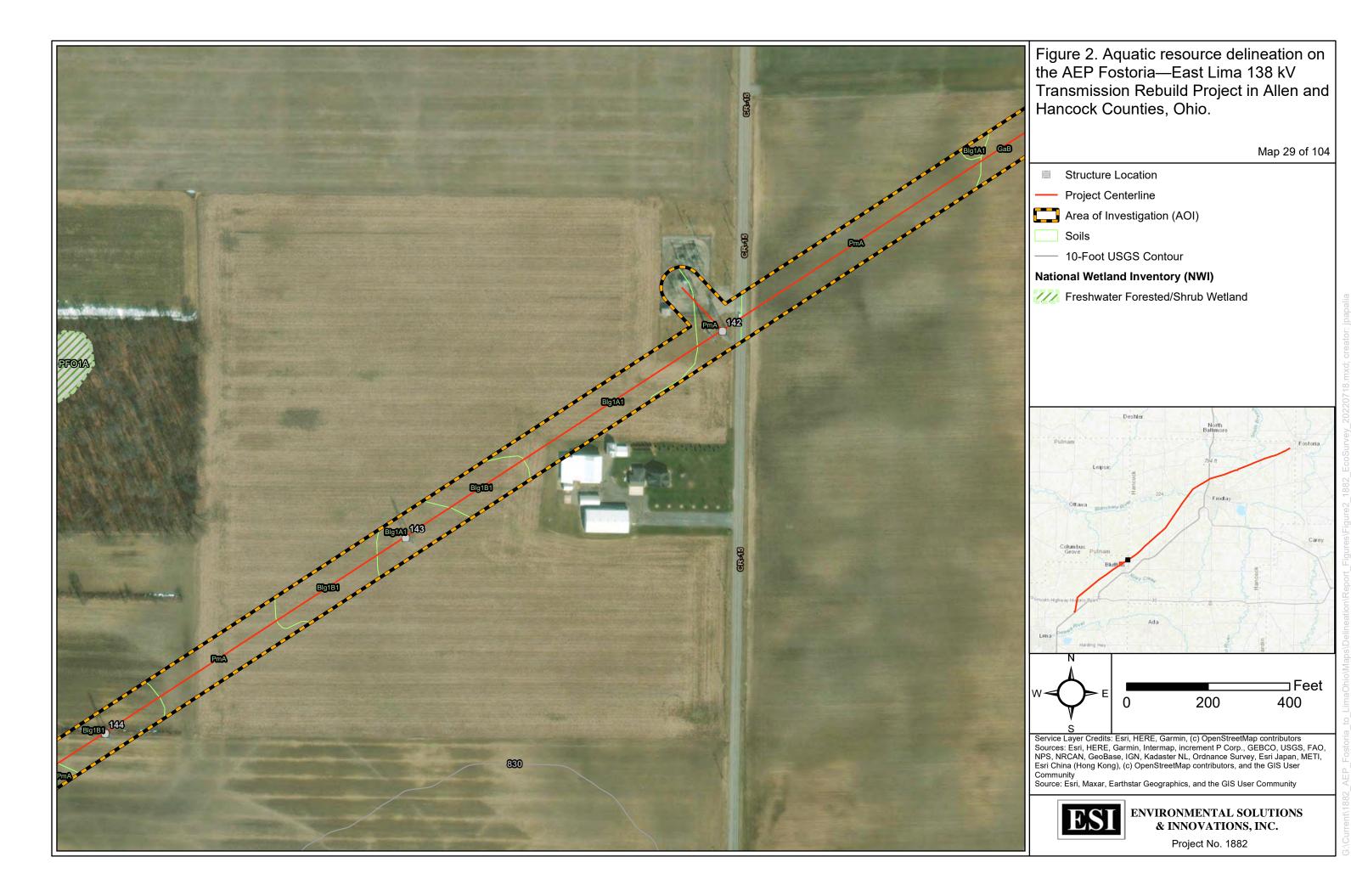
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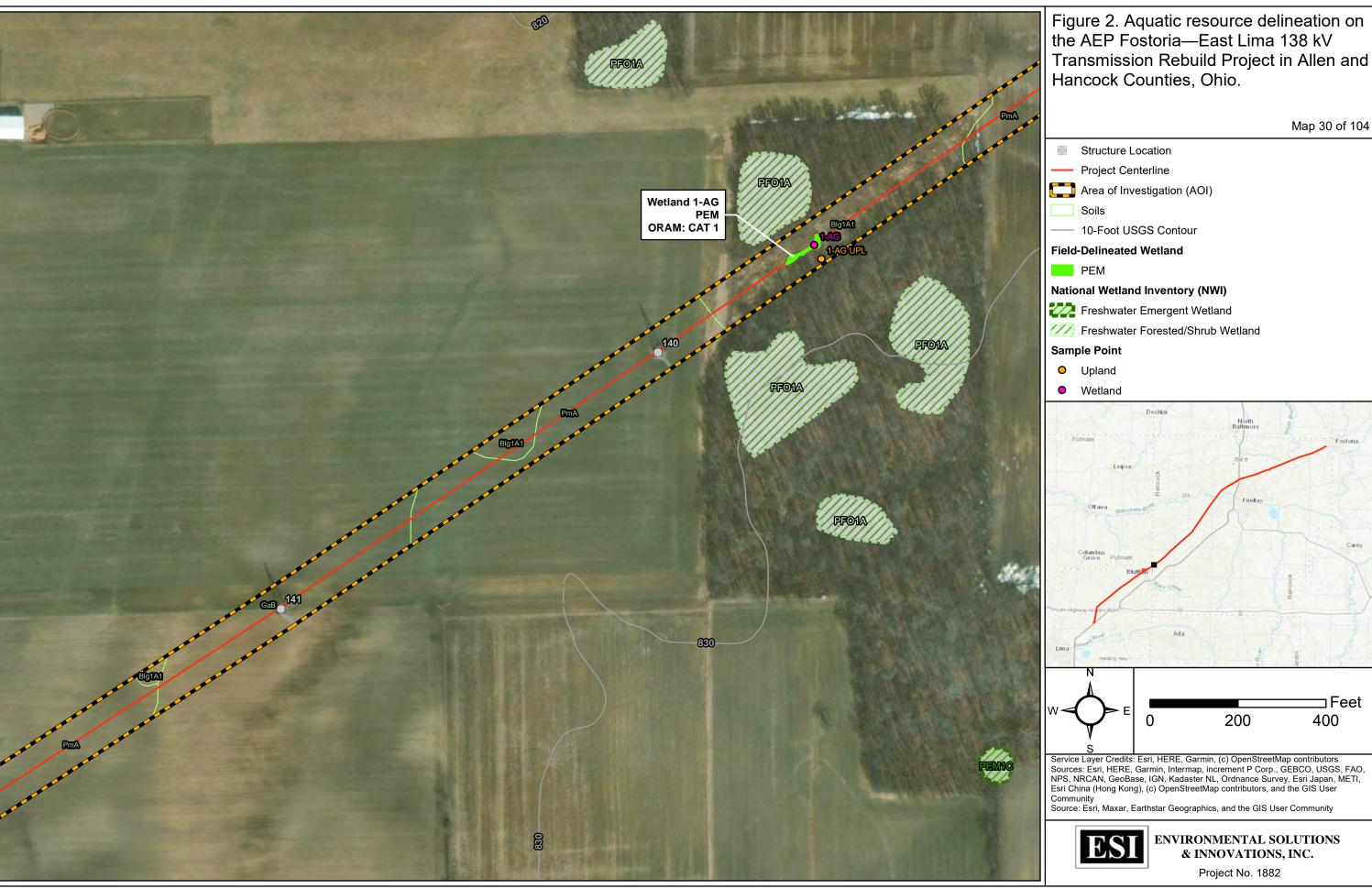
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Project No. 1882



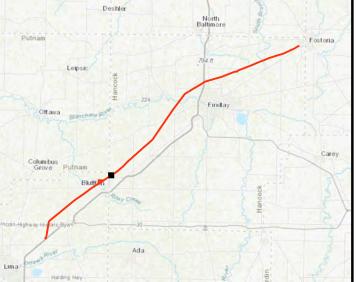


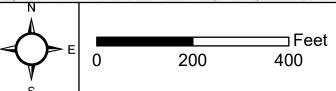




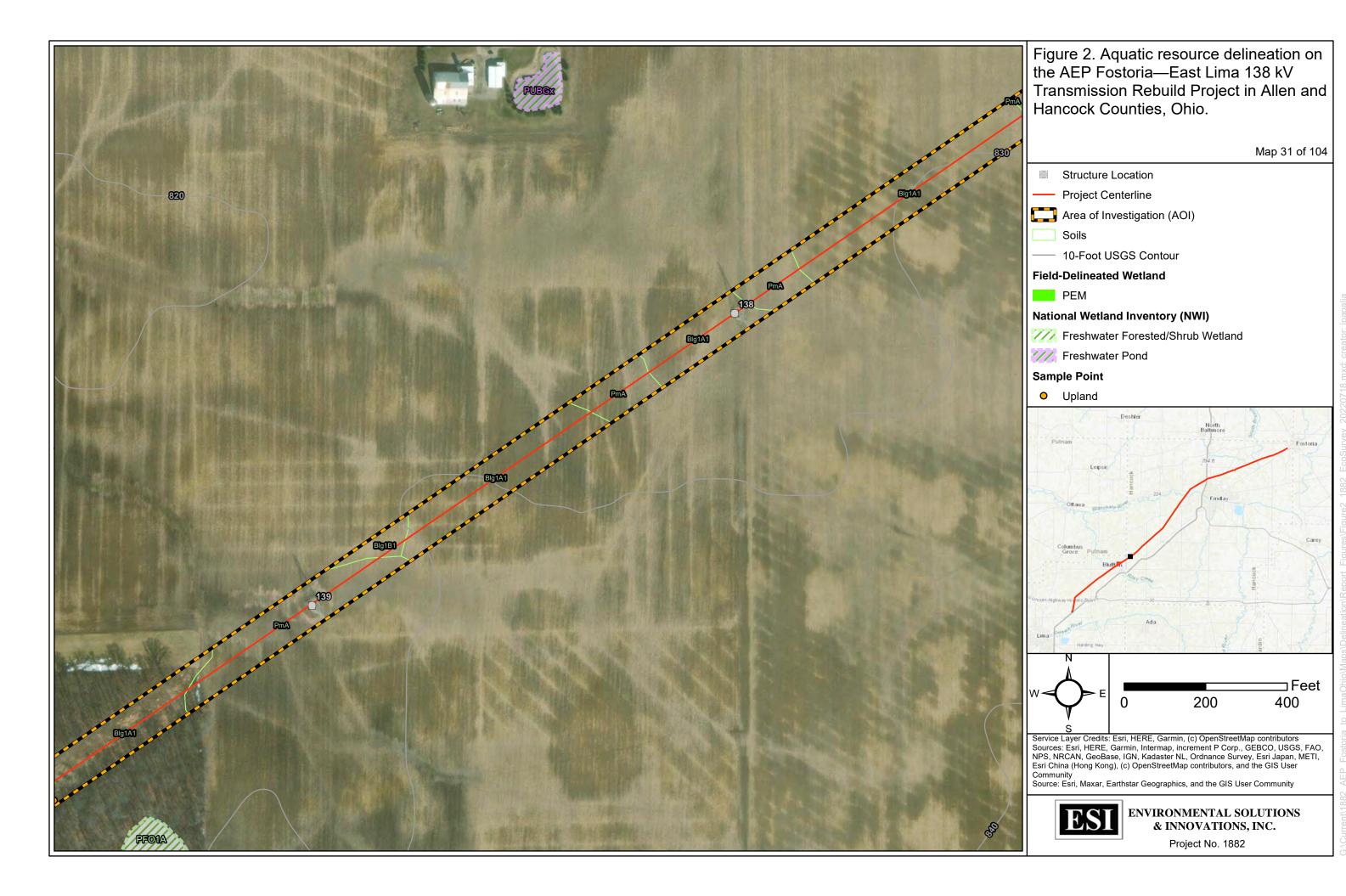
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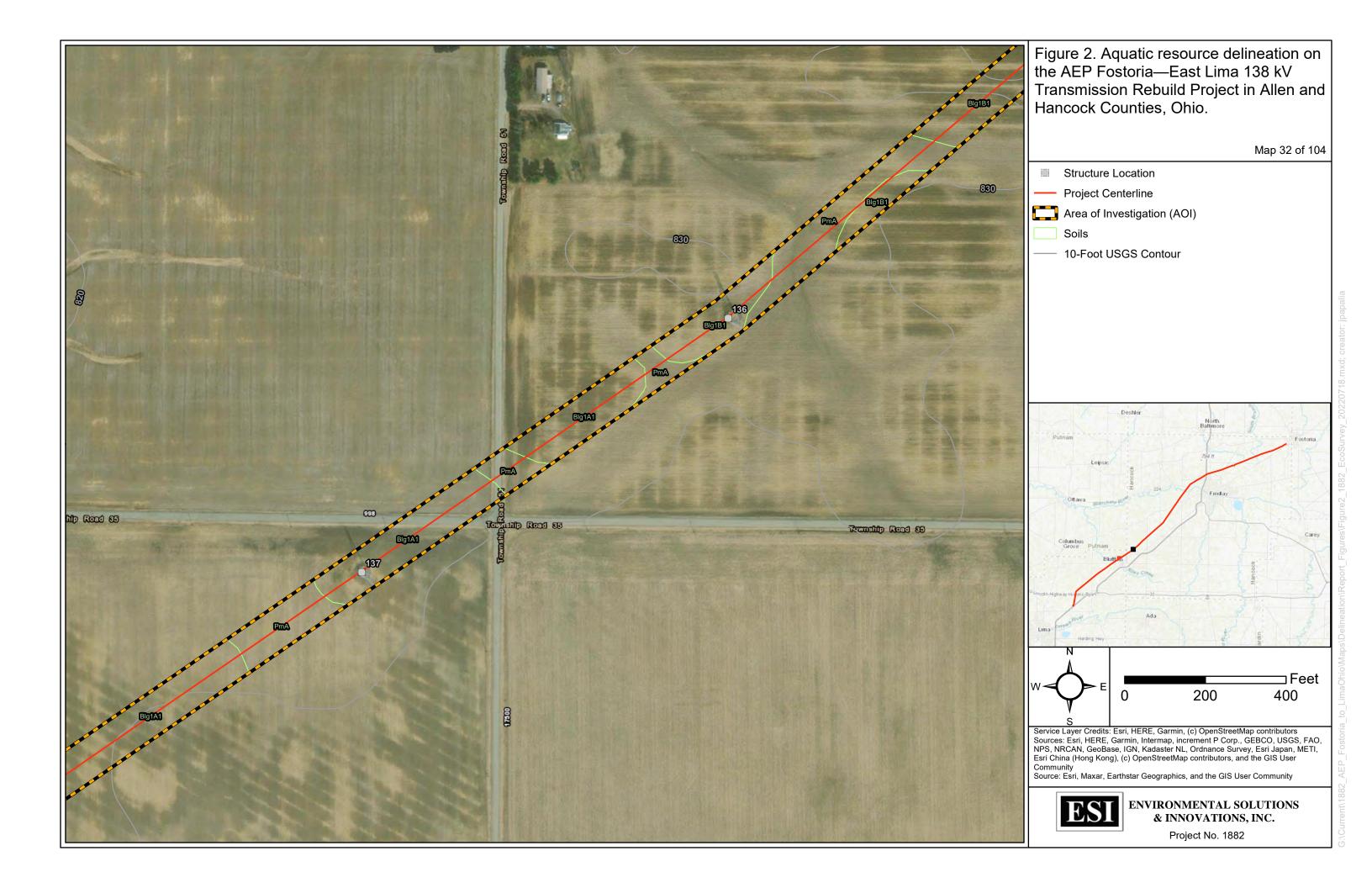
Map 30 of 104

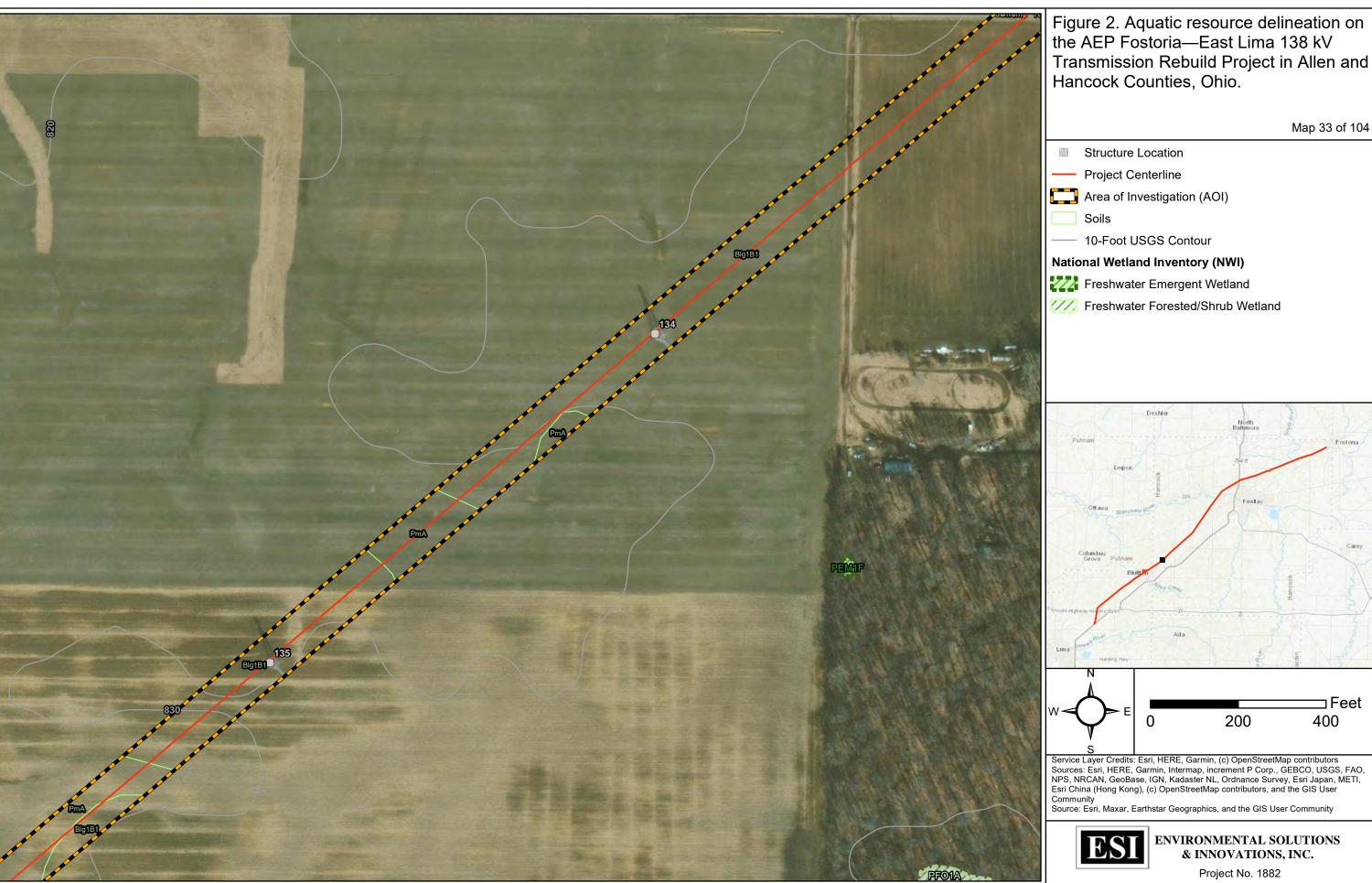




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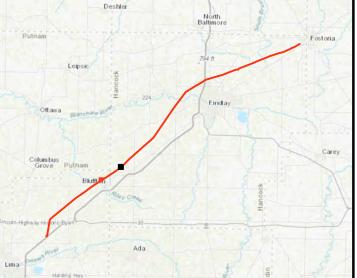






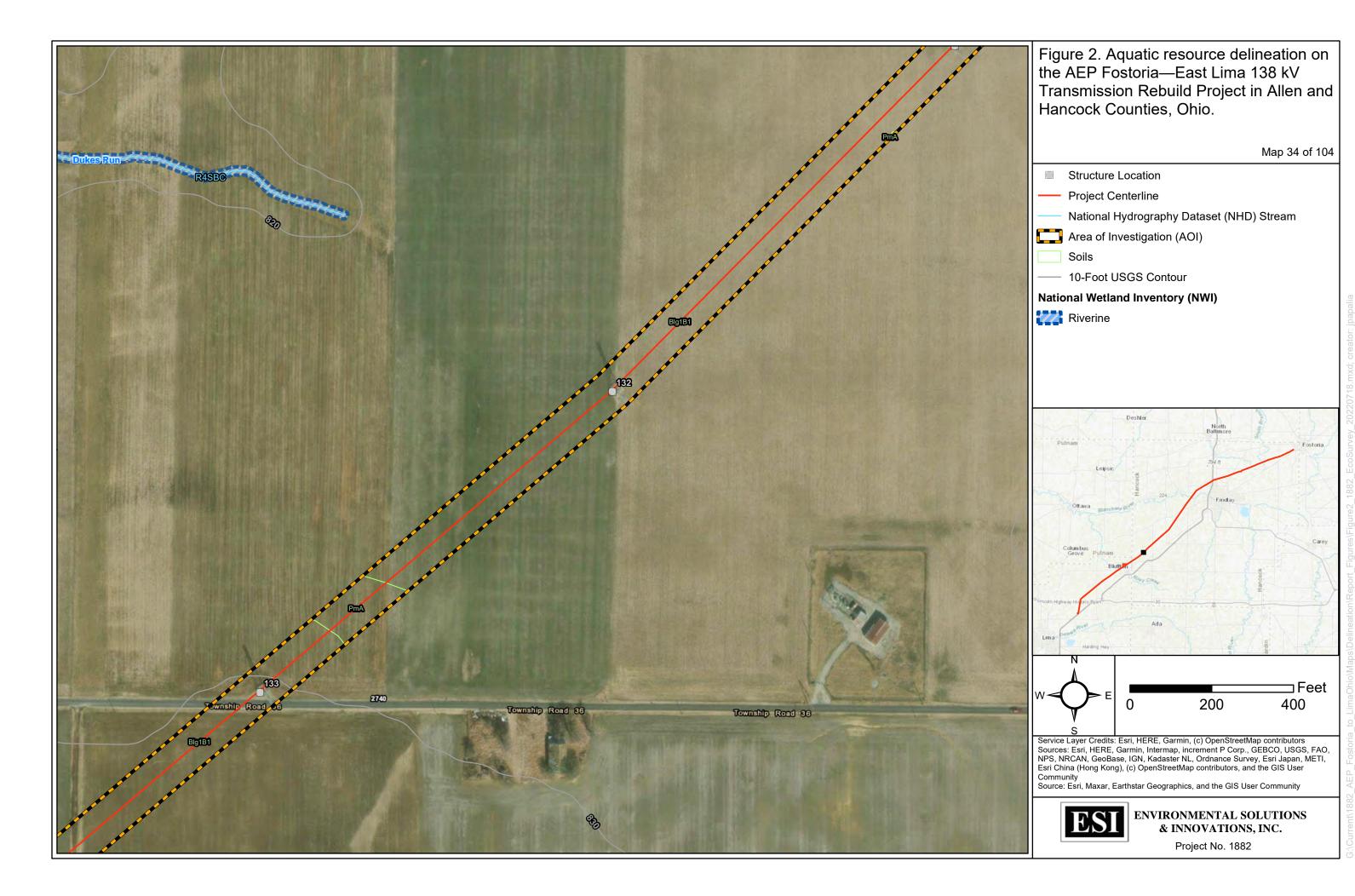
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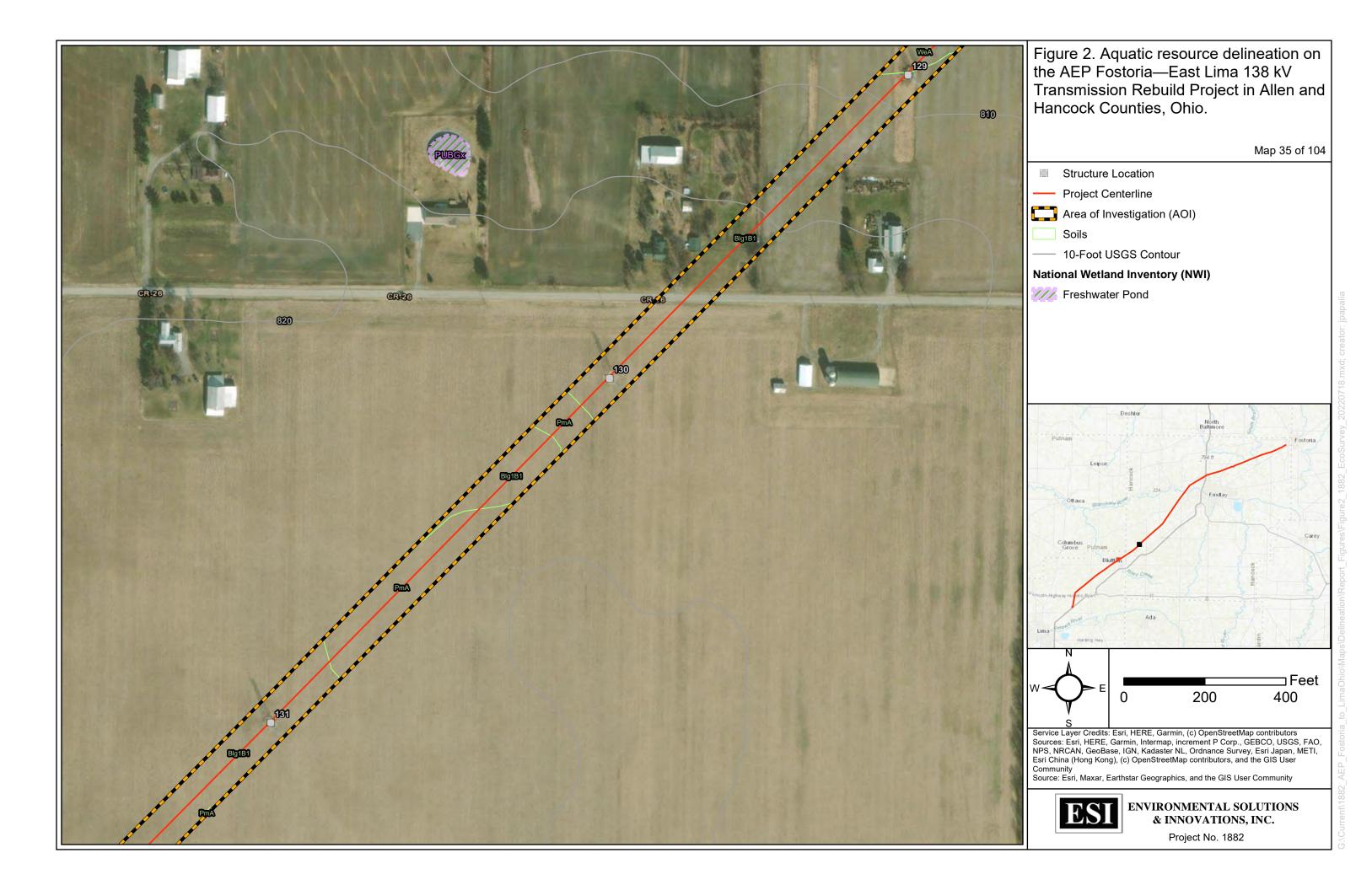
Map 33 of 104



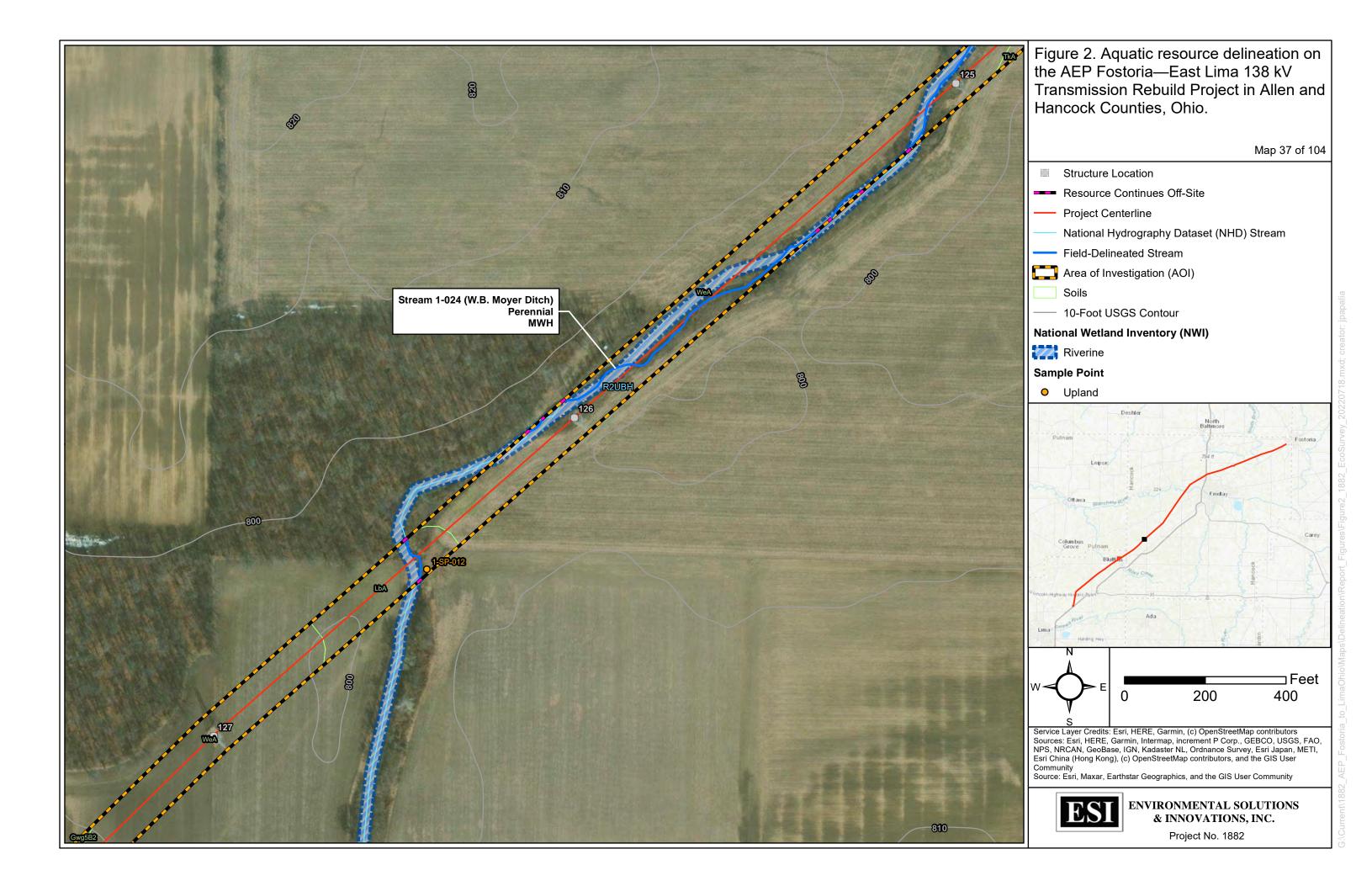


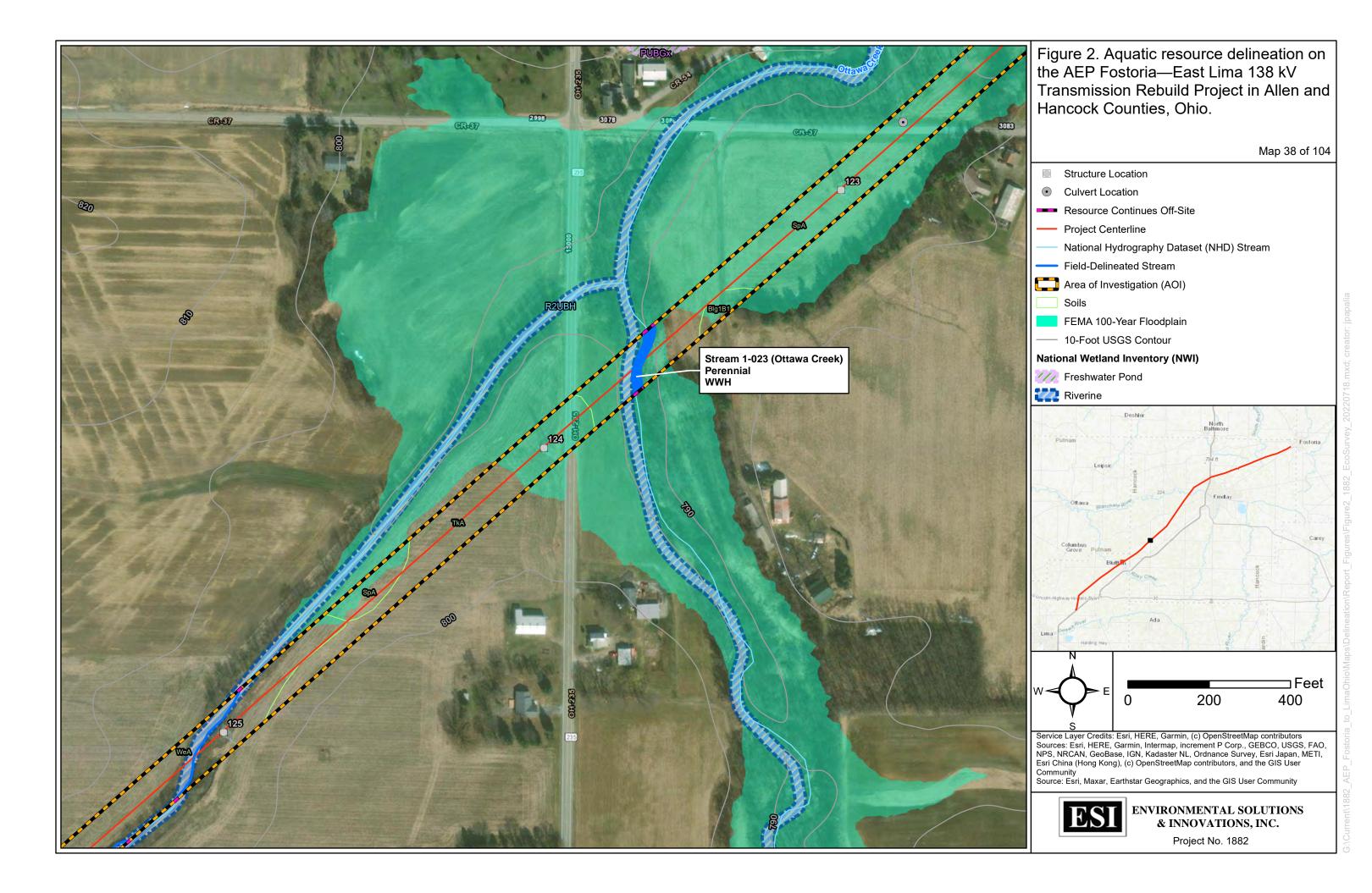
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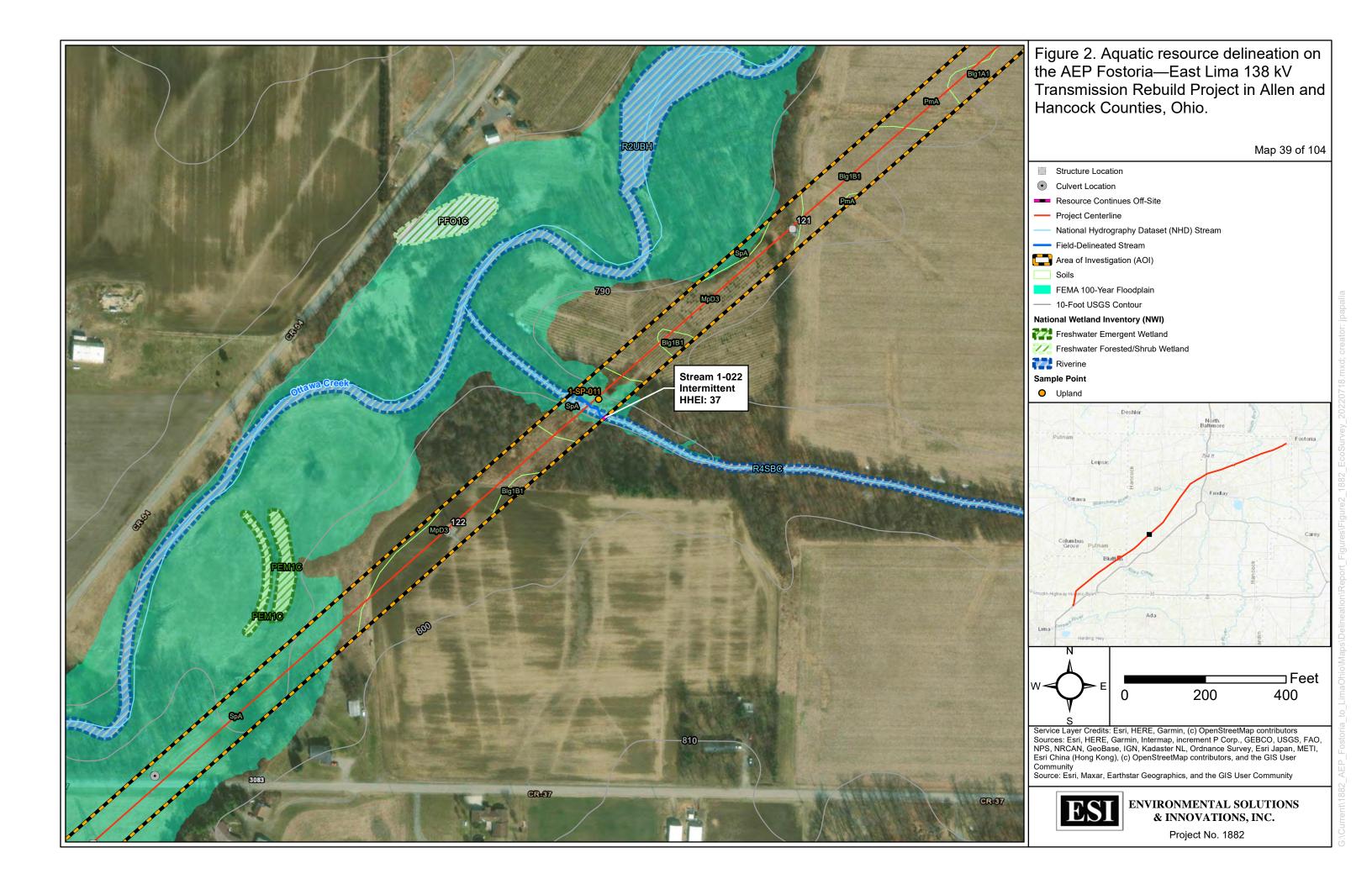


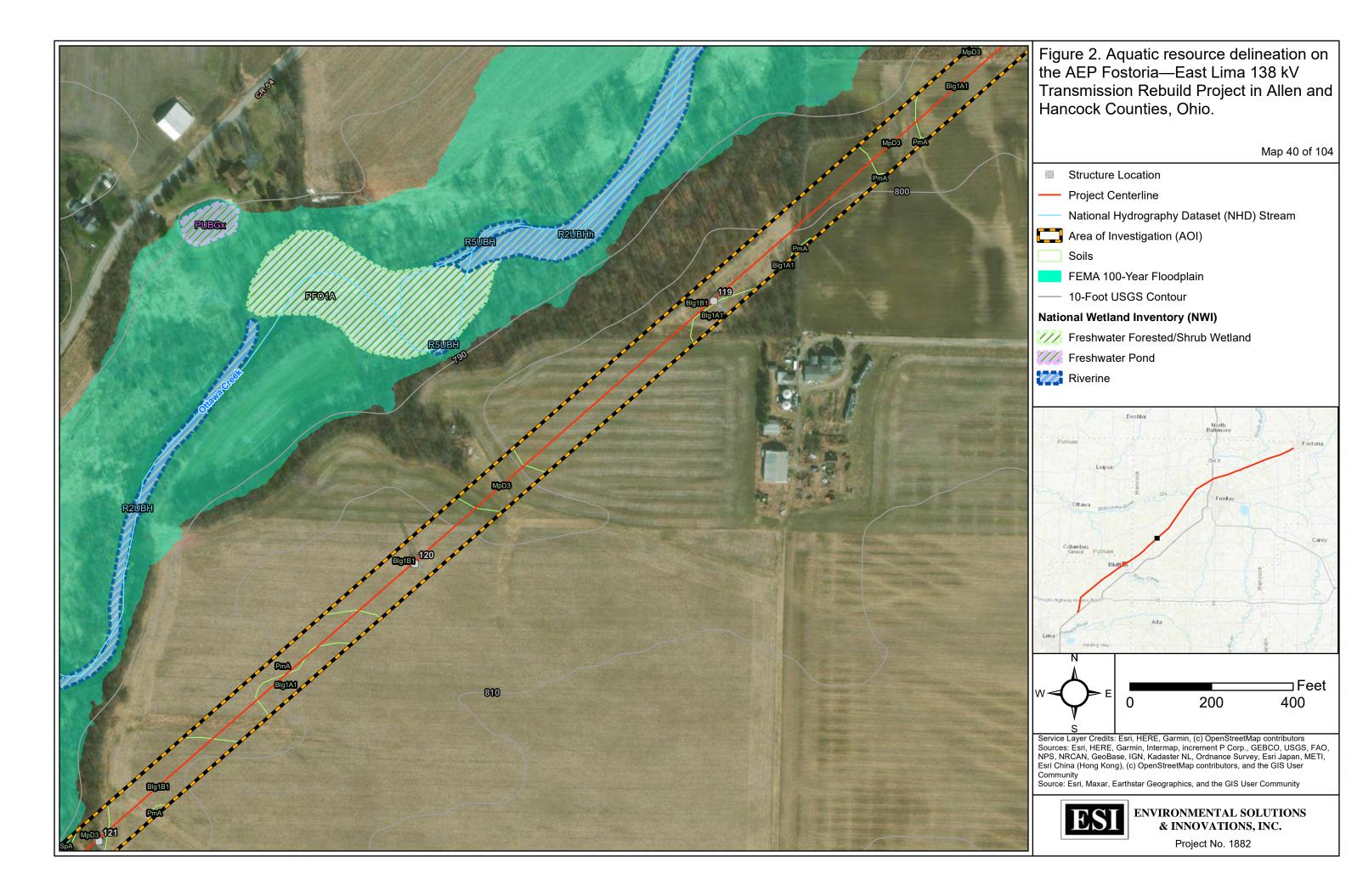


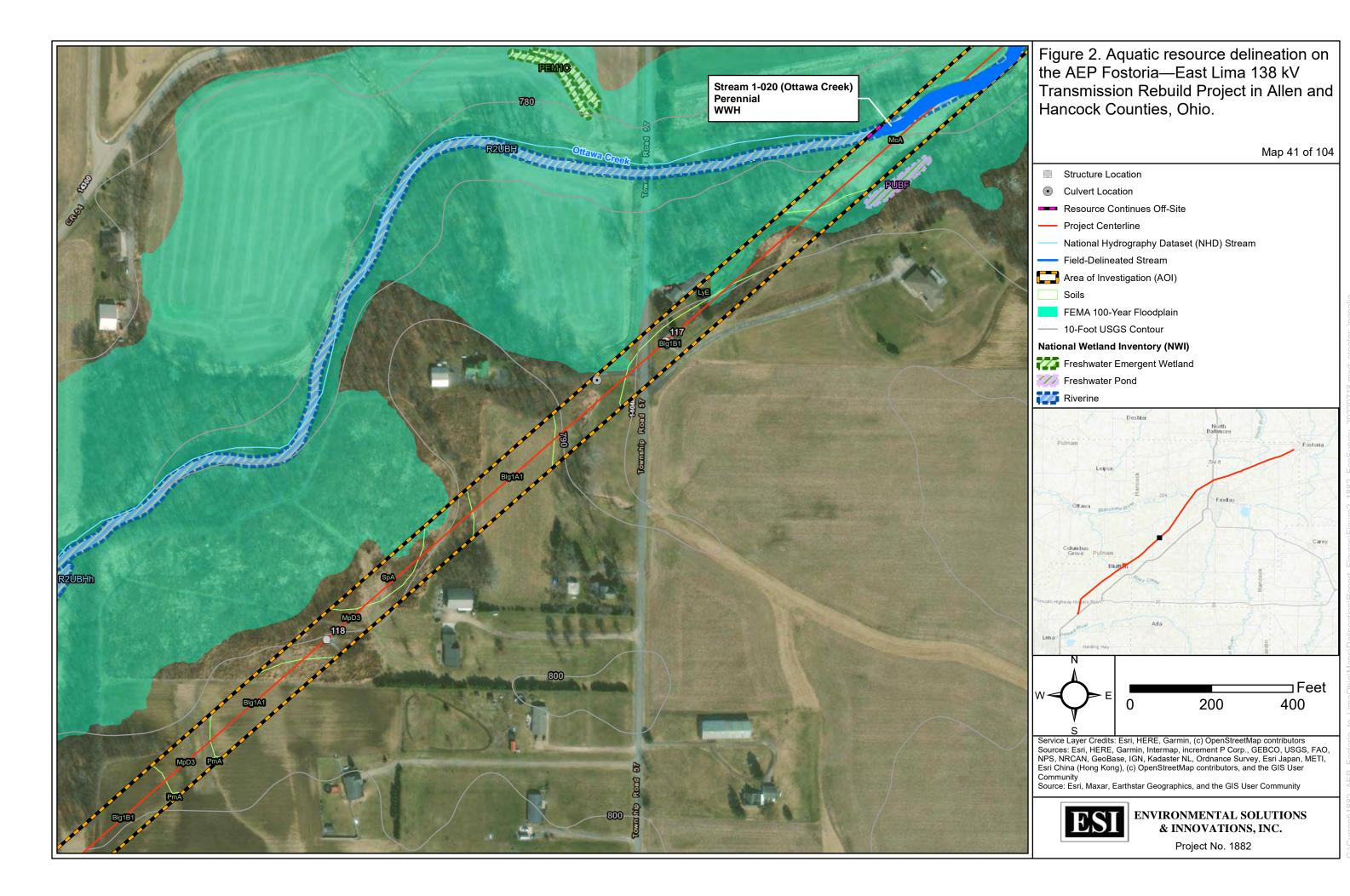


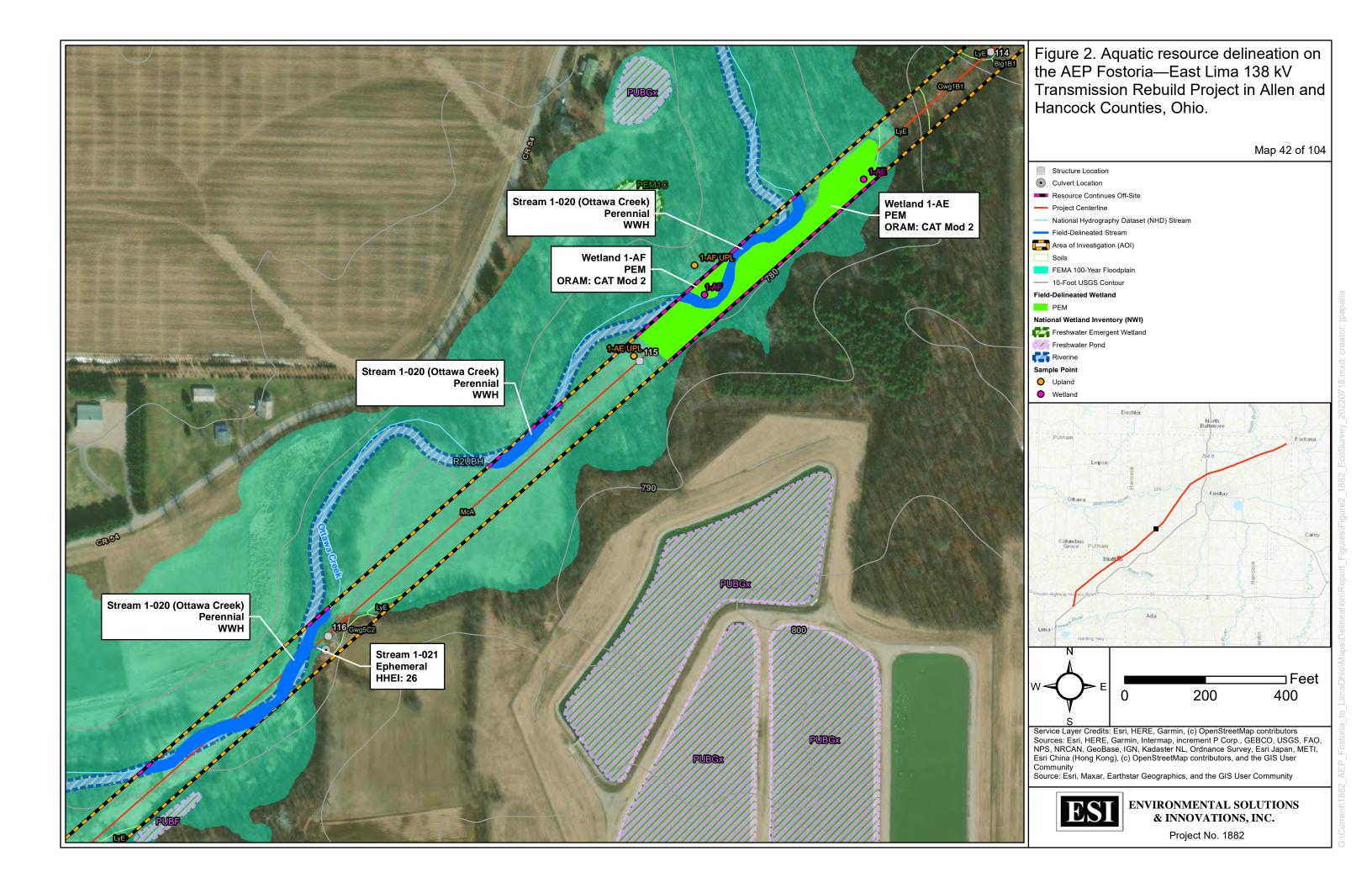


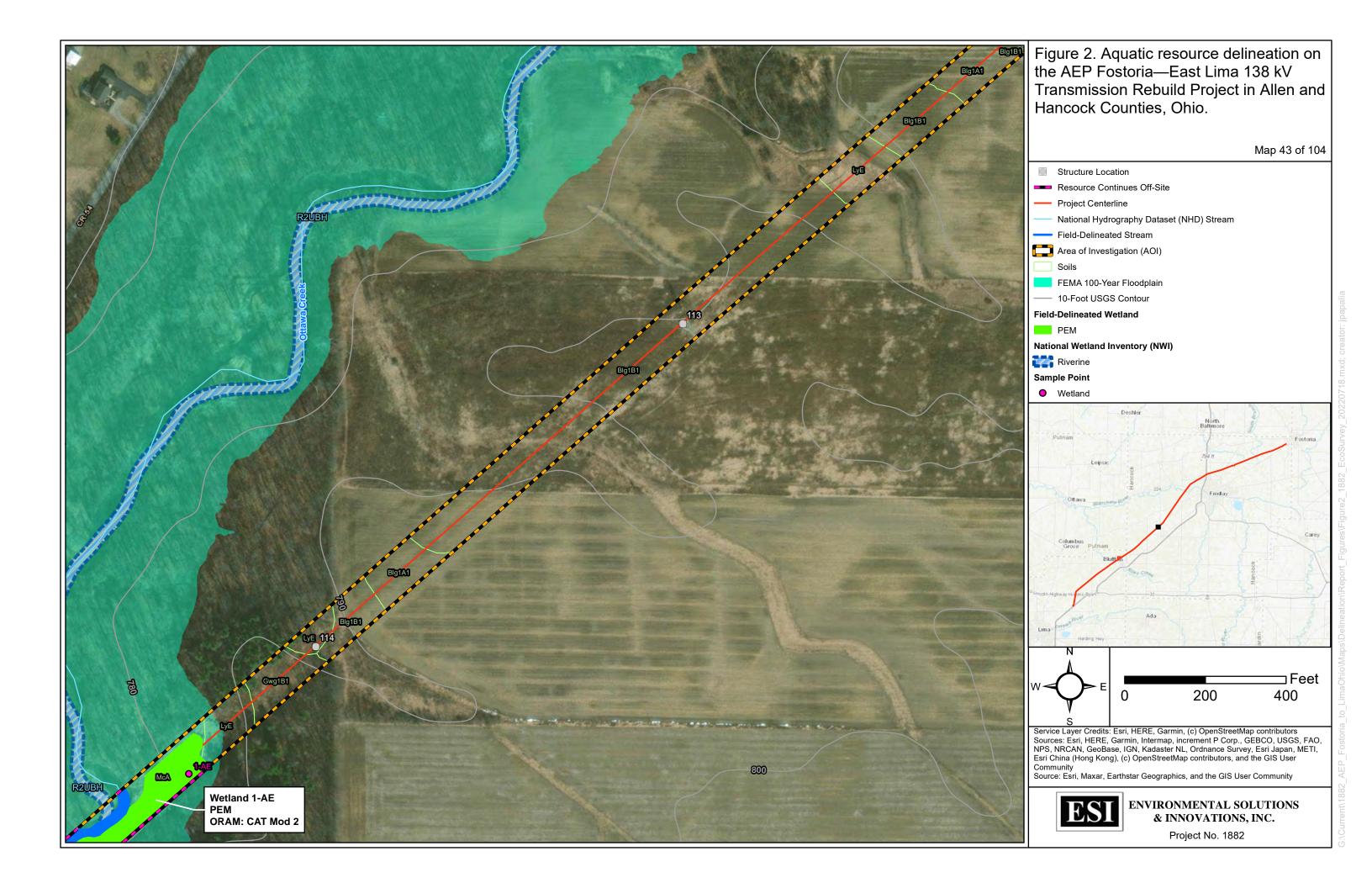


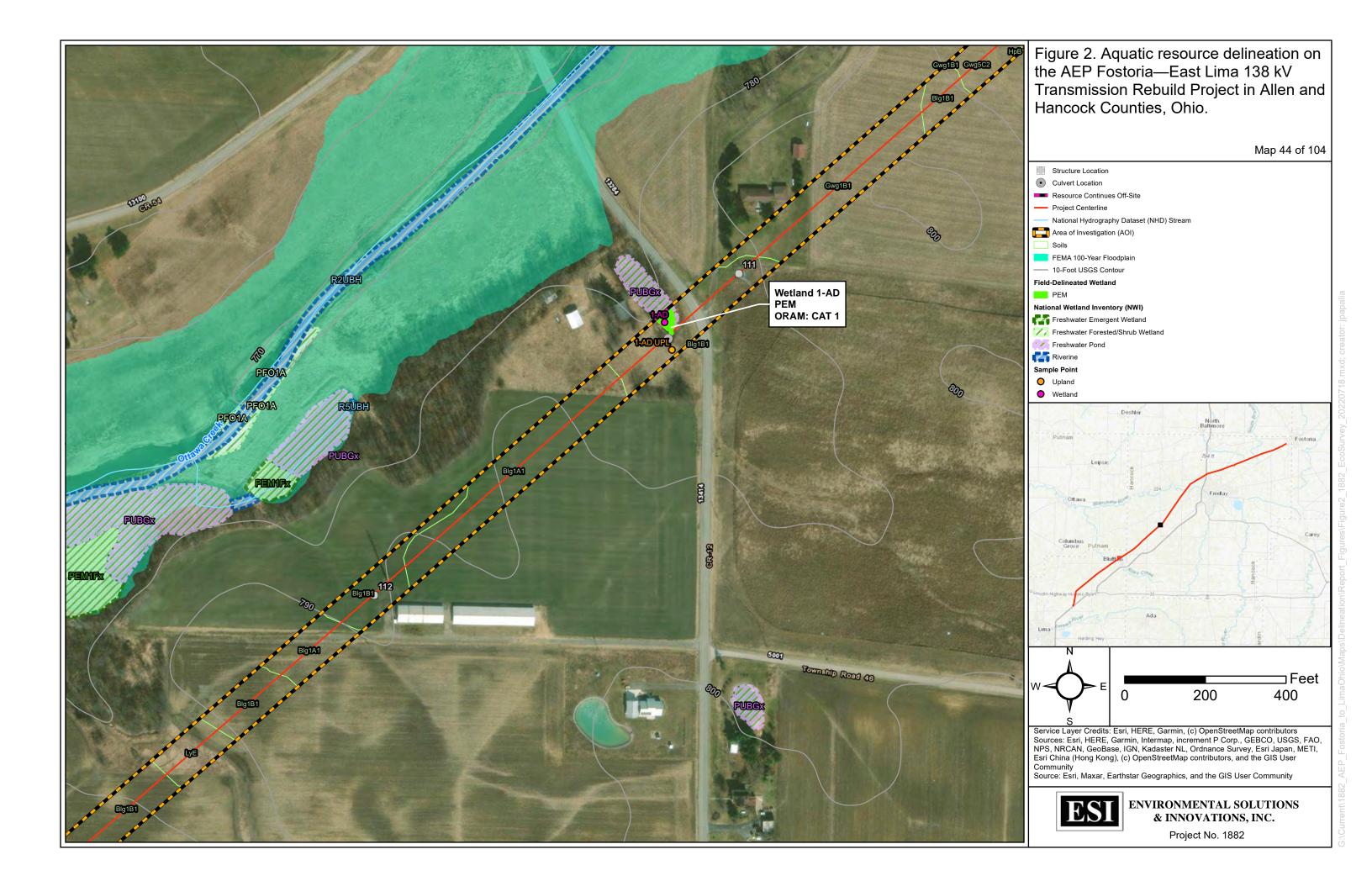


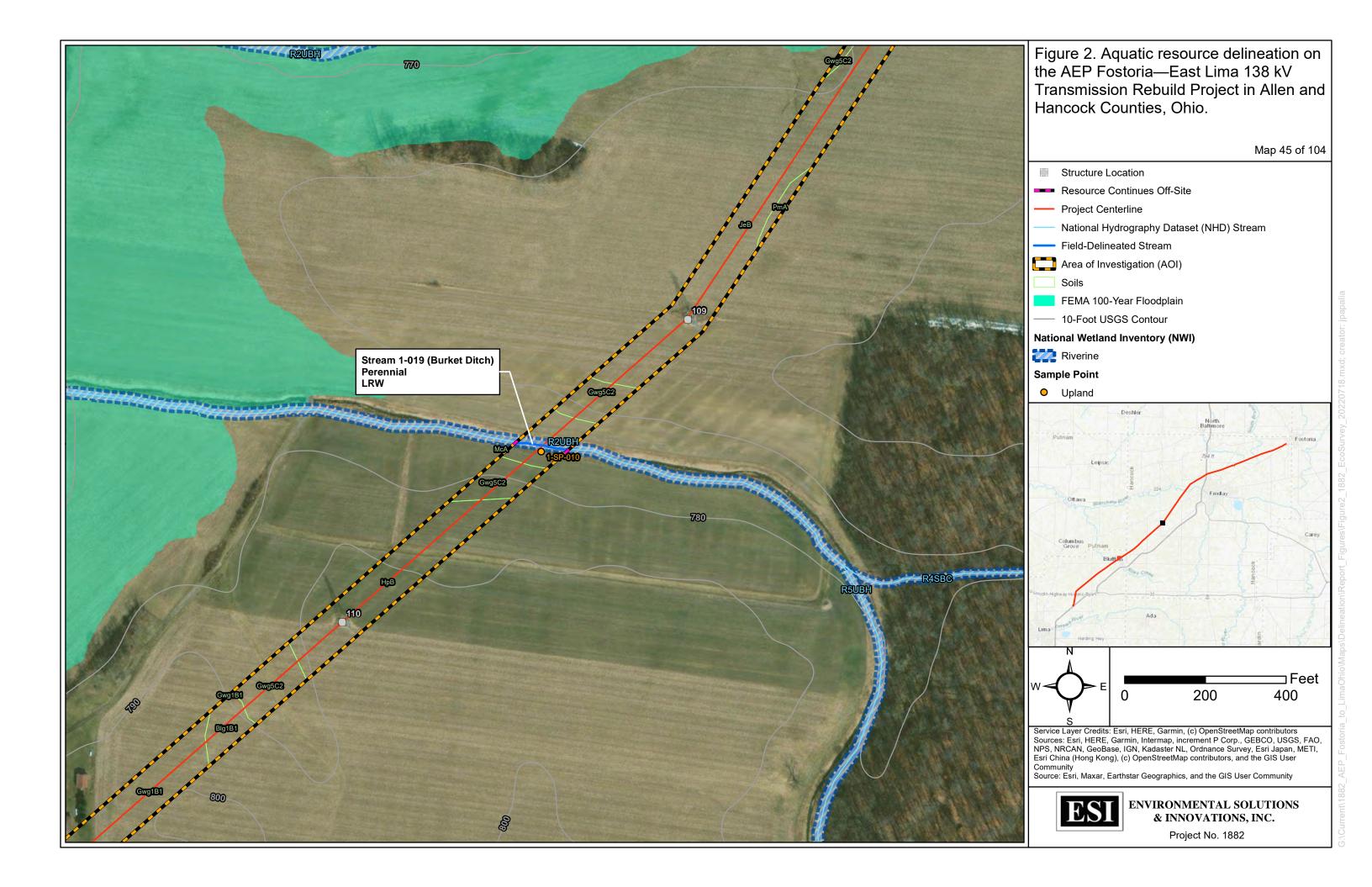


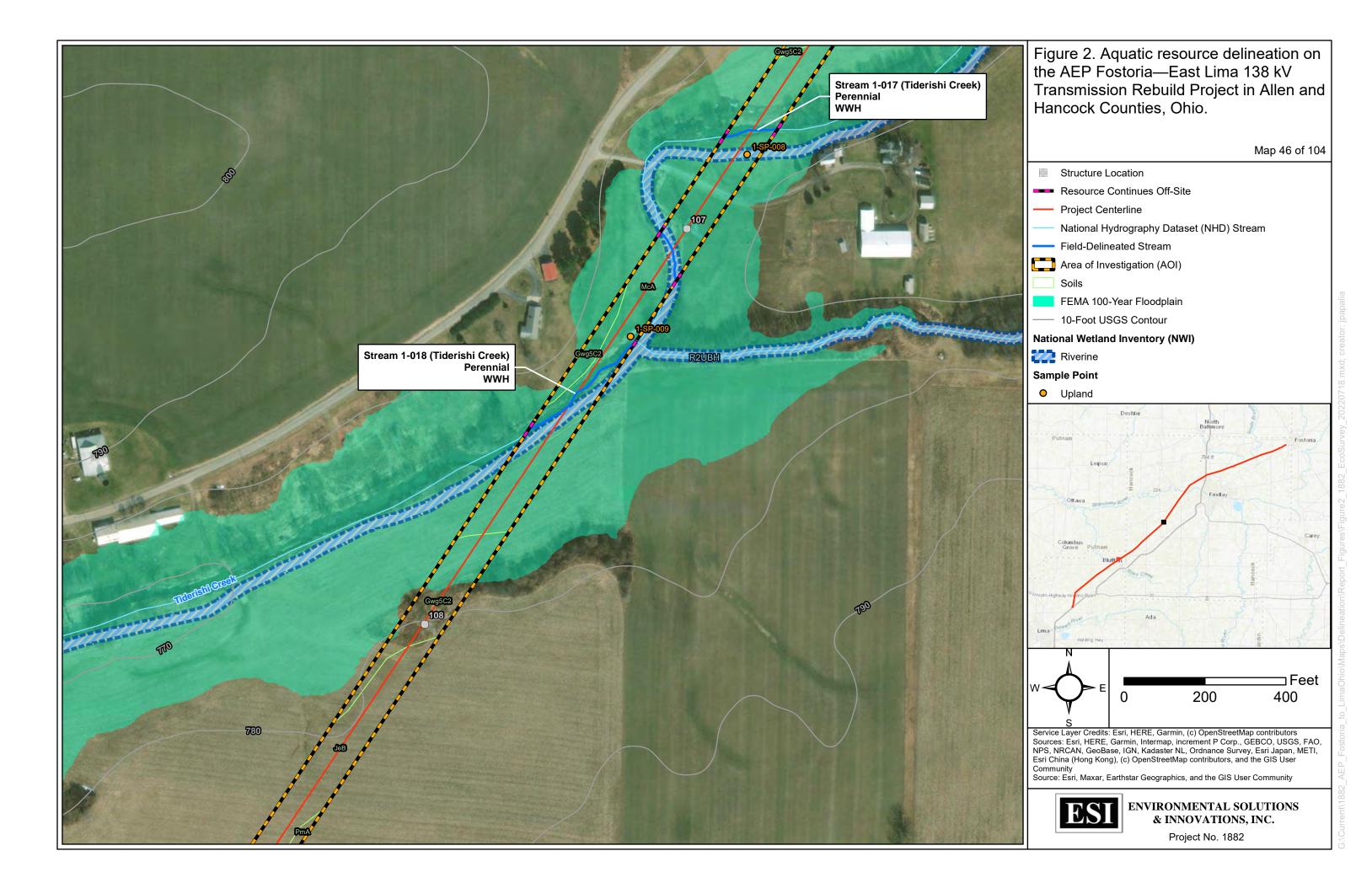


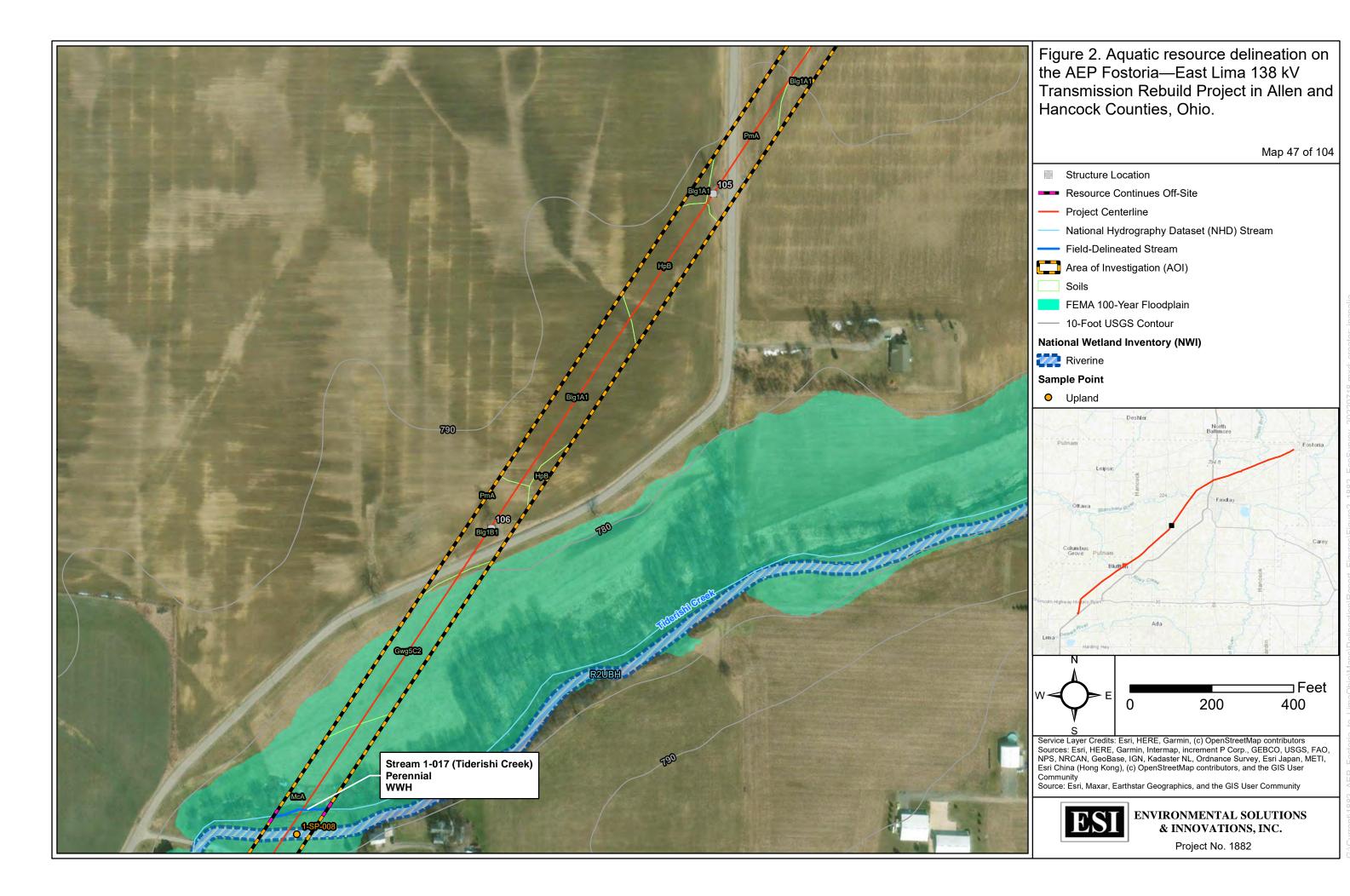


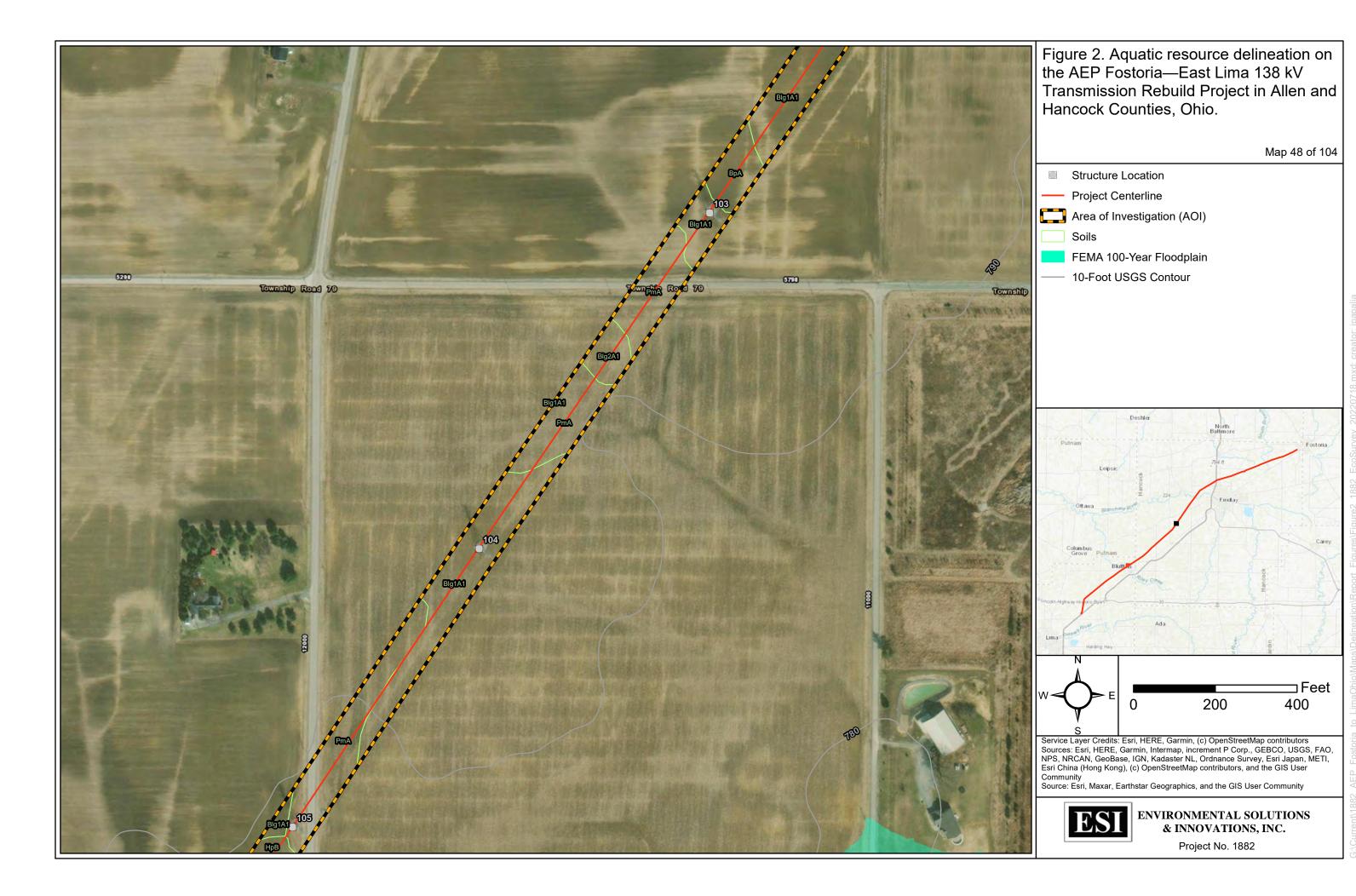




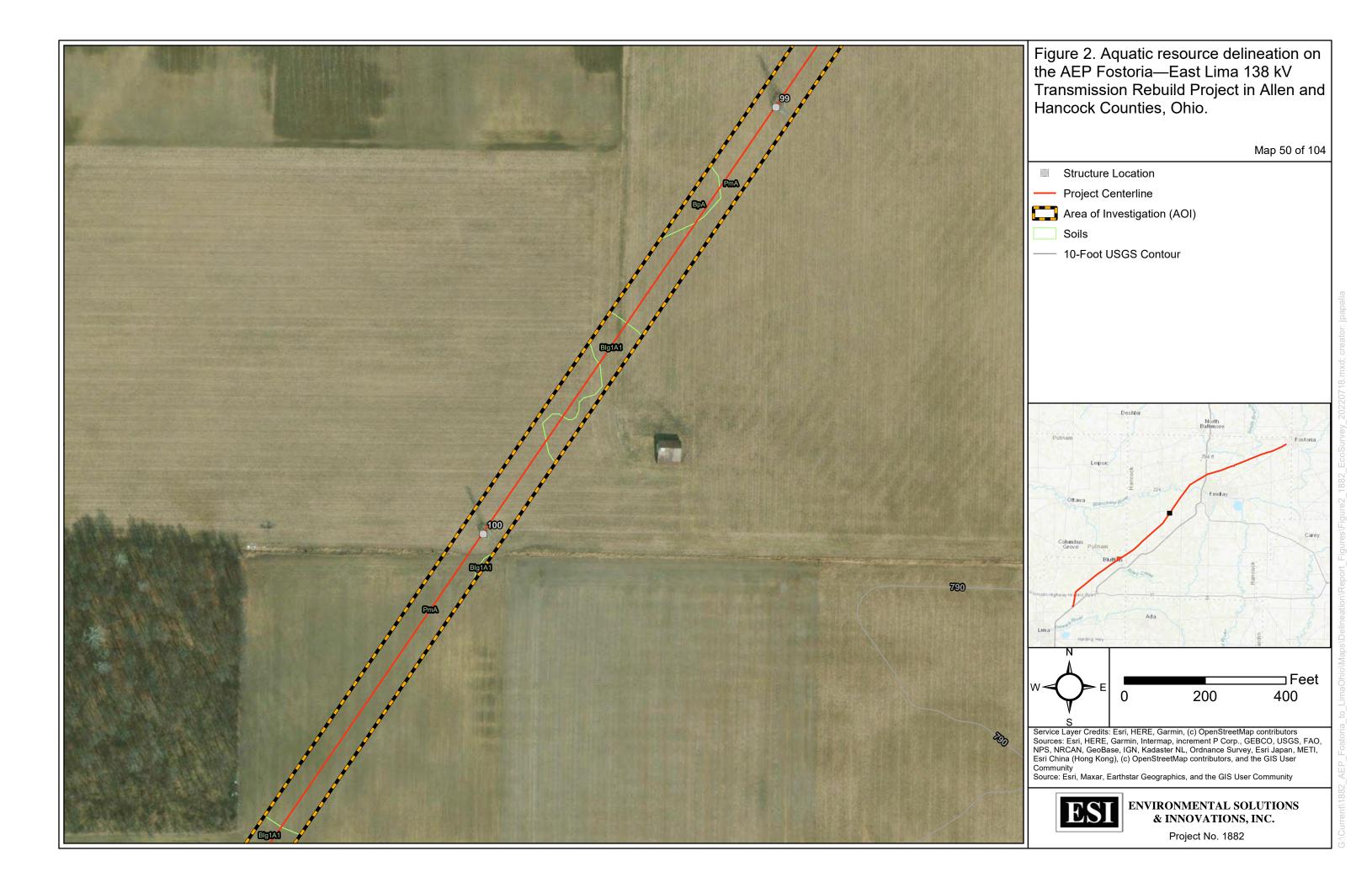




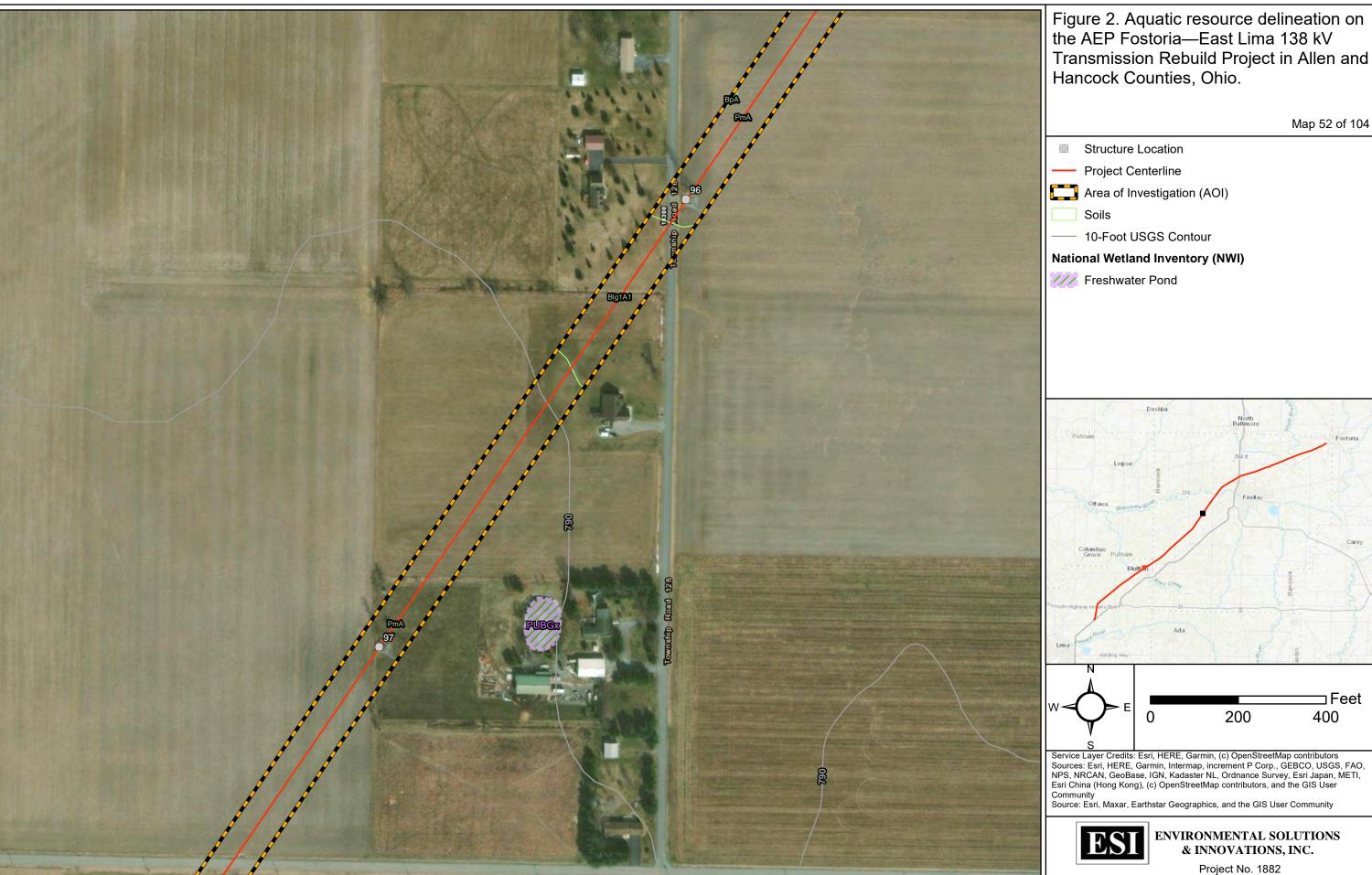






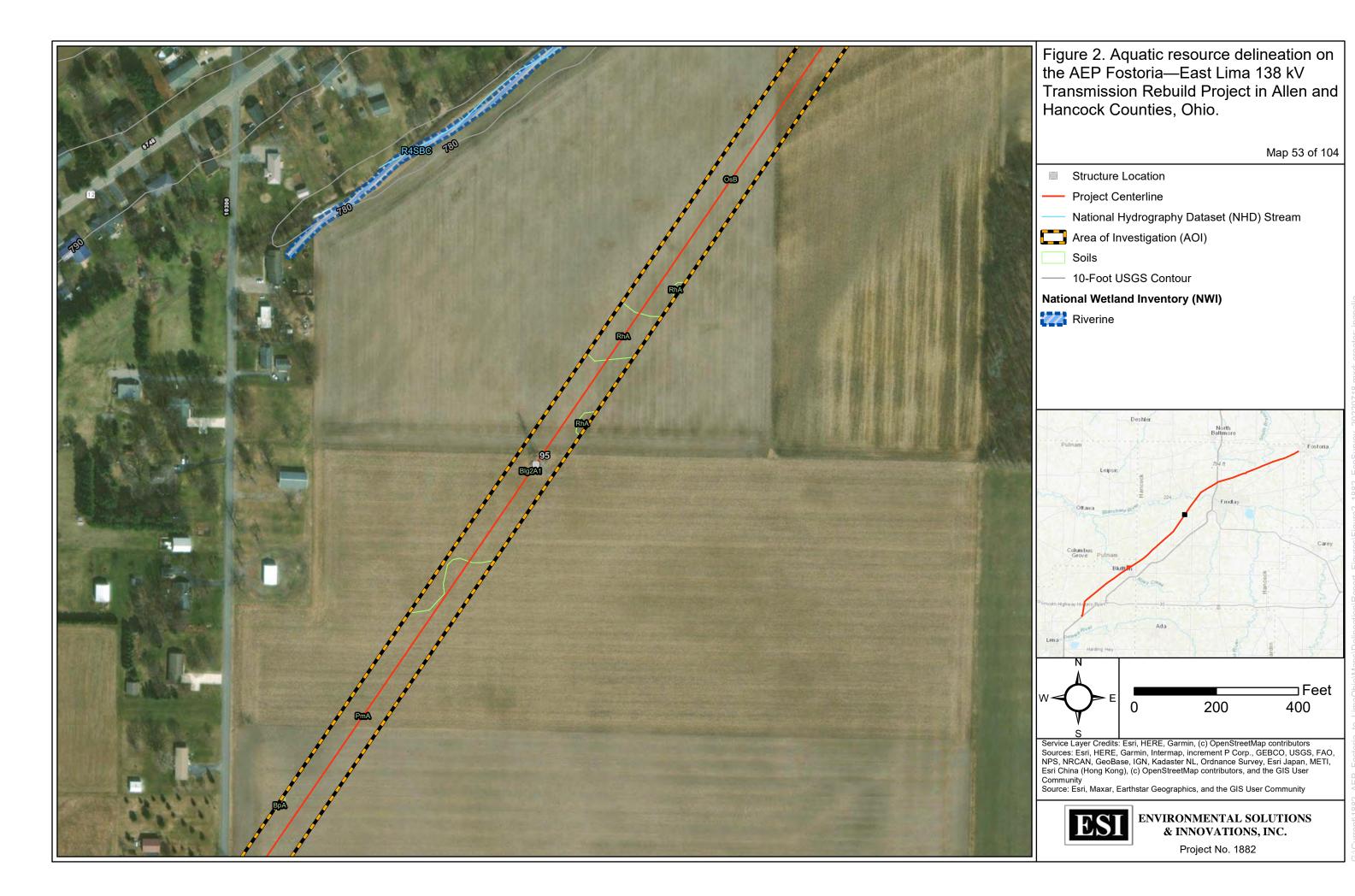


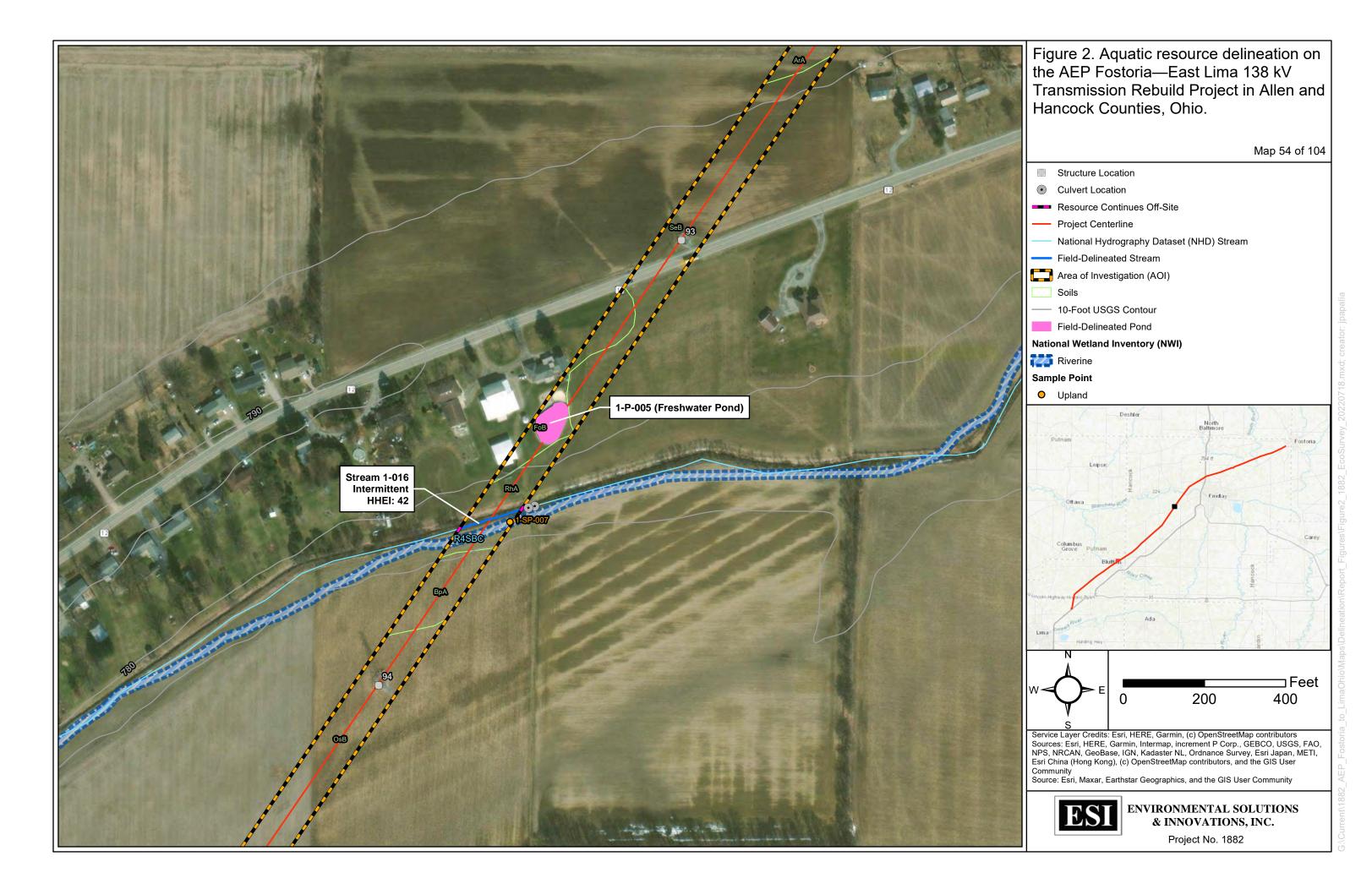


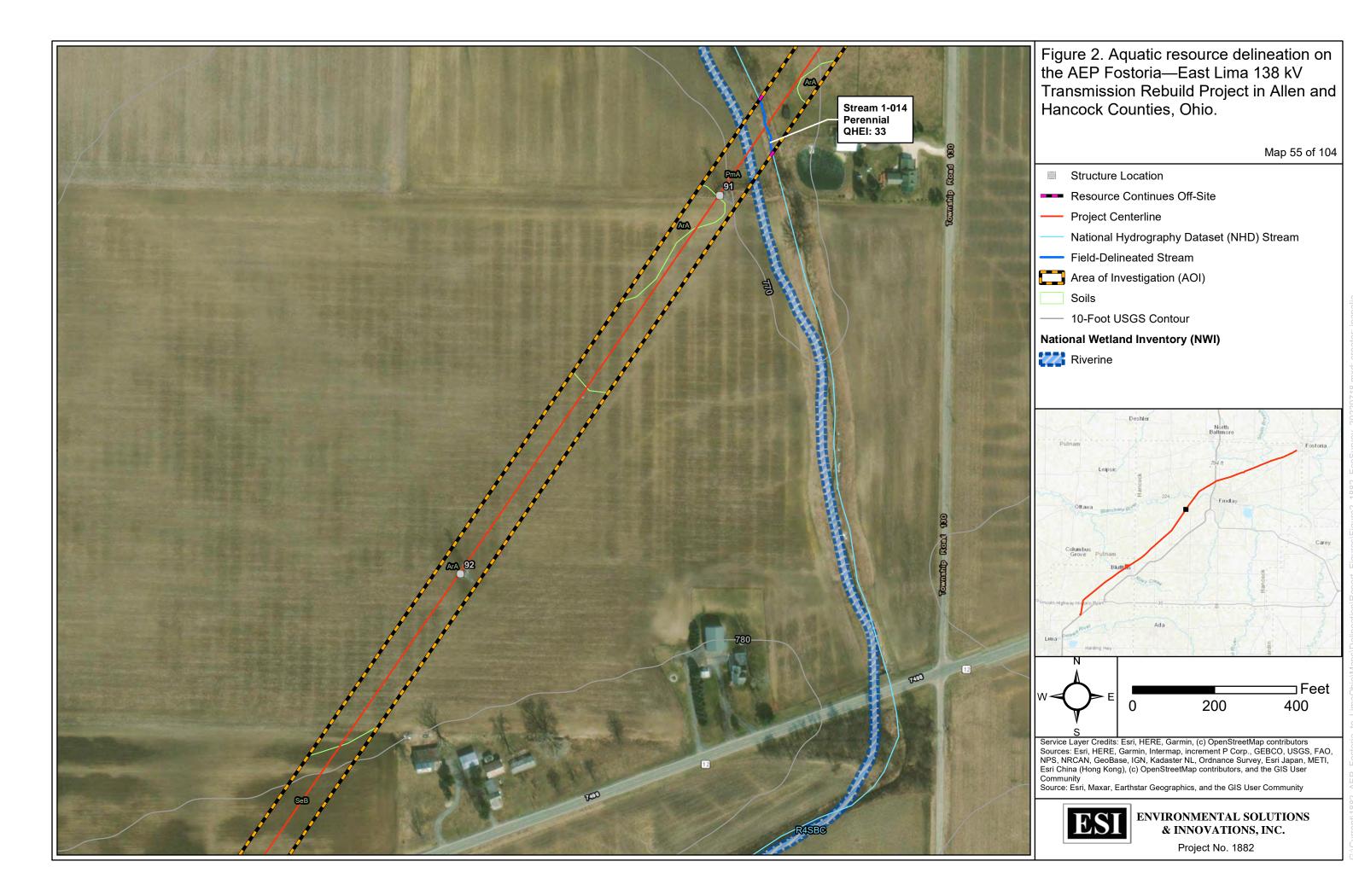


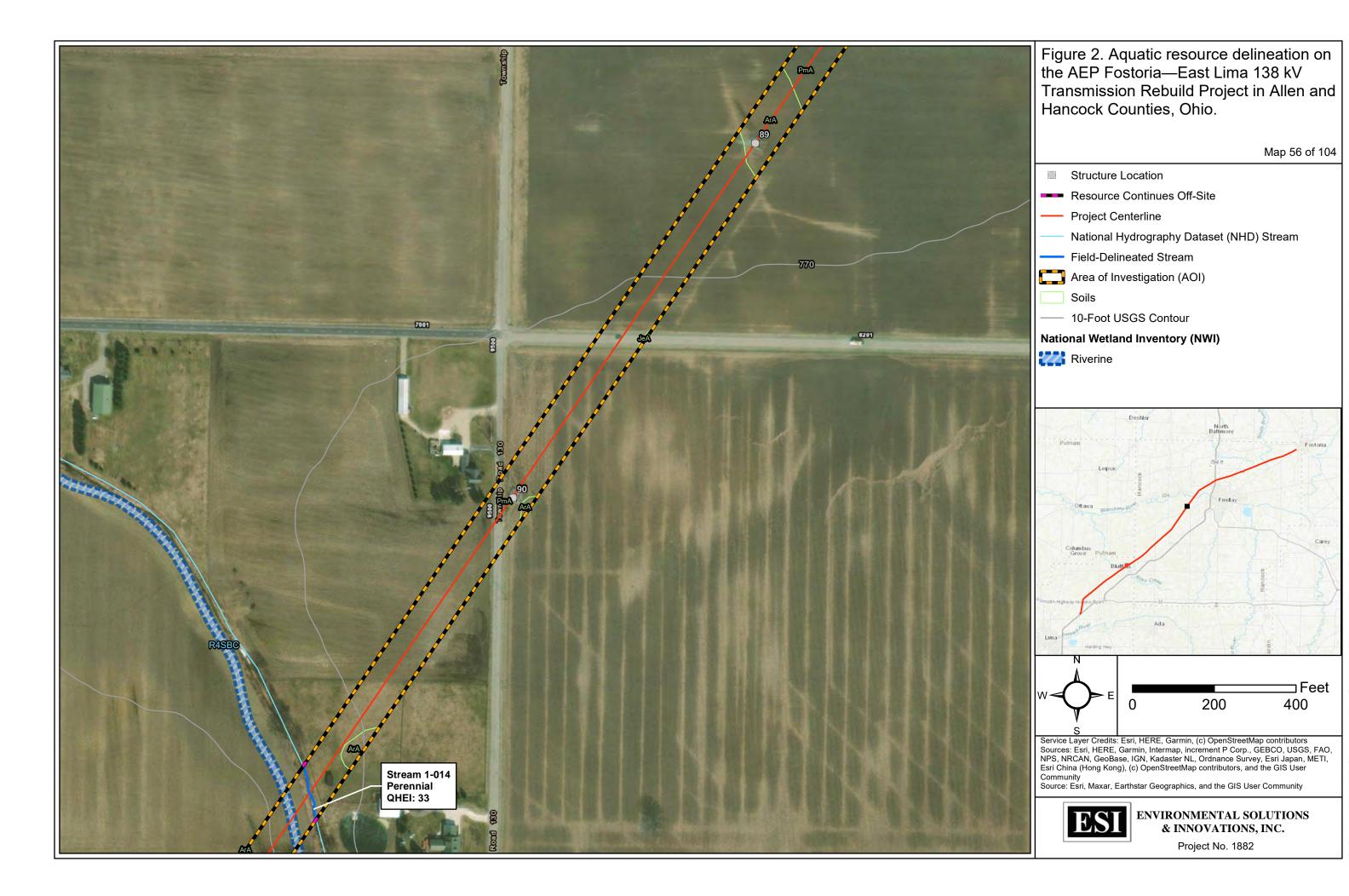
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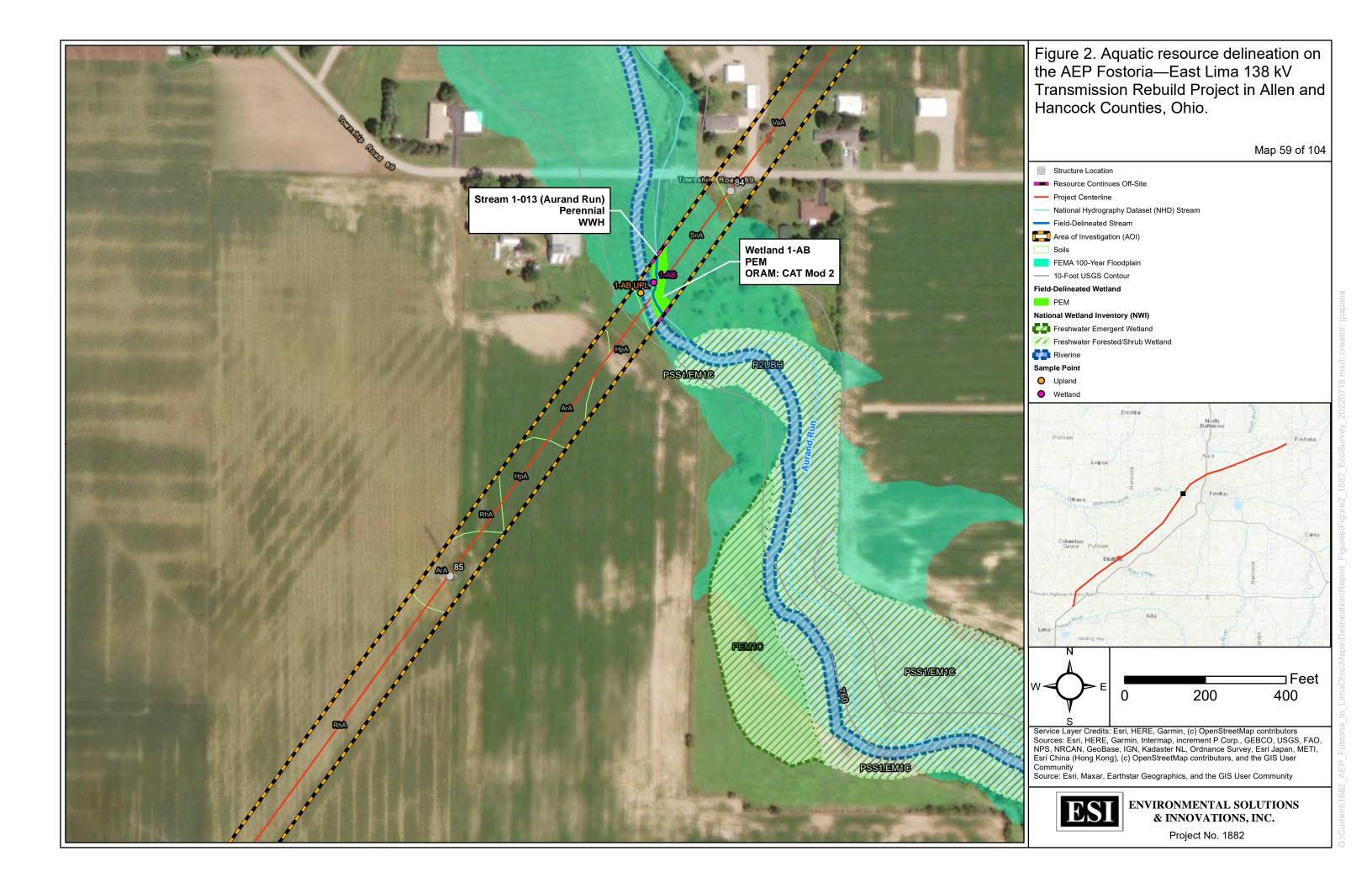


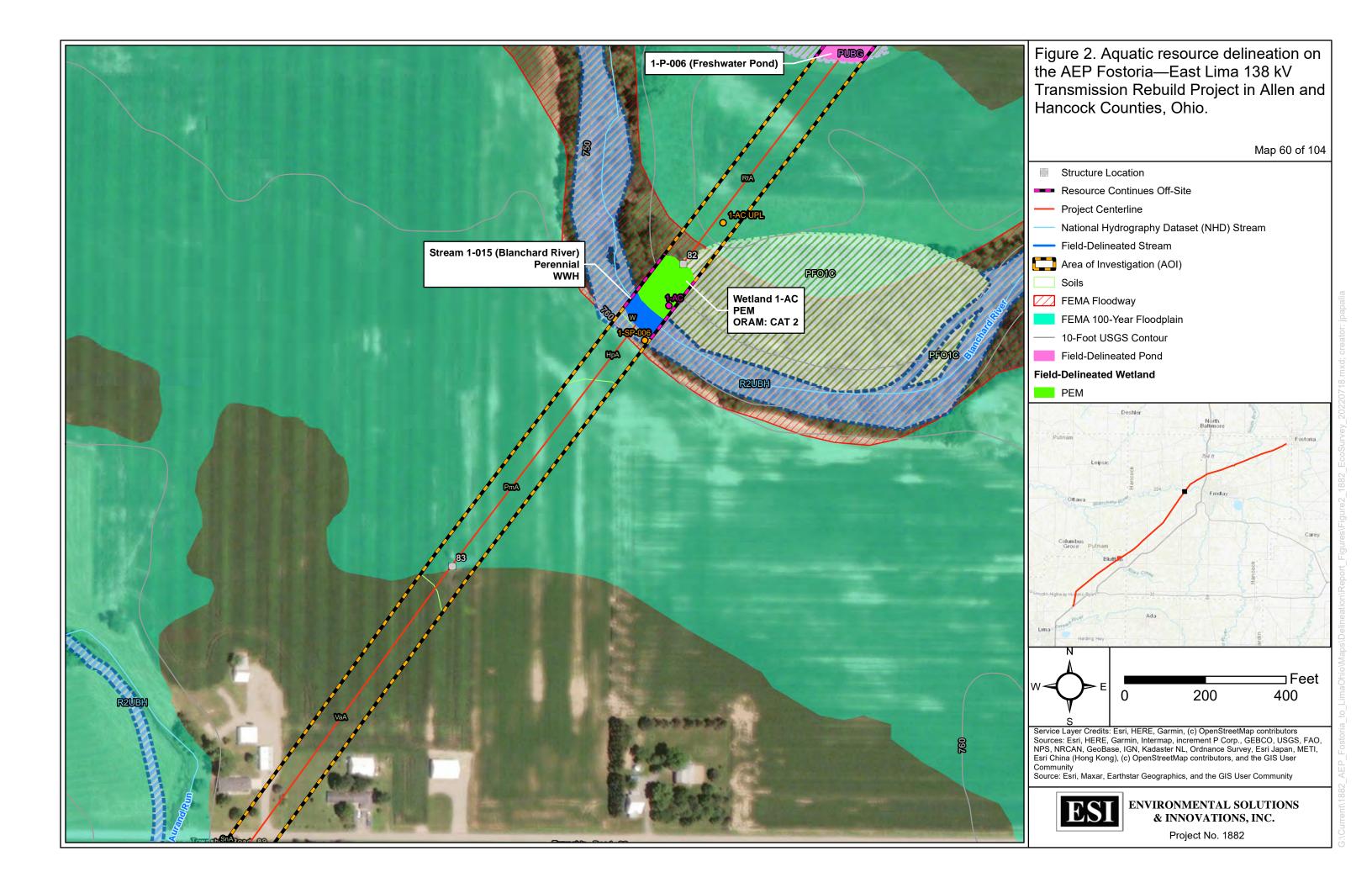


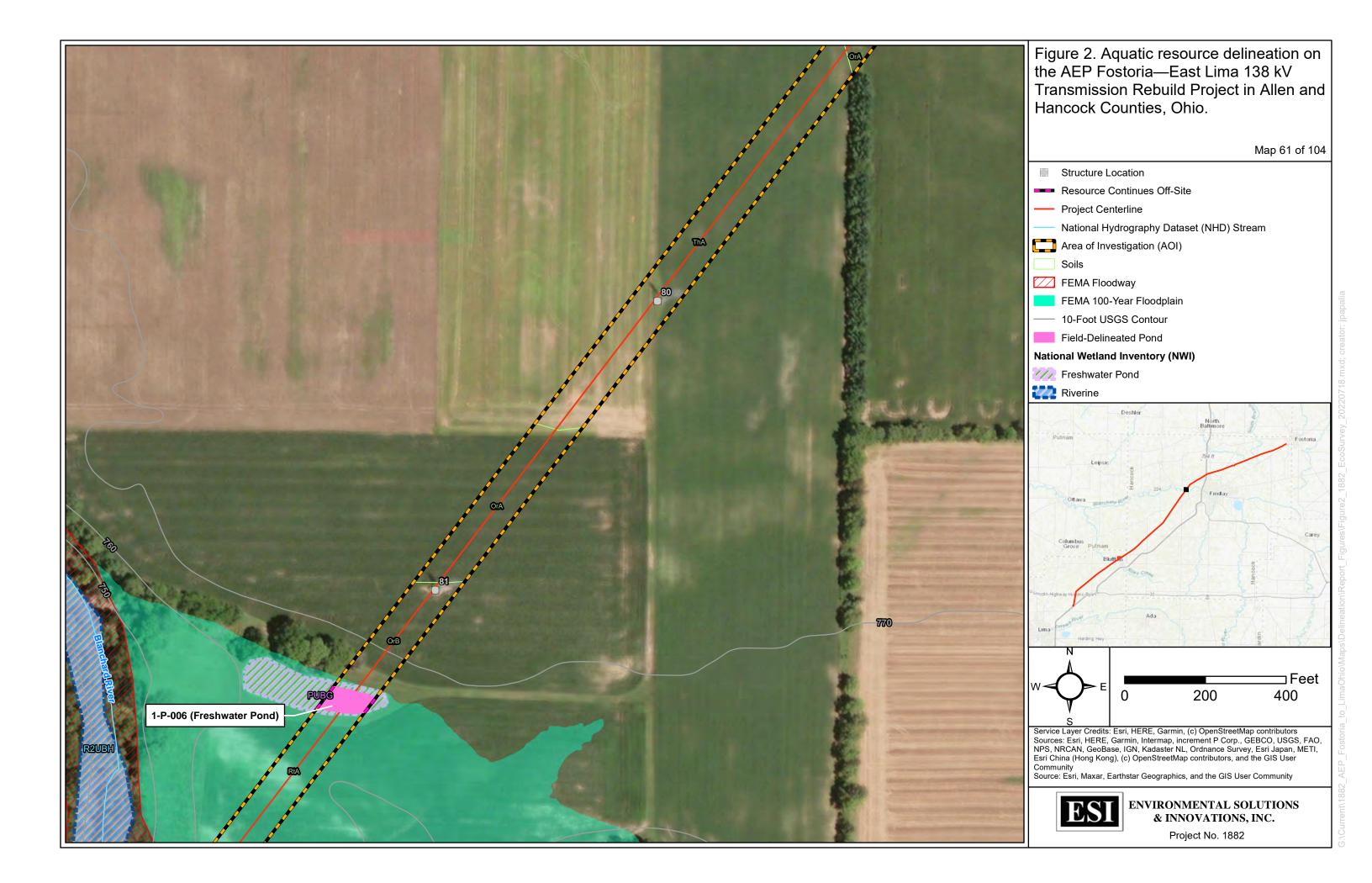


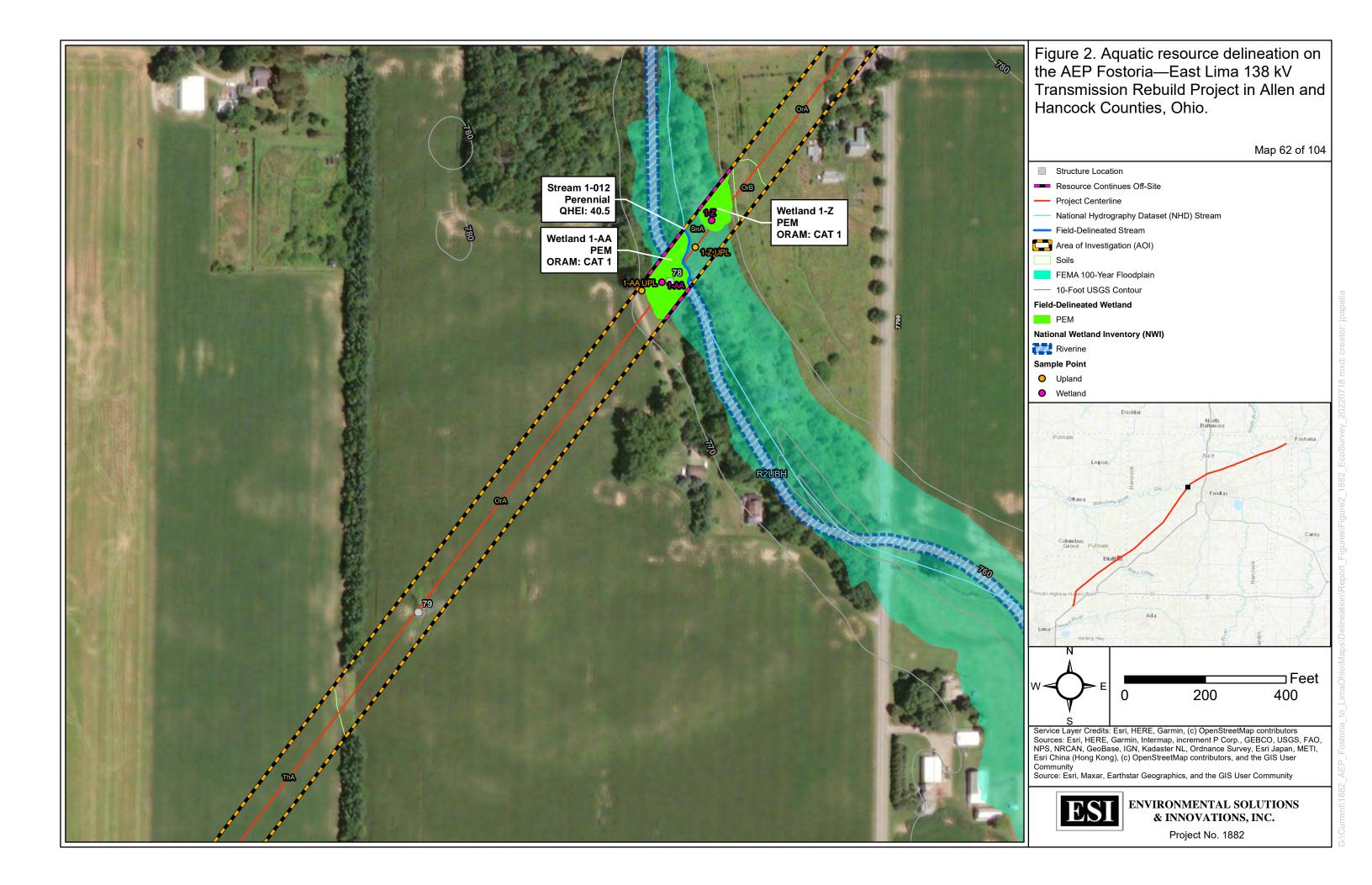


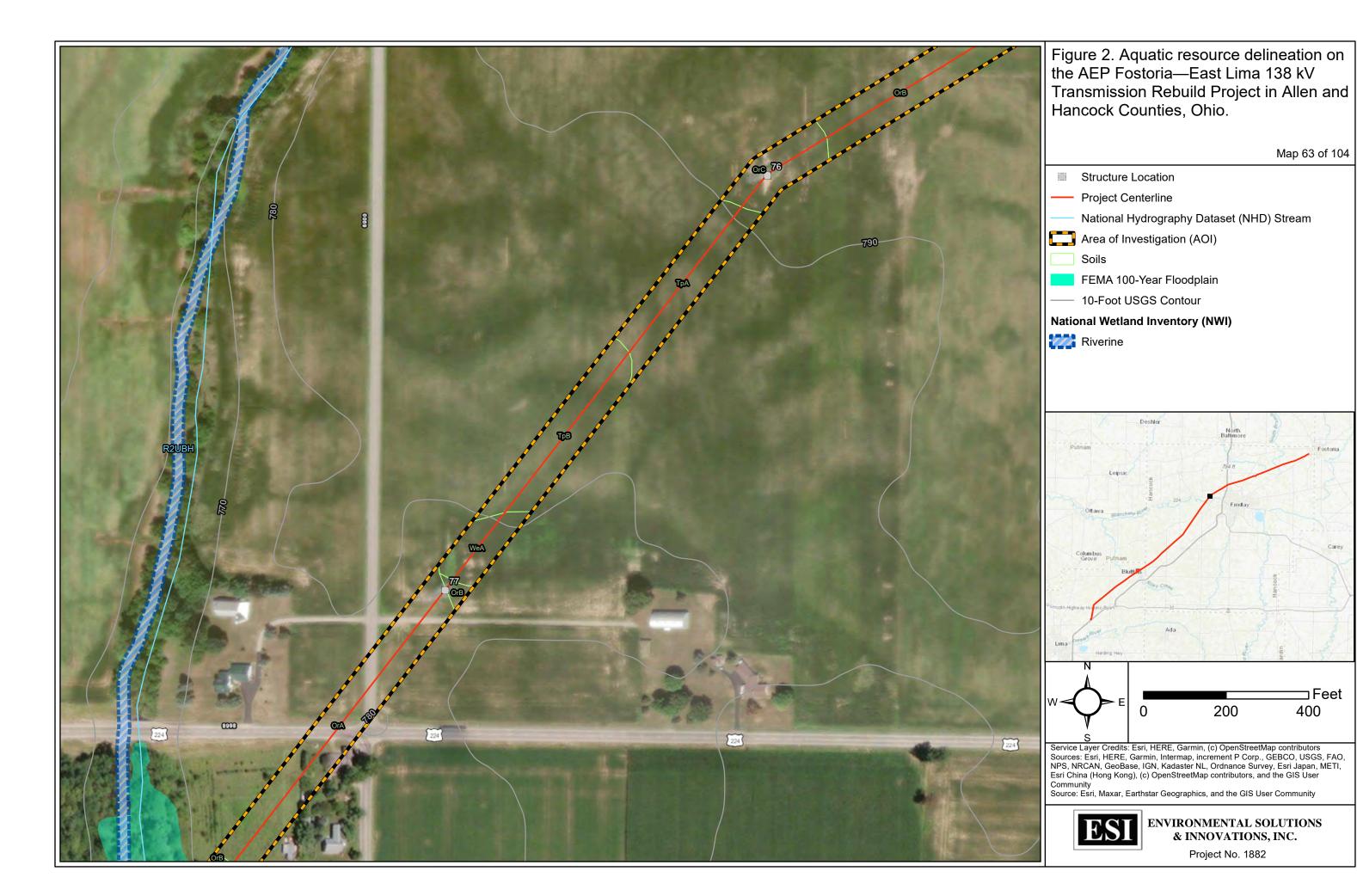


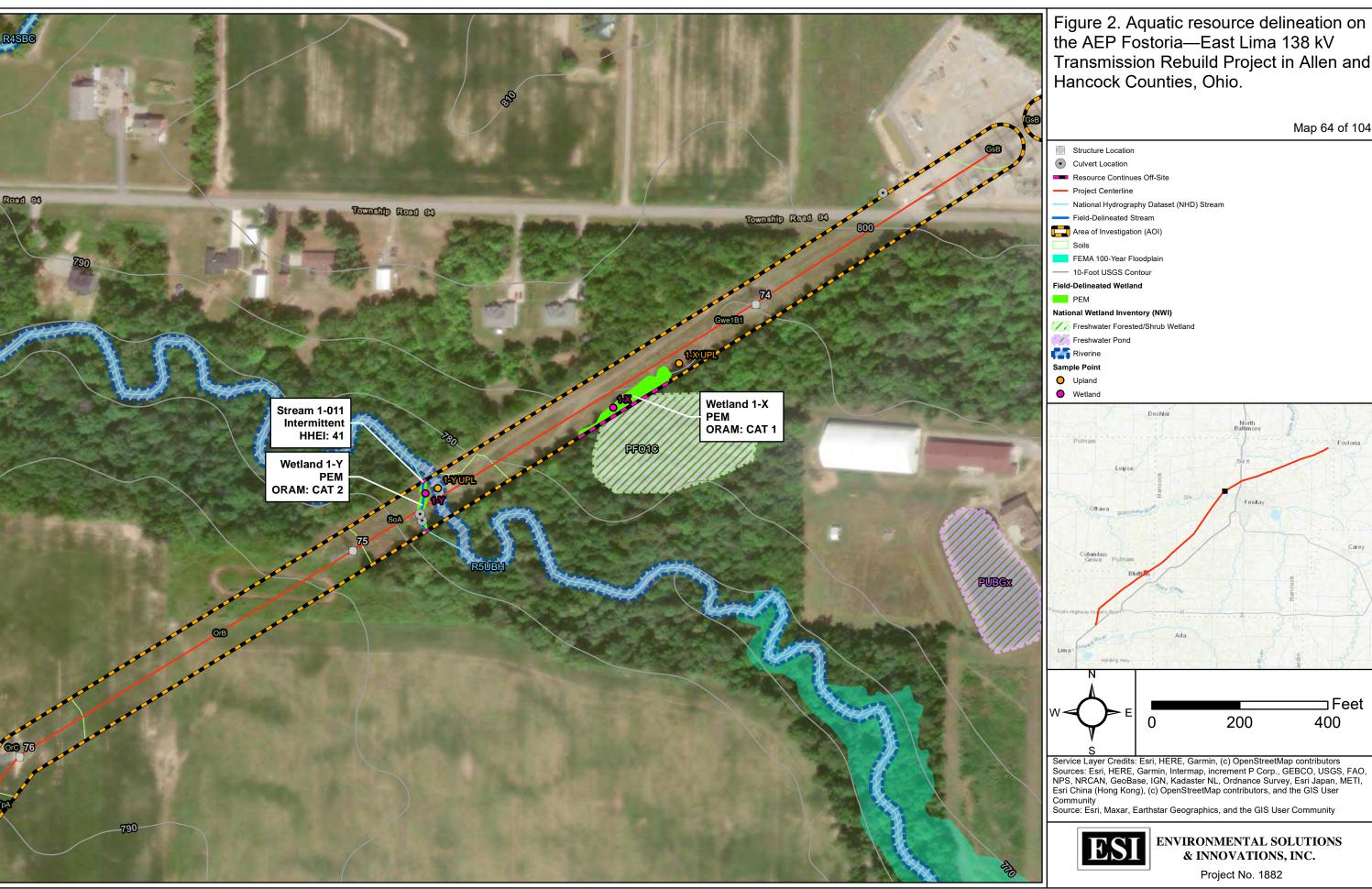






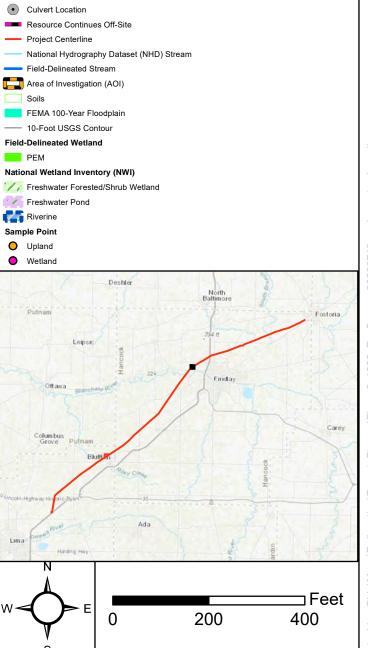




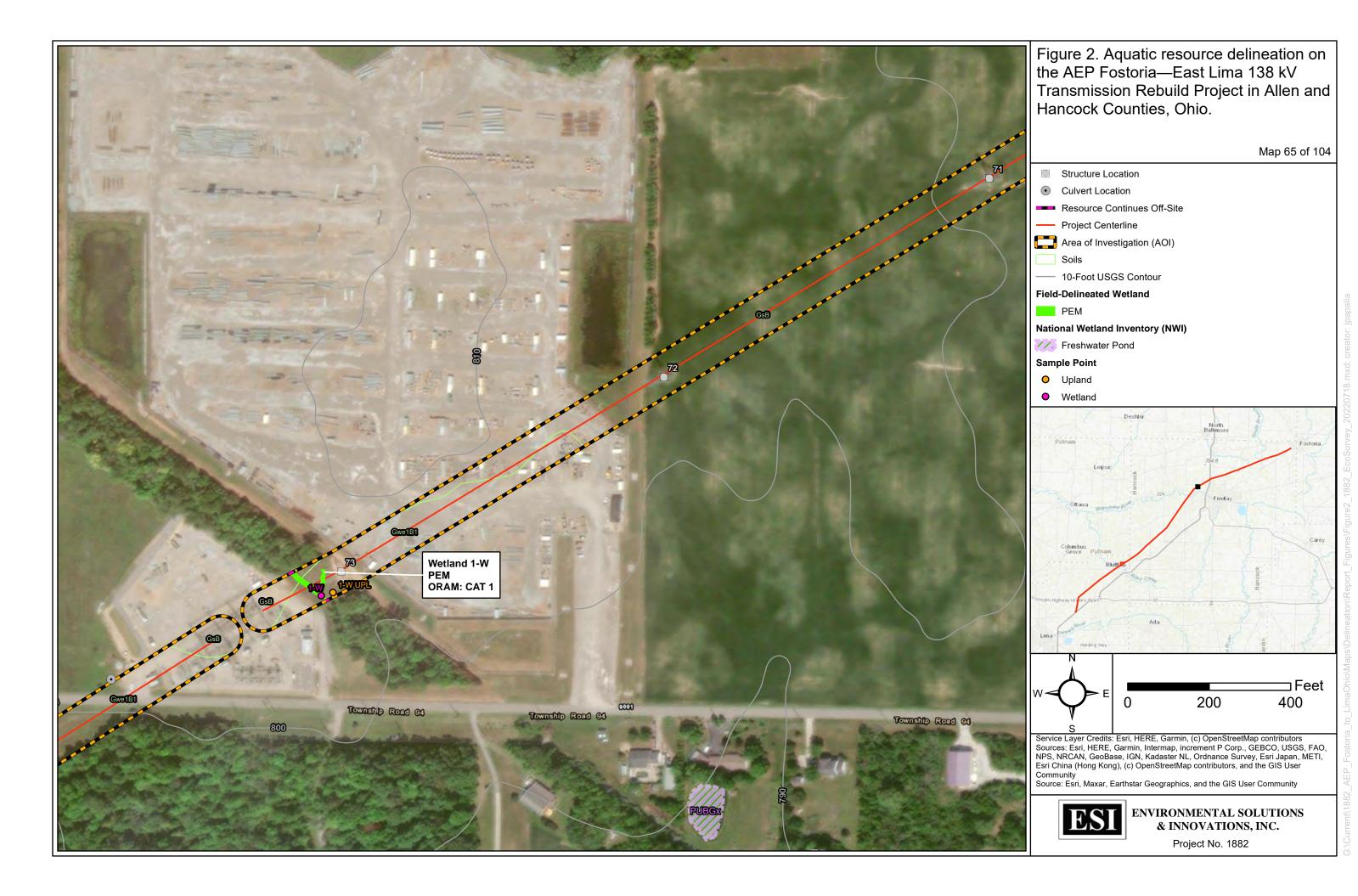


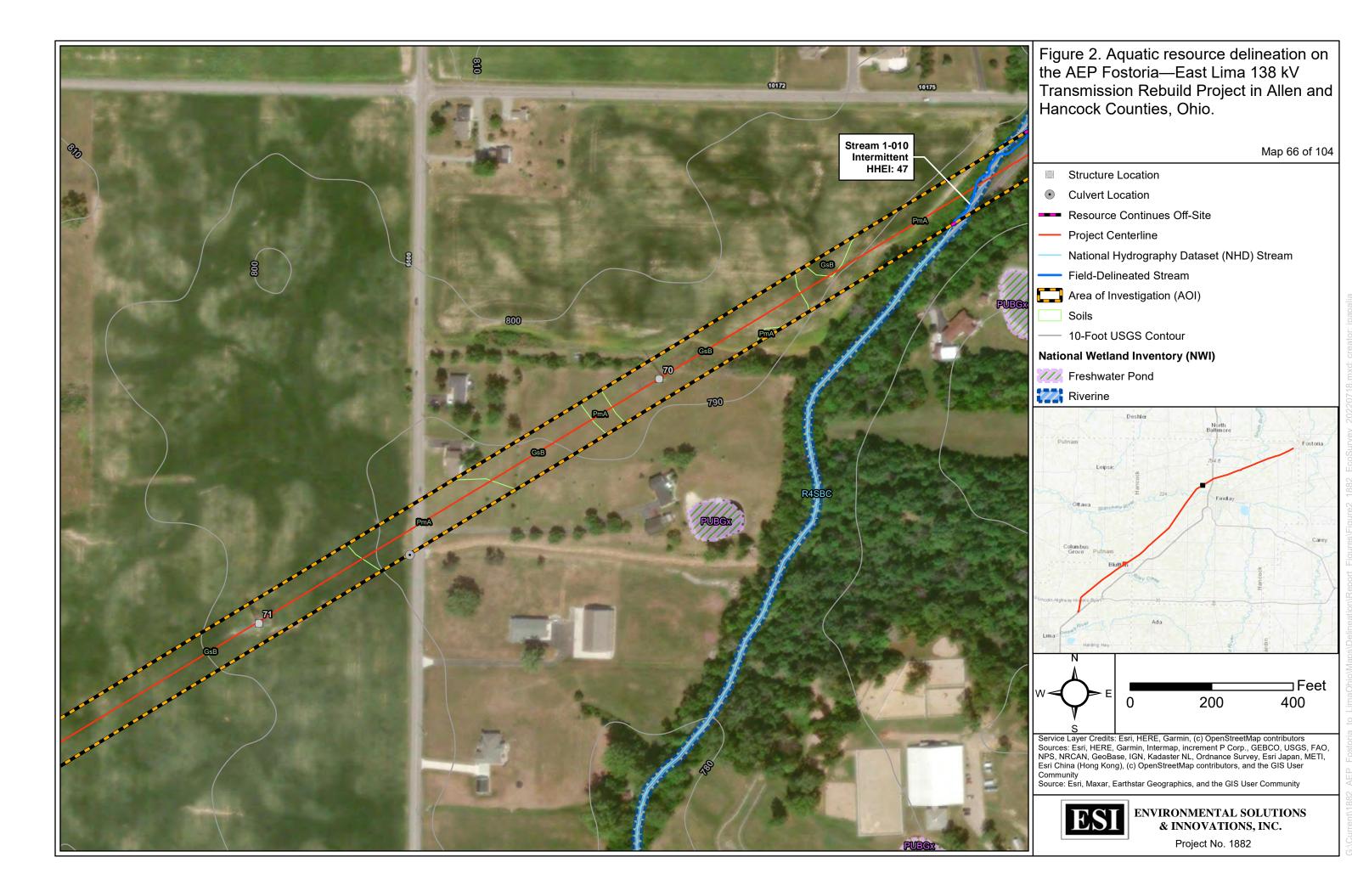
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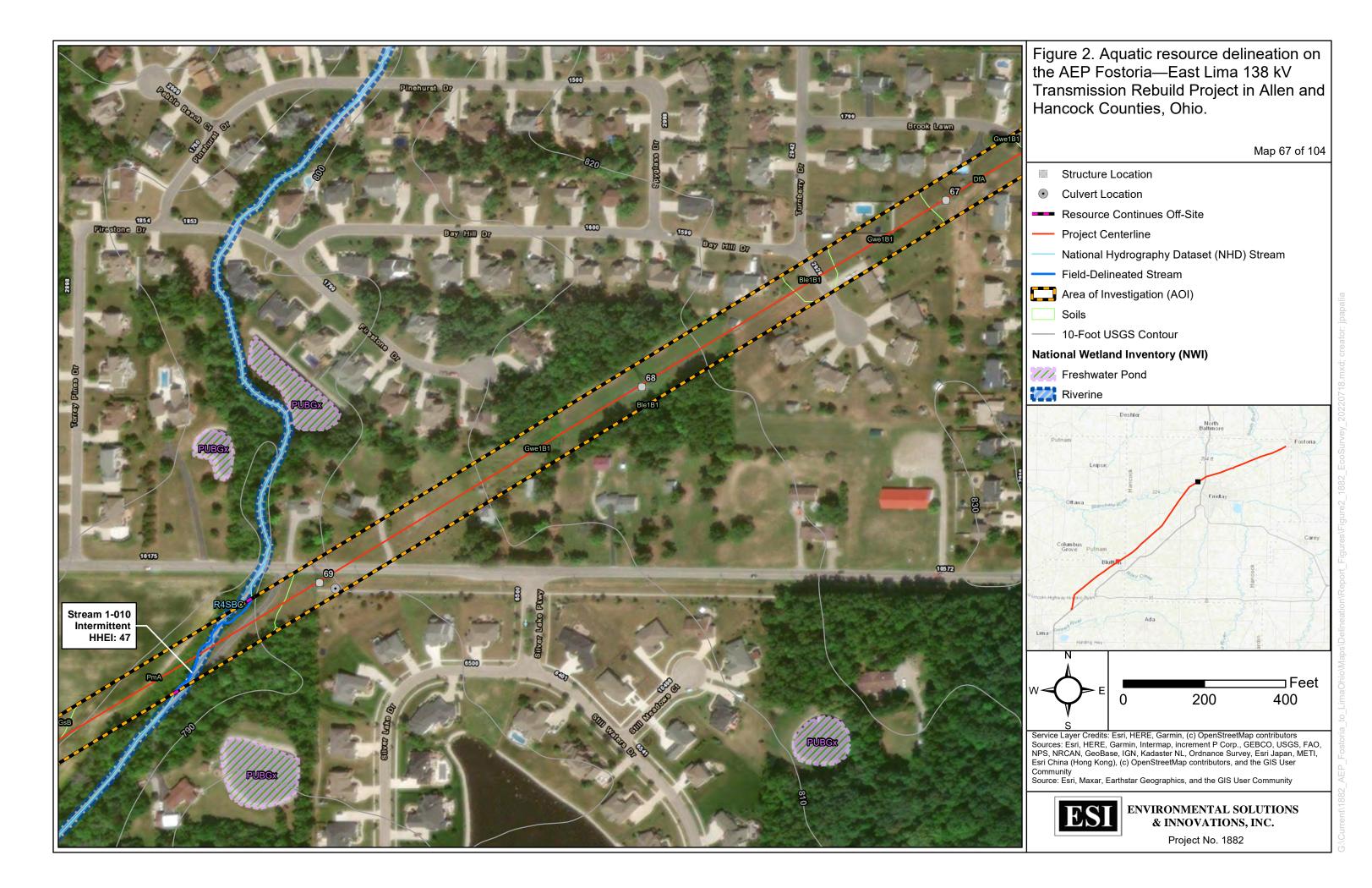
Map 64 of 104



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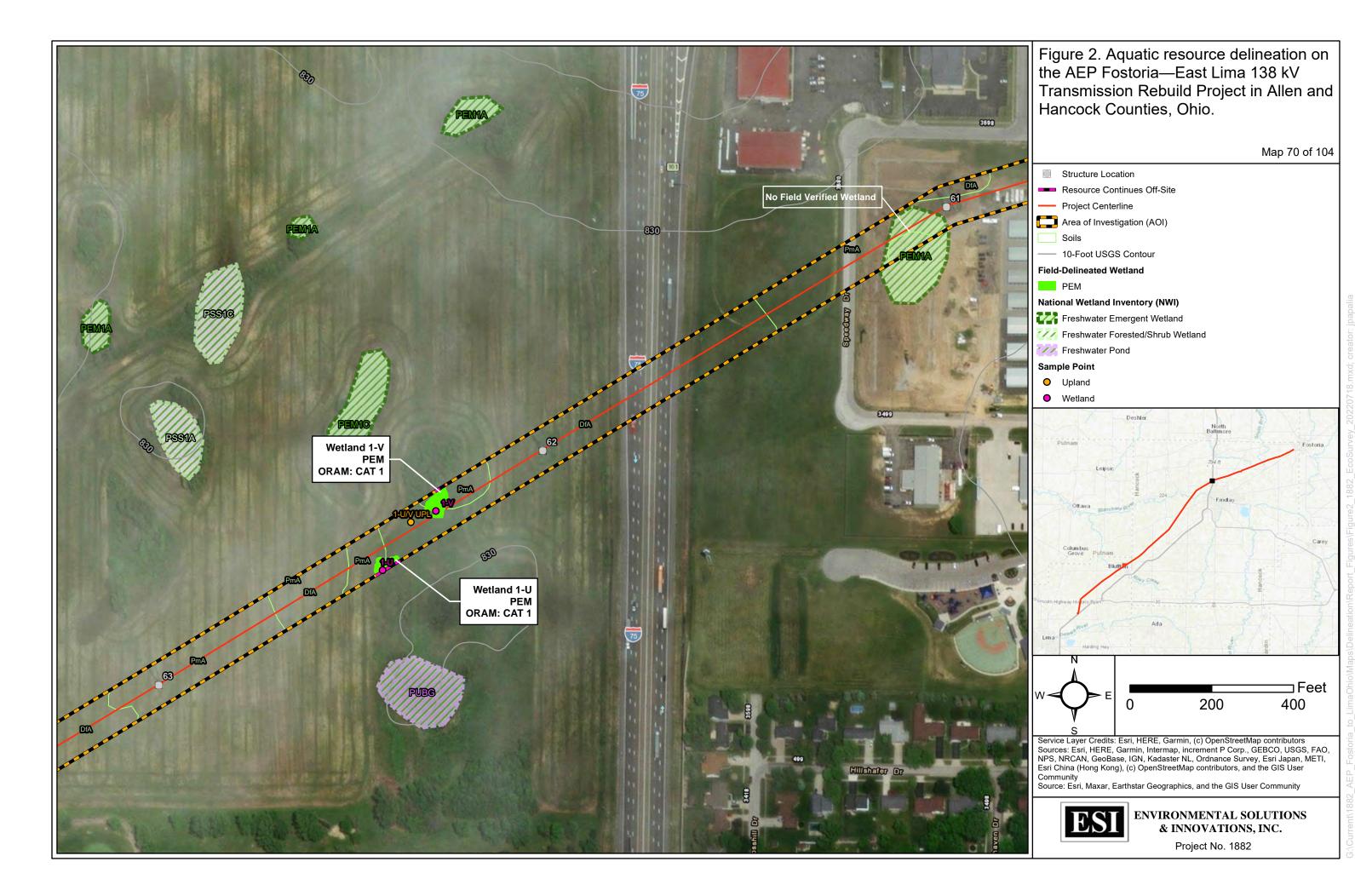












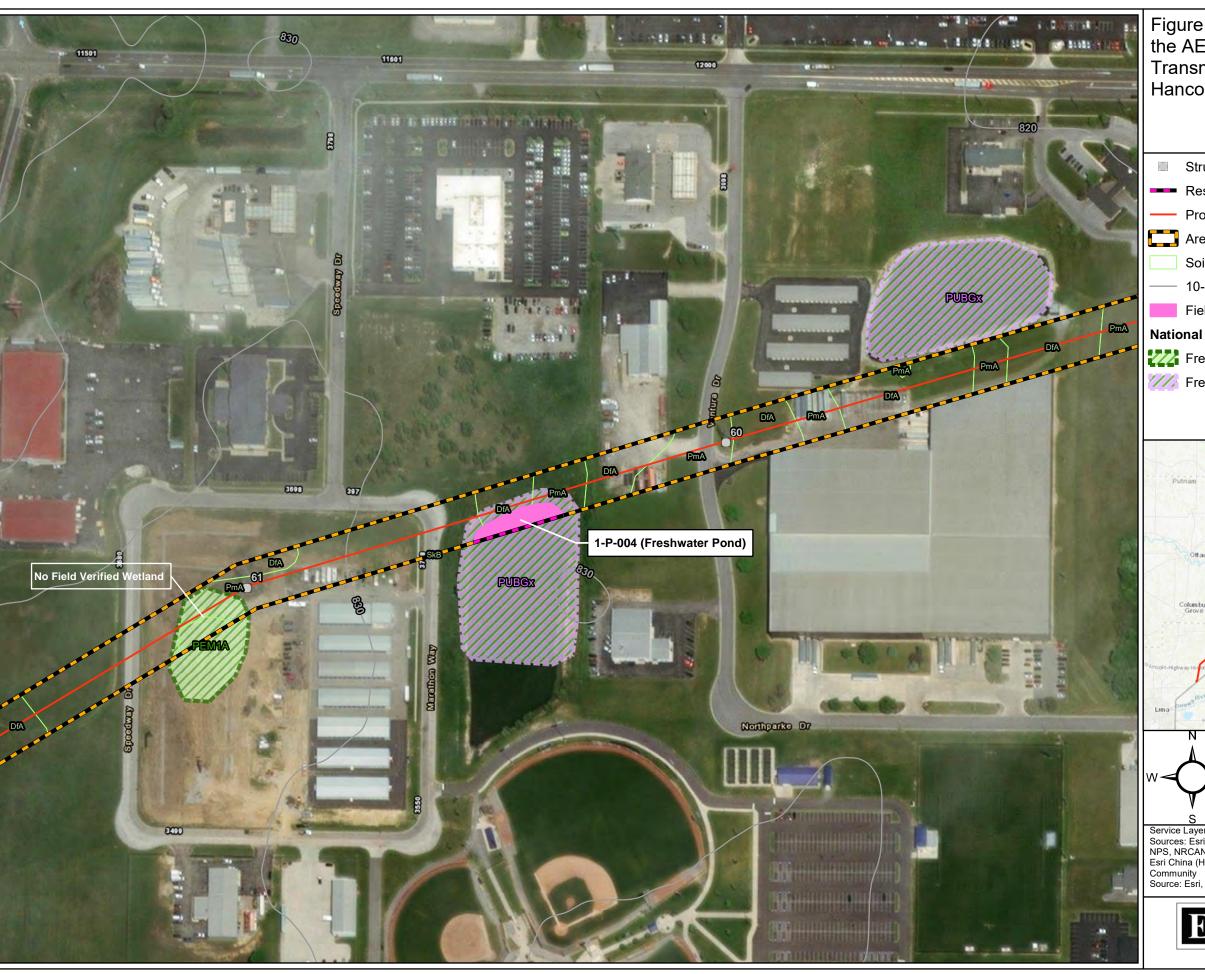


Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio.

Map 71 of 104

Structure Location

Resource Continues Off-Site

Project Centerline

Area of Investigation (AOI)

Soils

10-Foot USGS Contour

Field-Delineated Pond

## **National Wetland Inventory (NWI)**

Freshwater Emergent Wetland

//// Freshwater Pond



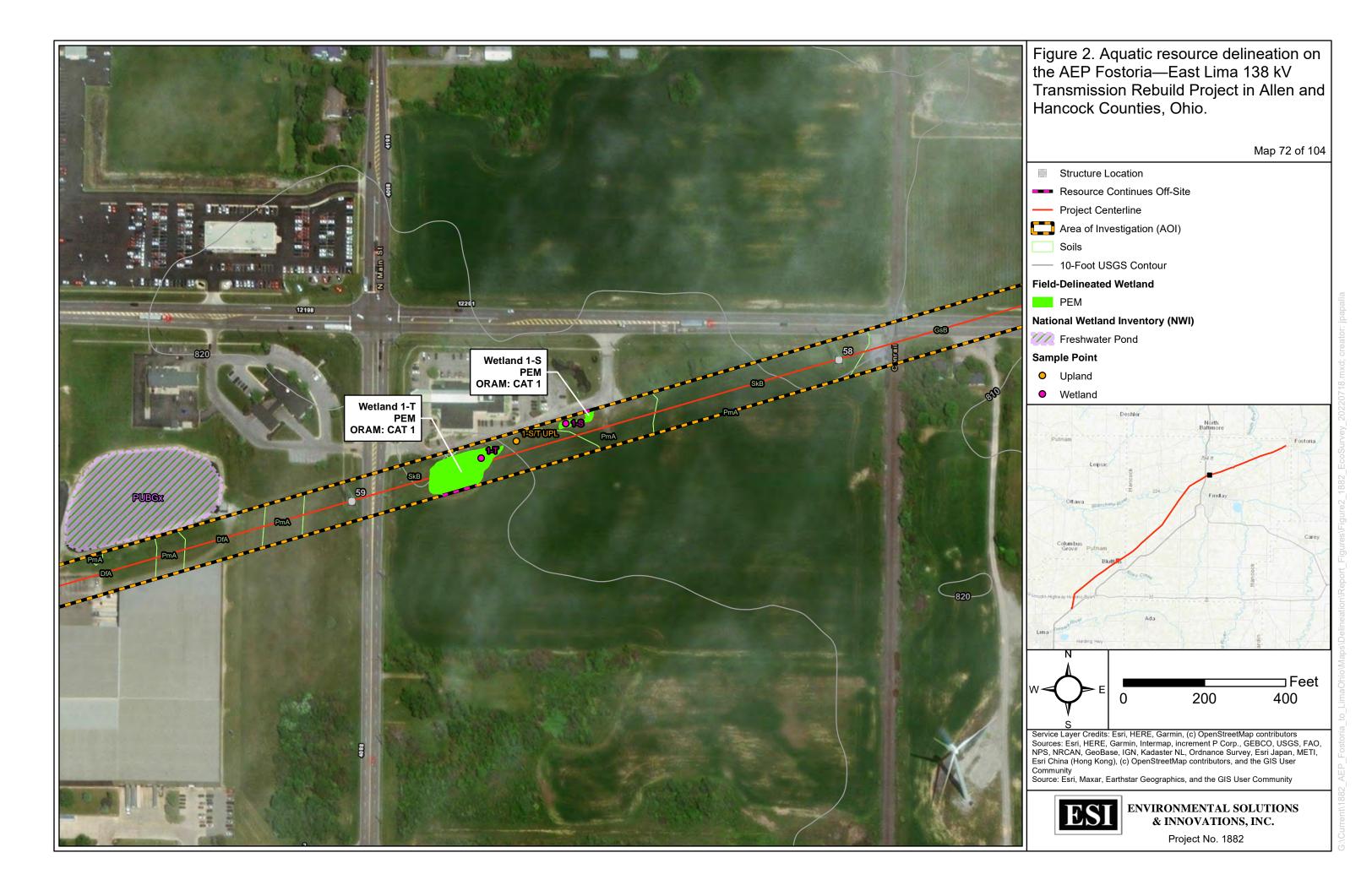


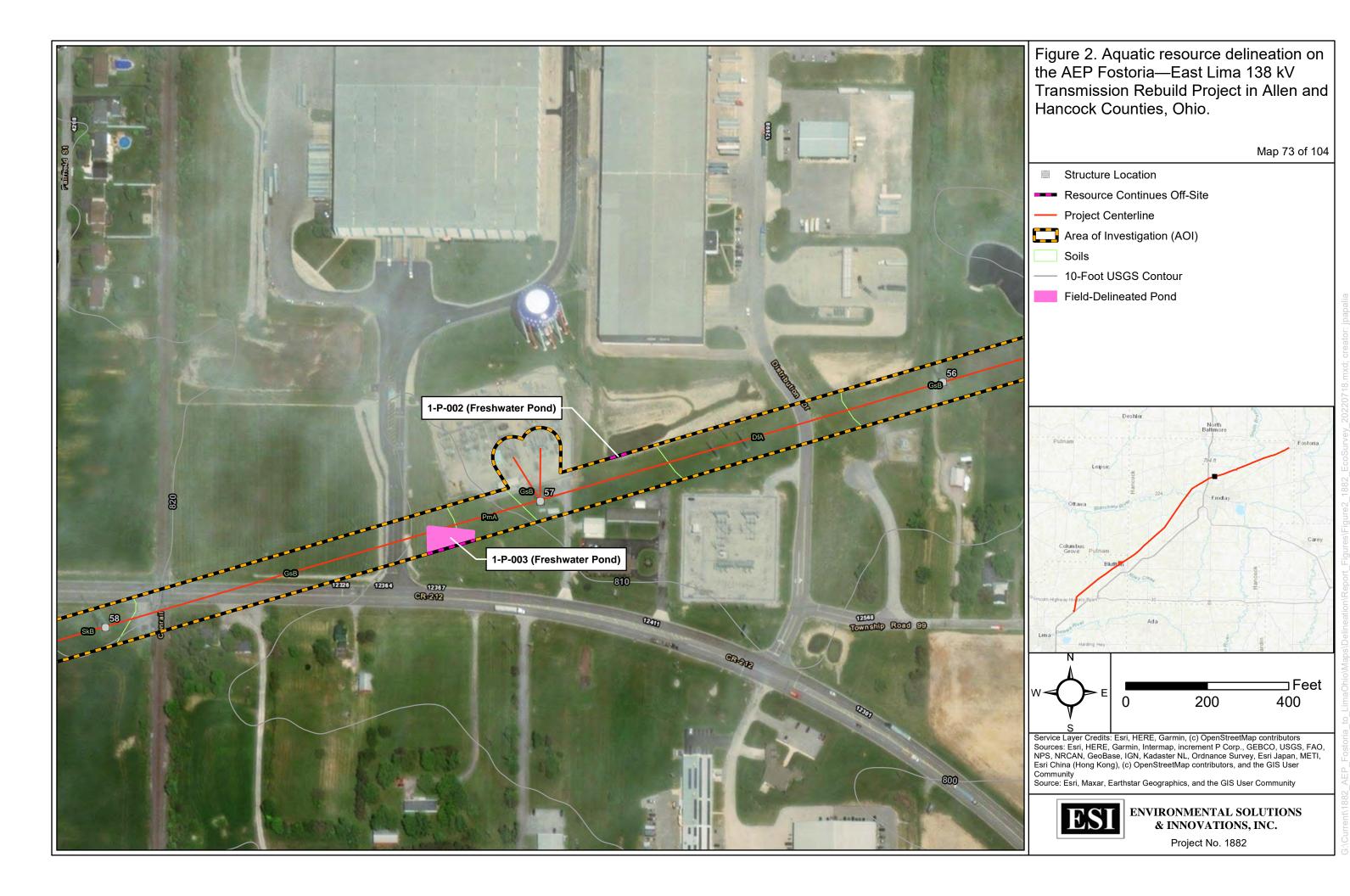
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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



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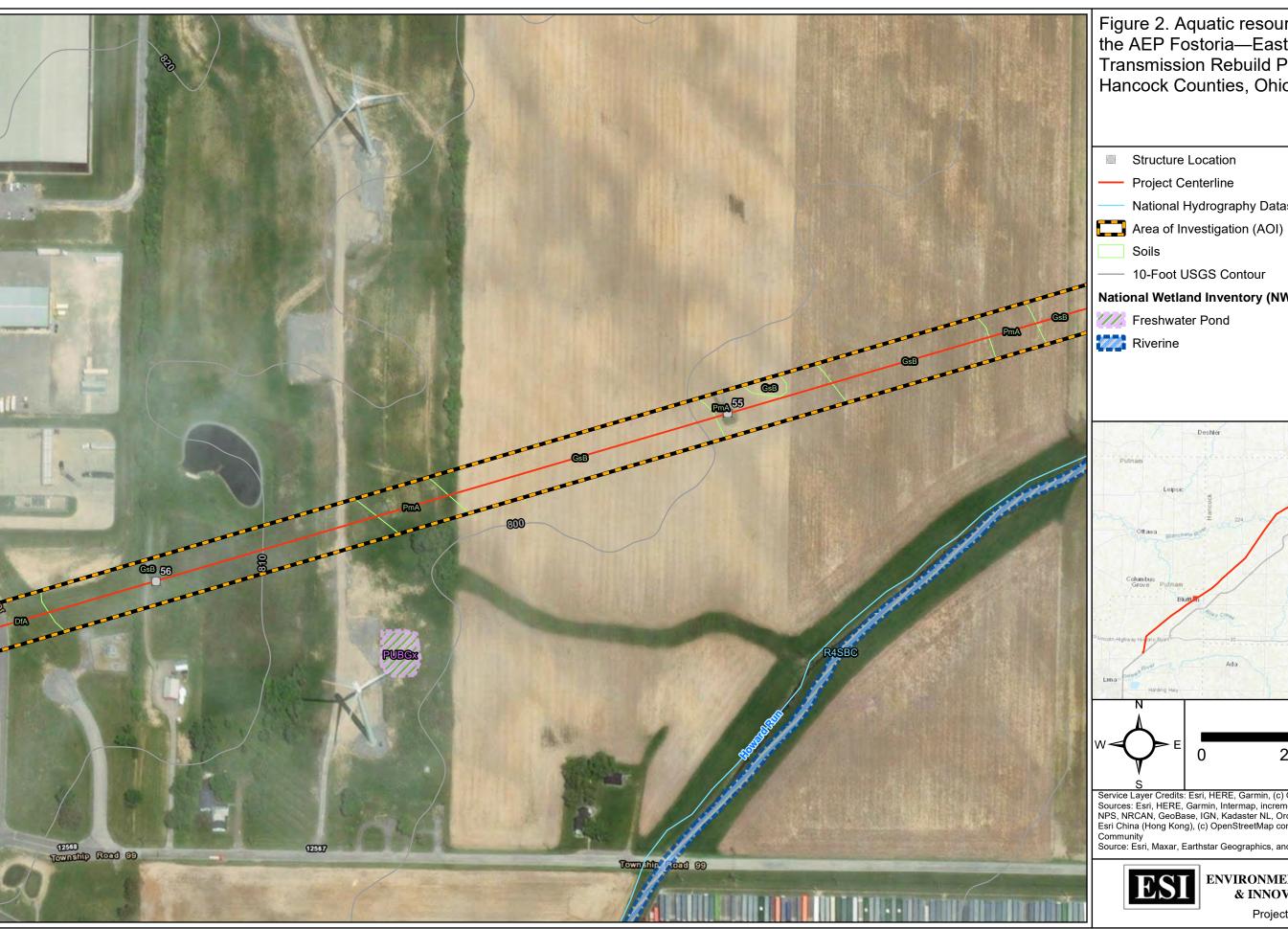


Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio.

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Structure Location

Project Centerline

National Hydrography Dataset (NHD) Stream

10-Foot USGS Contour

National Wetland Inventory (NWI)

//// Freshwater Pond



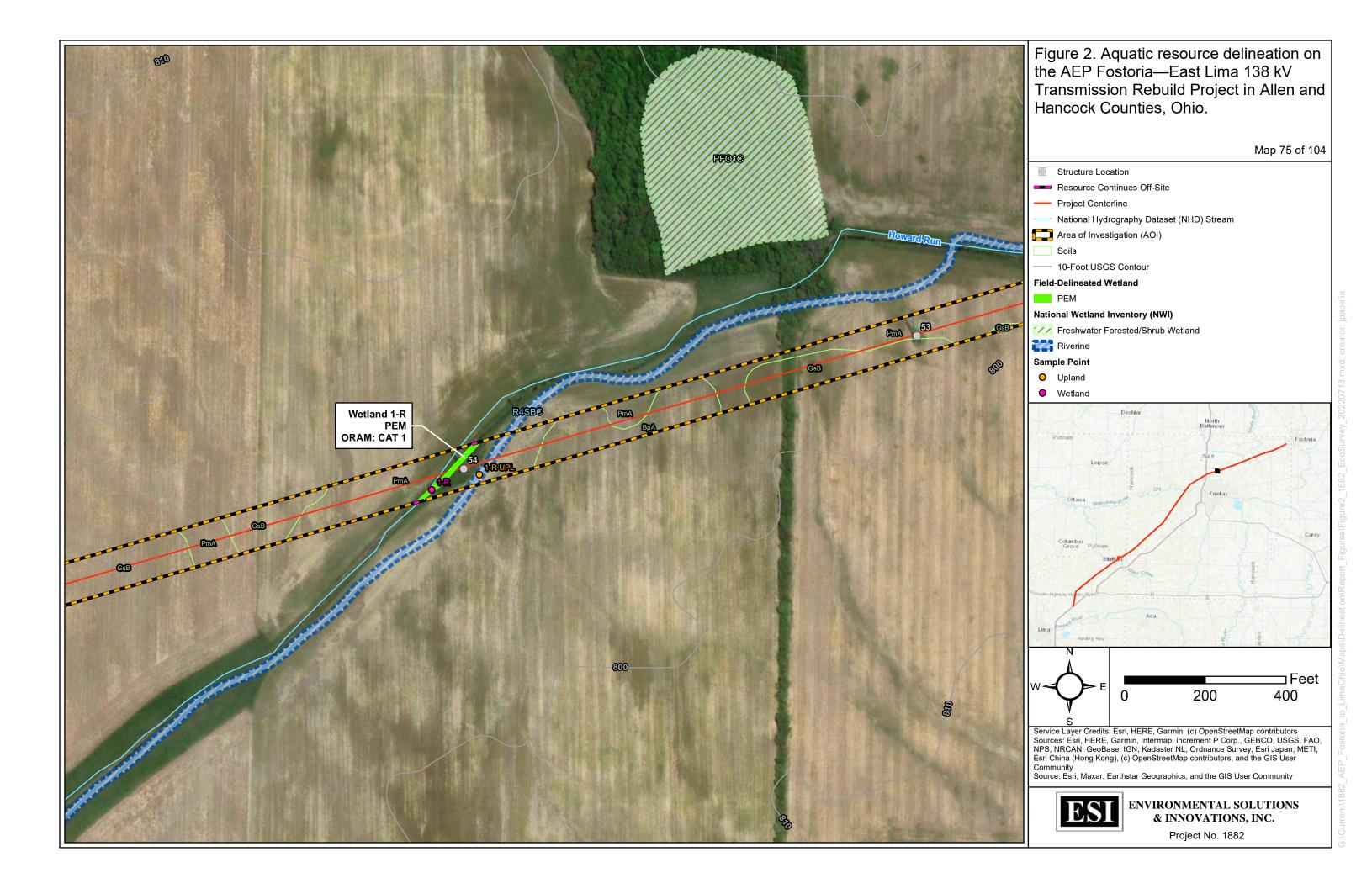


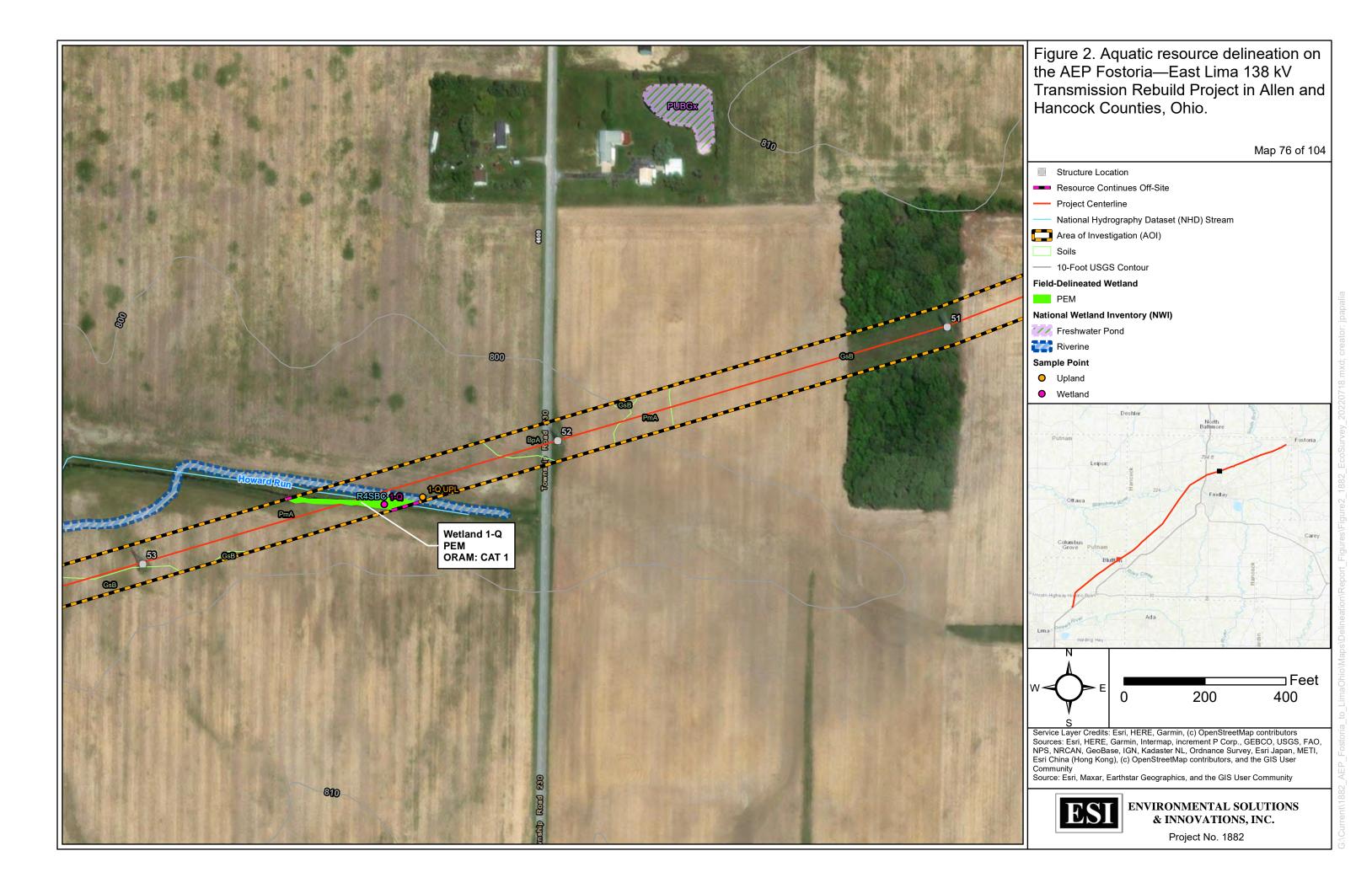
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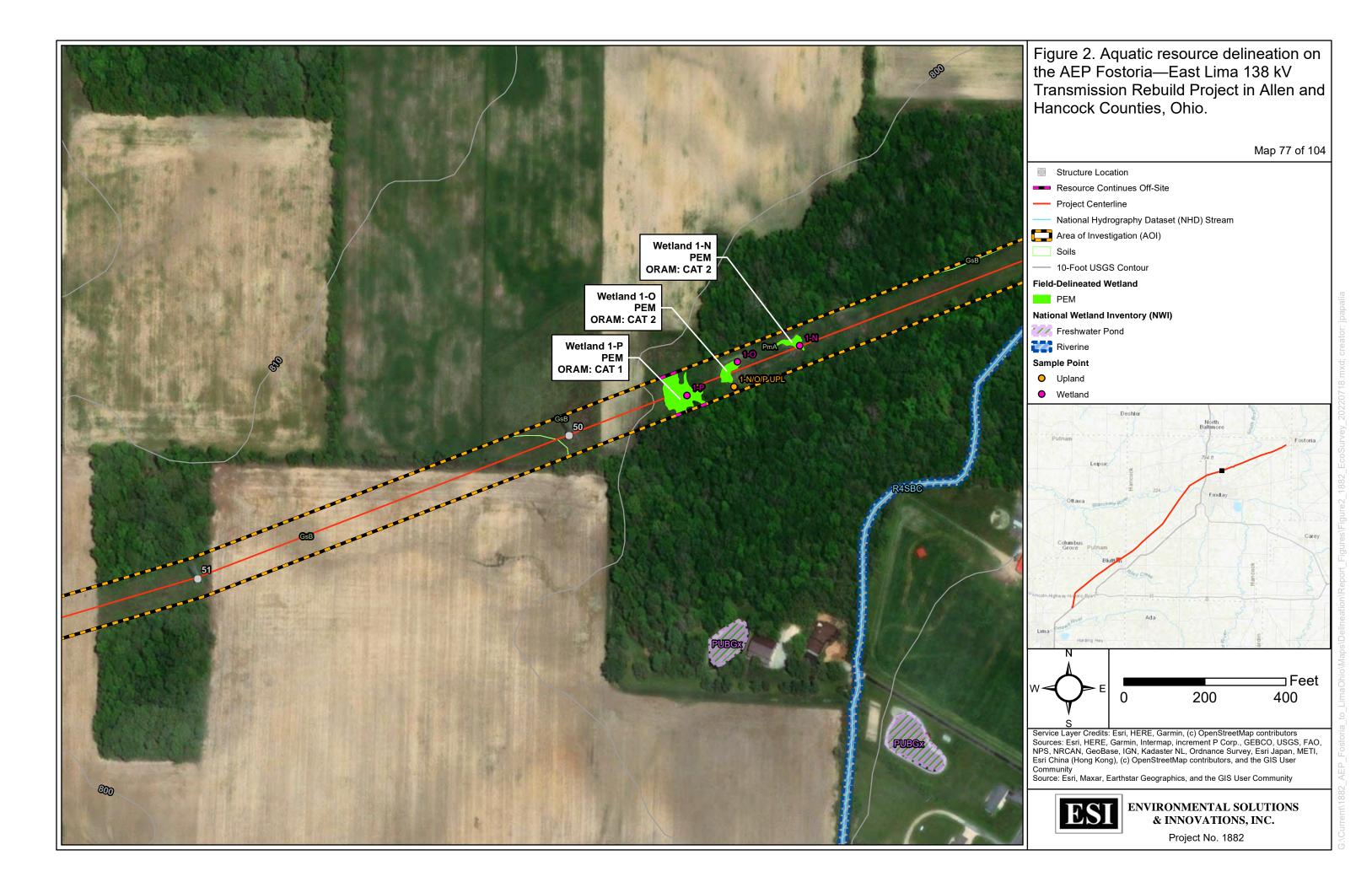
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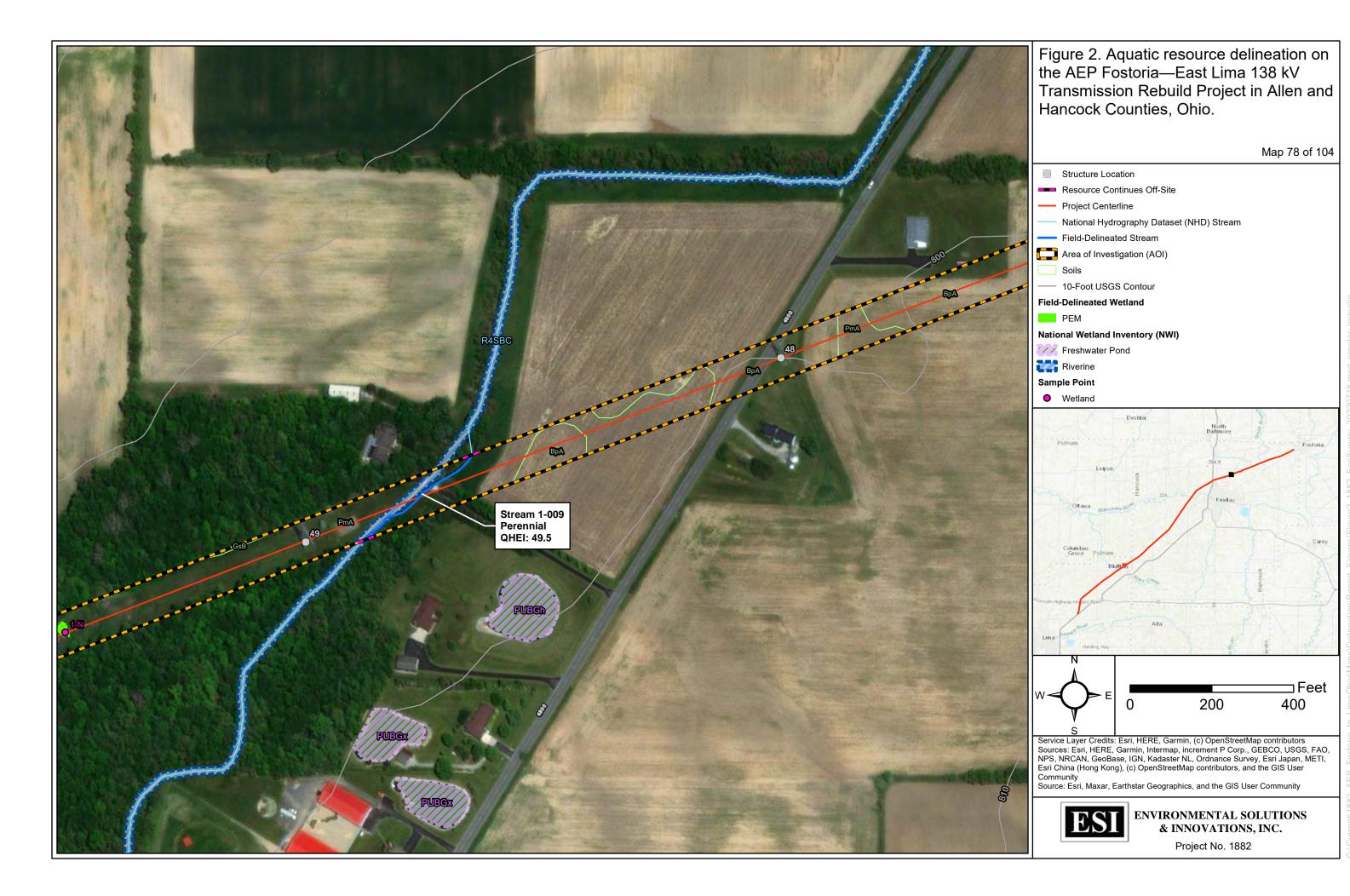


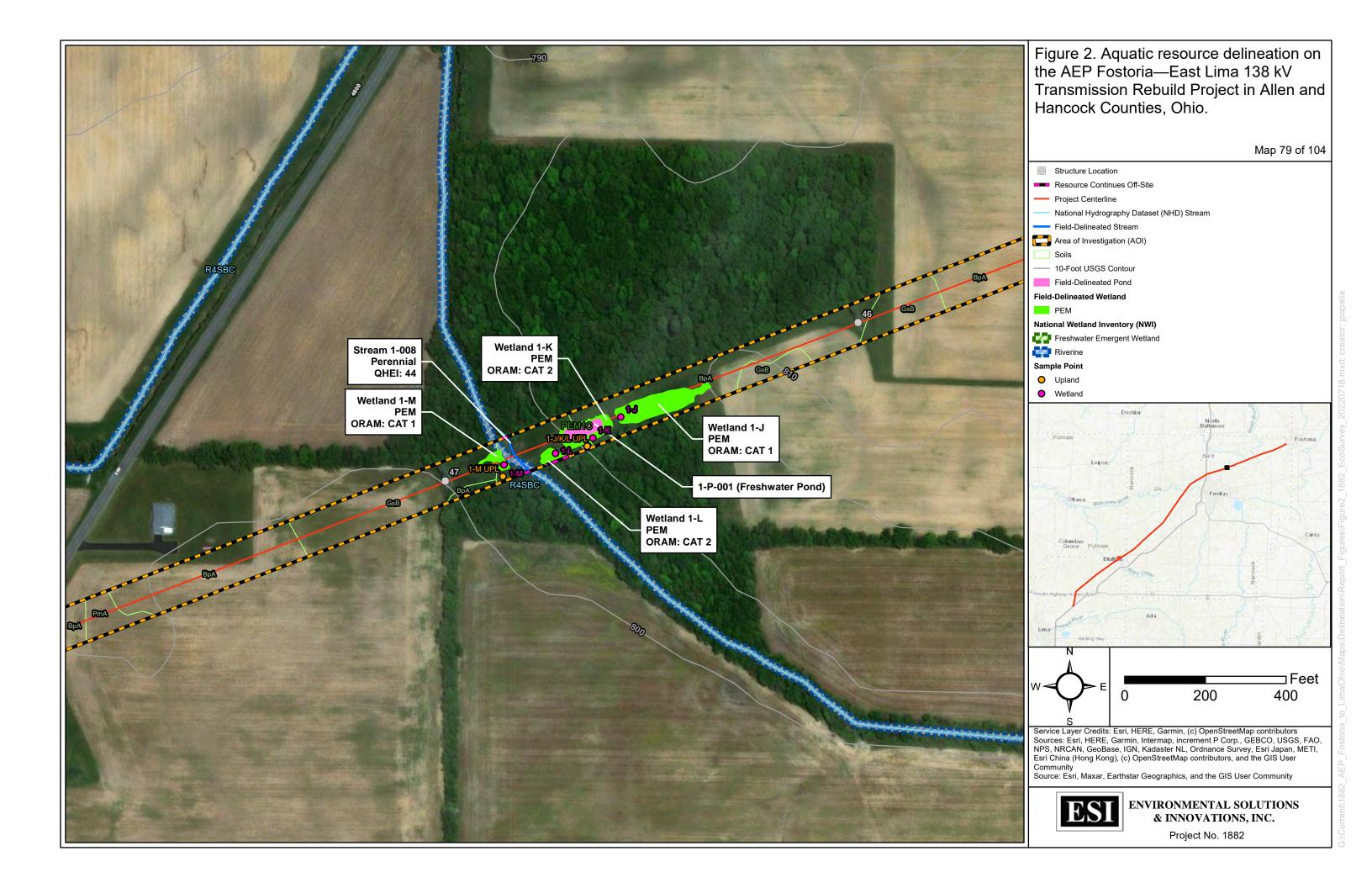
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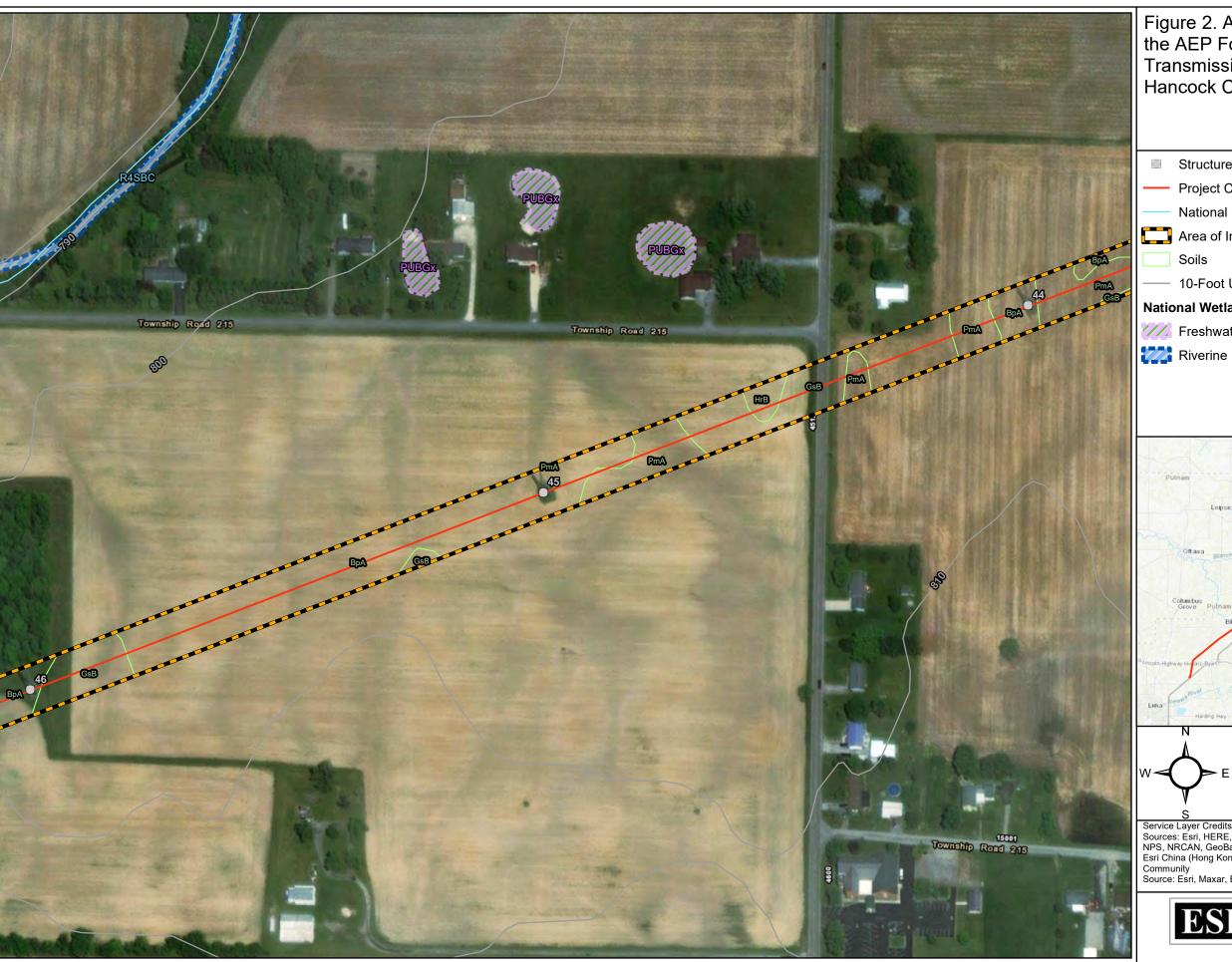


Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio.

Map 80 of 104

Structure Location

Project Centerline

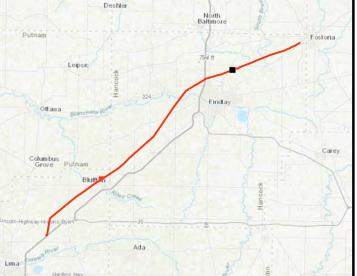
National Hydrography Dataset (NHD) Stream

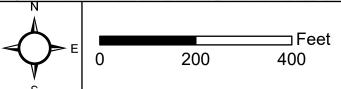
Area of Investigation (AOI)

10-Foot USGS Contour

**National Wetland Inventory (NWI)** 

//// Freshwater Pond





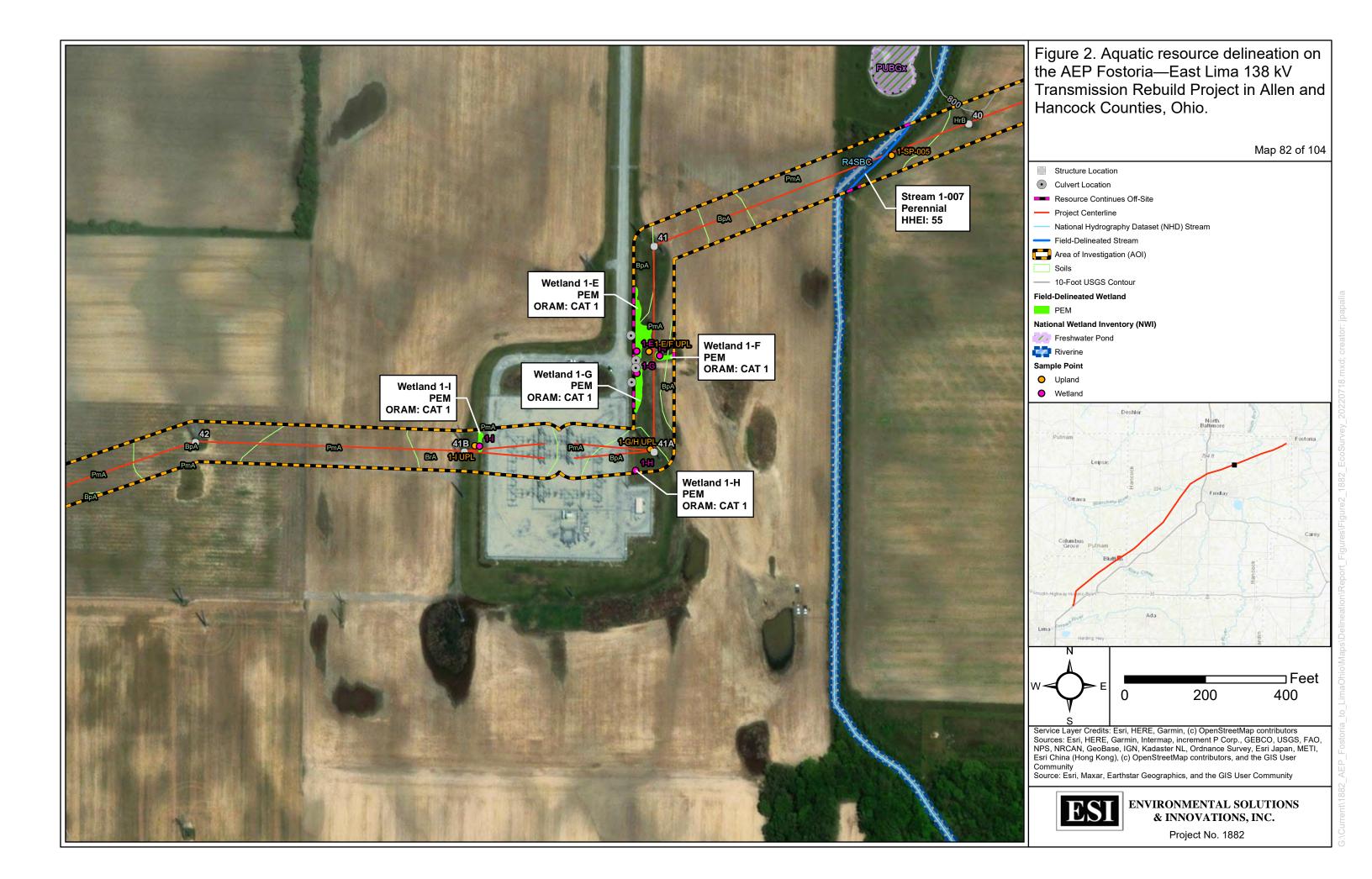
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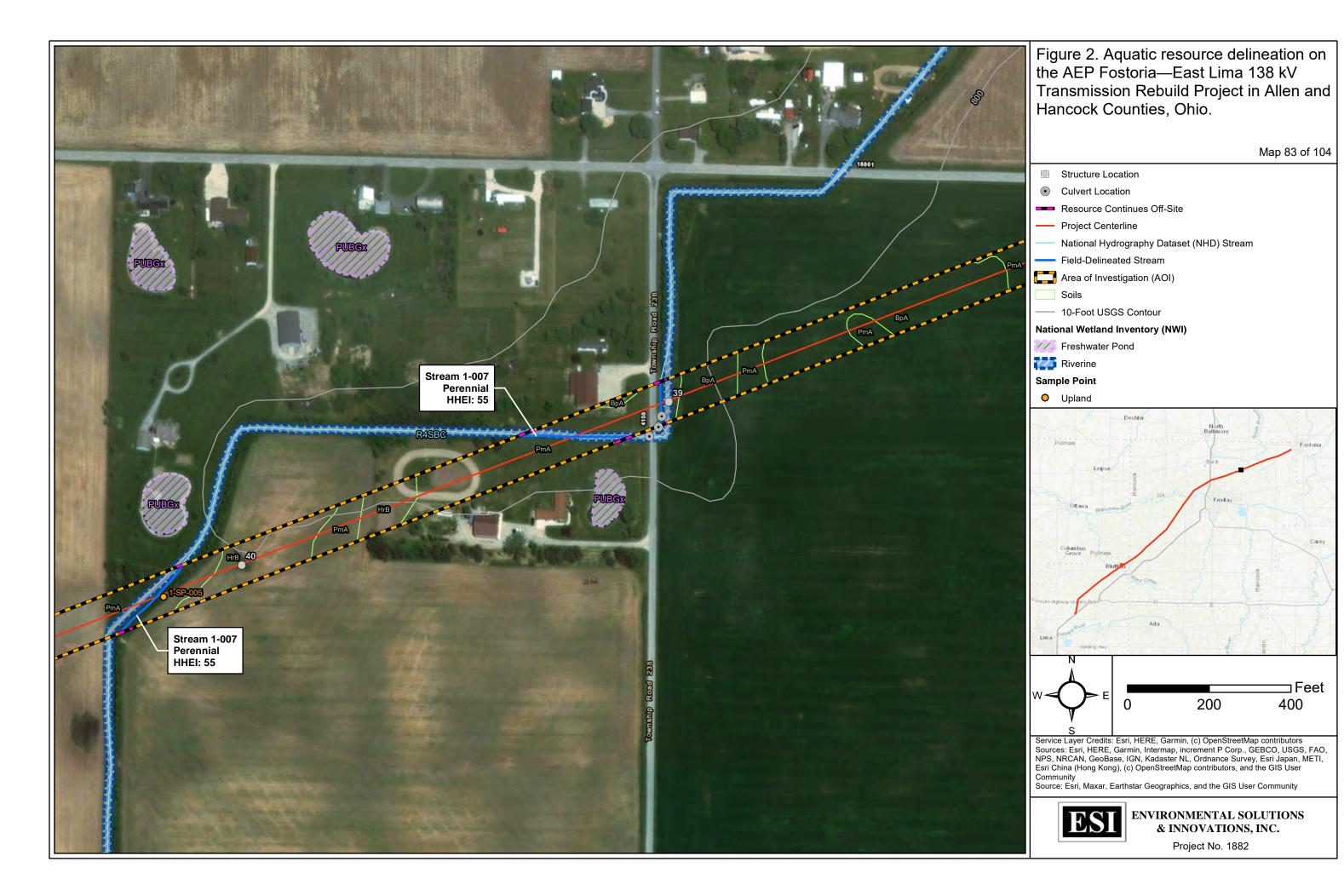
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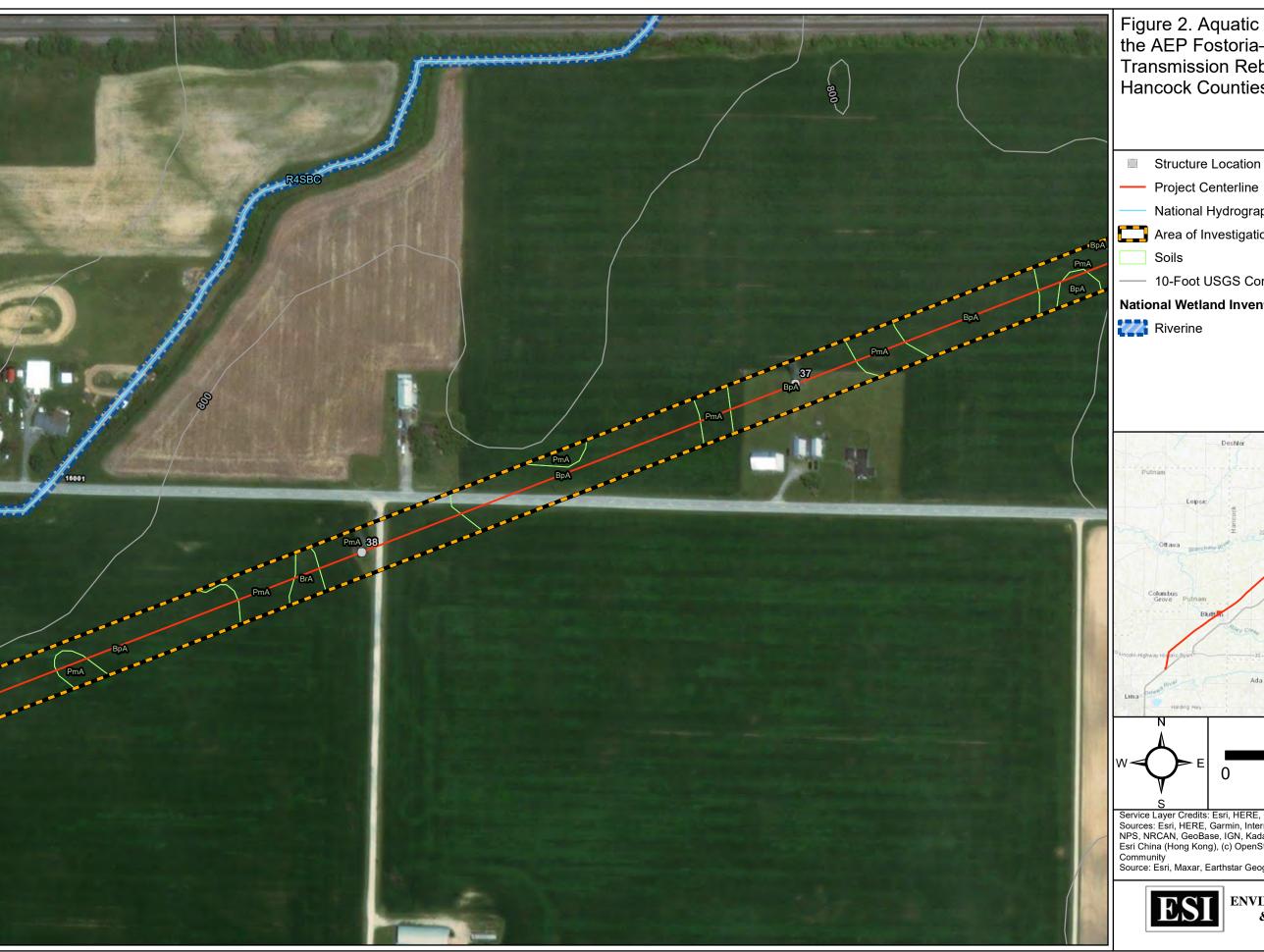


Figure 2. Aquatic resource delineation on the AEP Fostoria—East Lima 138 kV Transmission Rebuild Project in Allen and Hancock Counties, Ohio.

Map 84 of 104

Project Centerline

National Hydrography Dataset (NHD) Stream

Area of Investigation (AOI)

10-Foot USGS Contour

National Wetland Inventory (NWI)

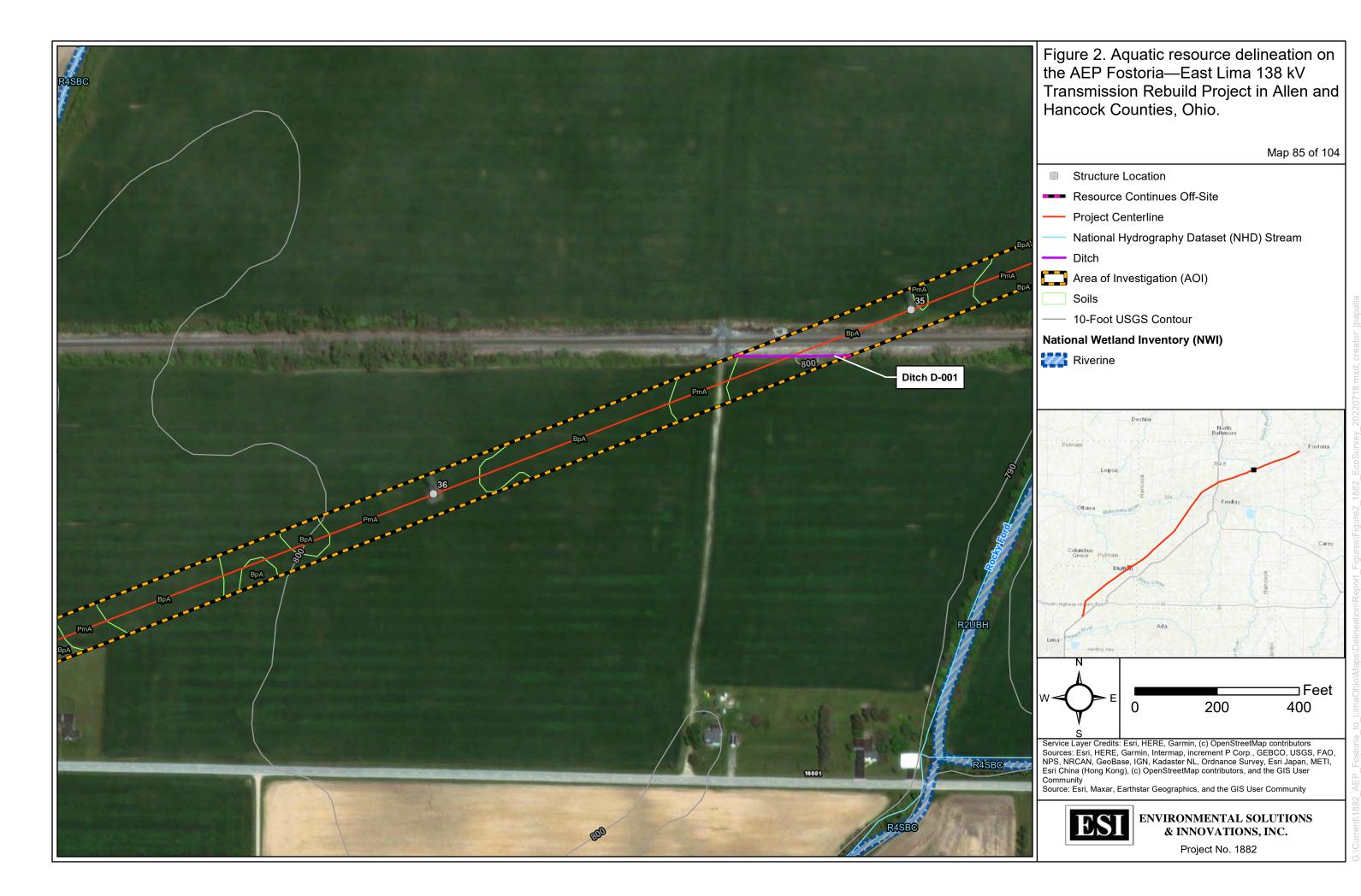


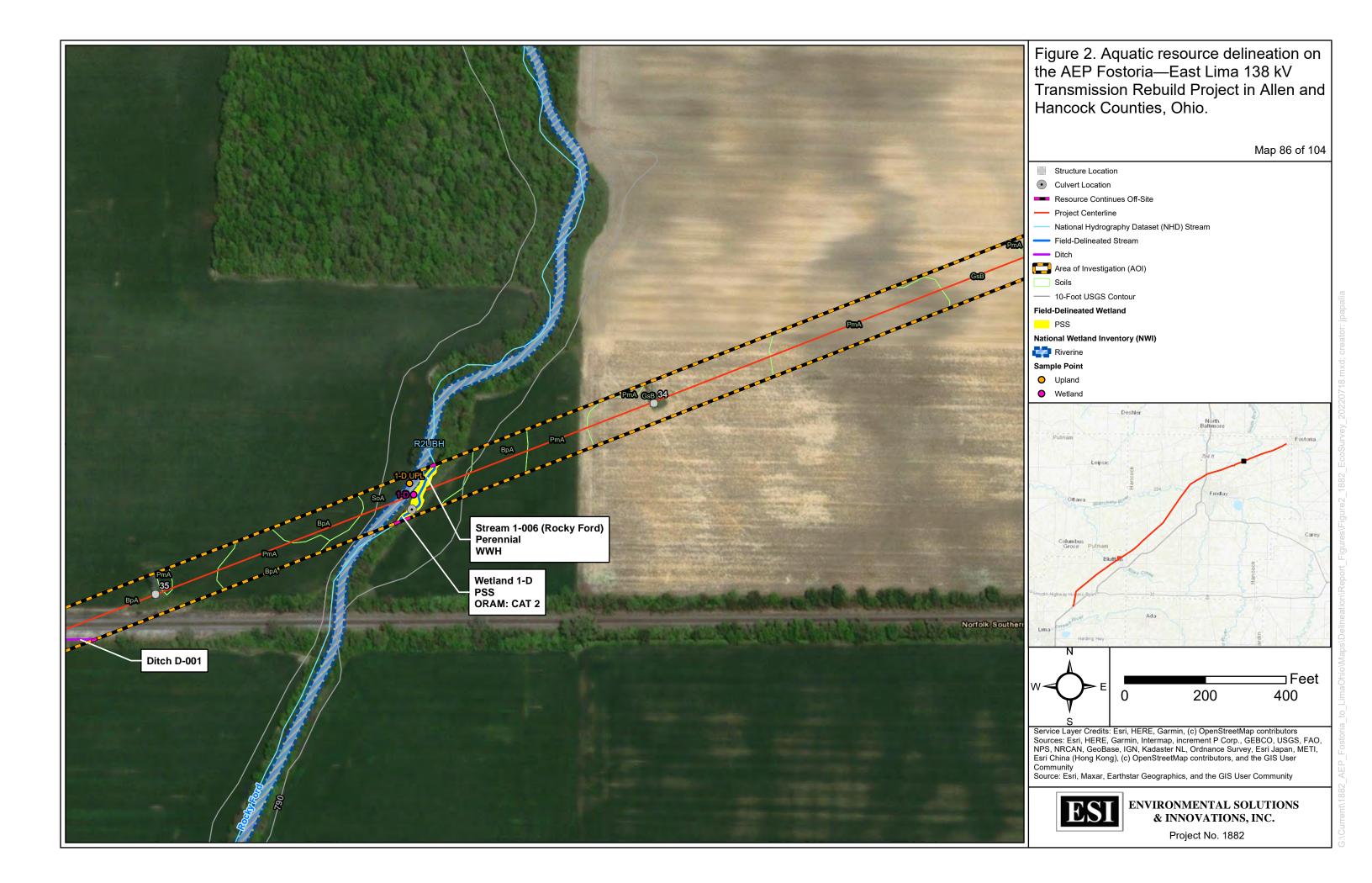


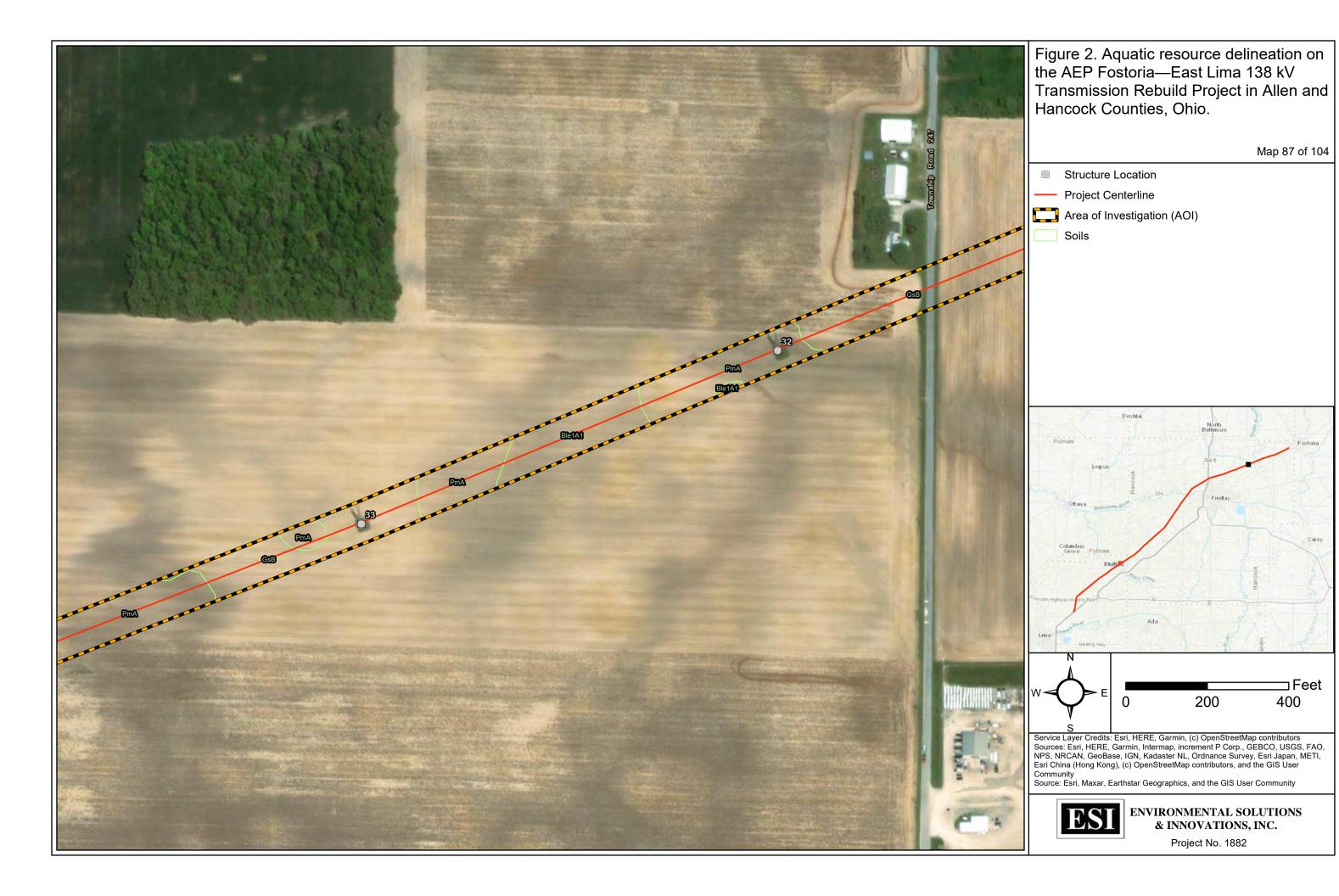
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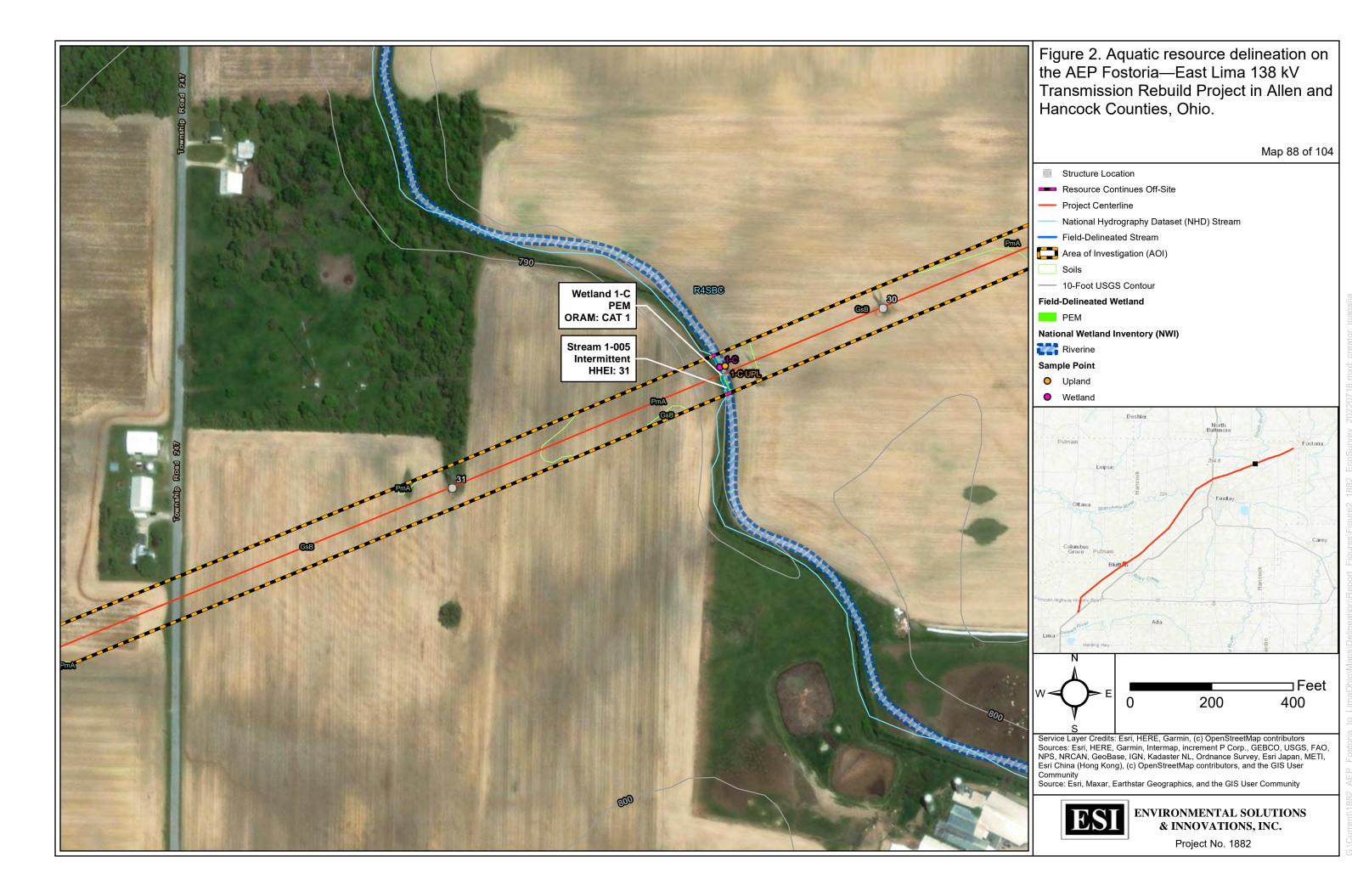


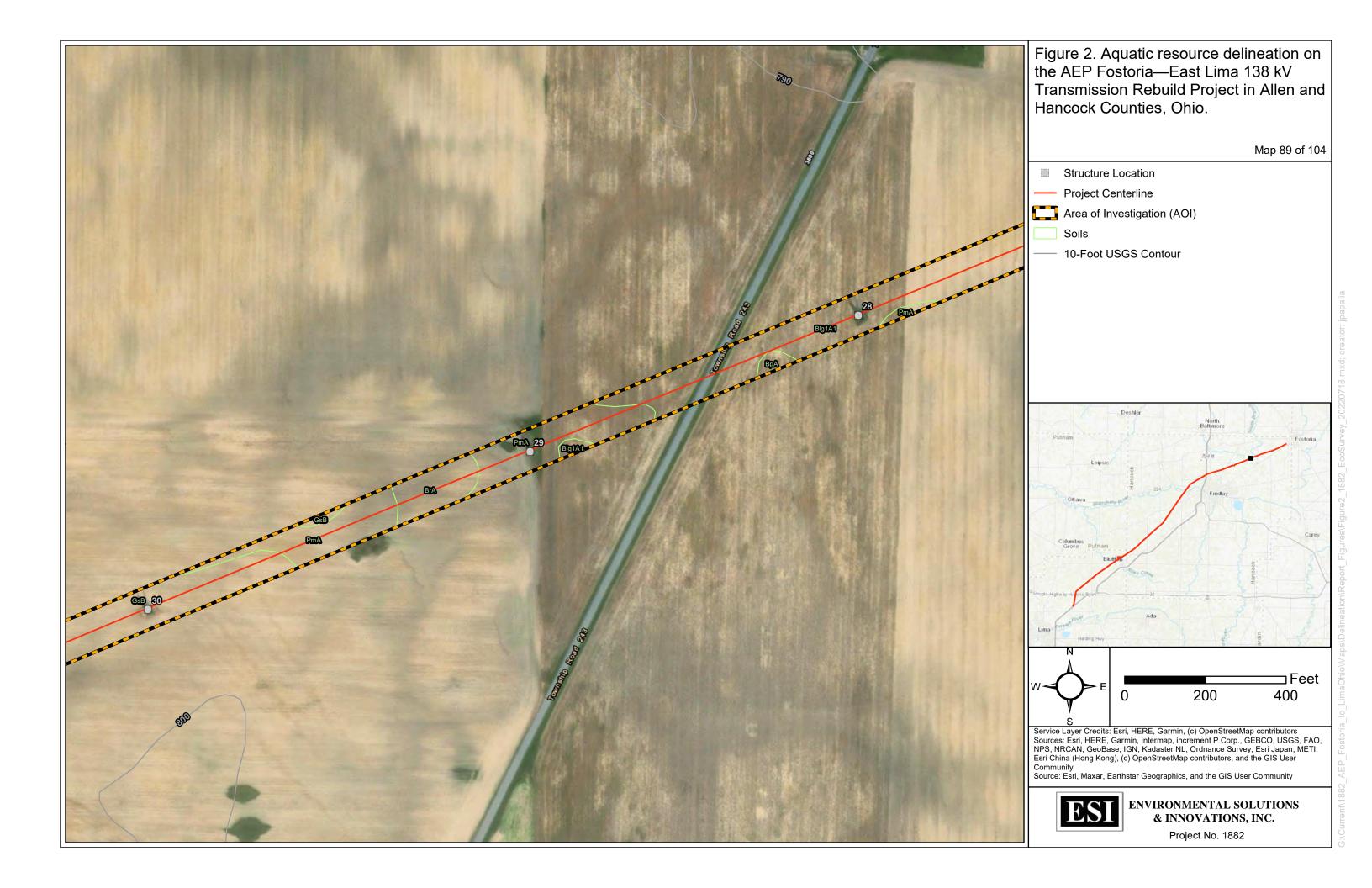
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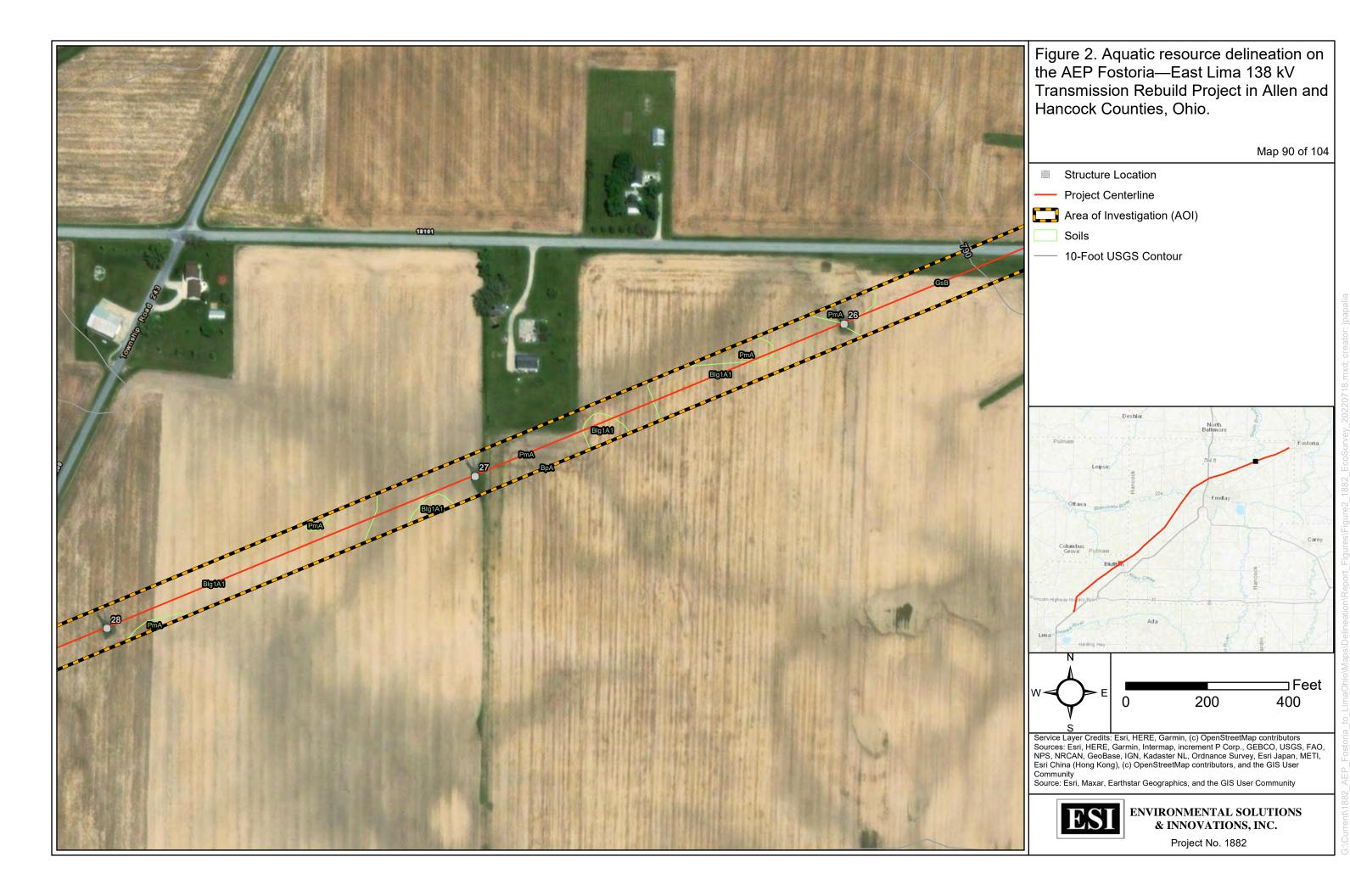


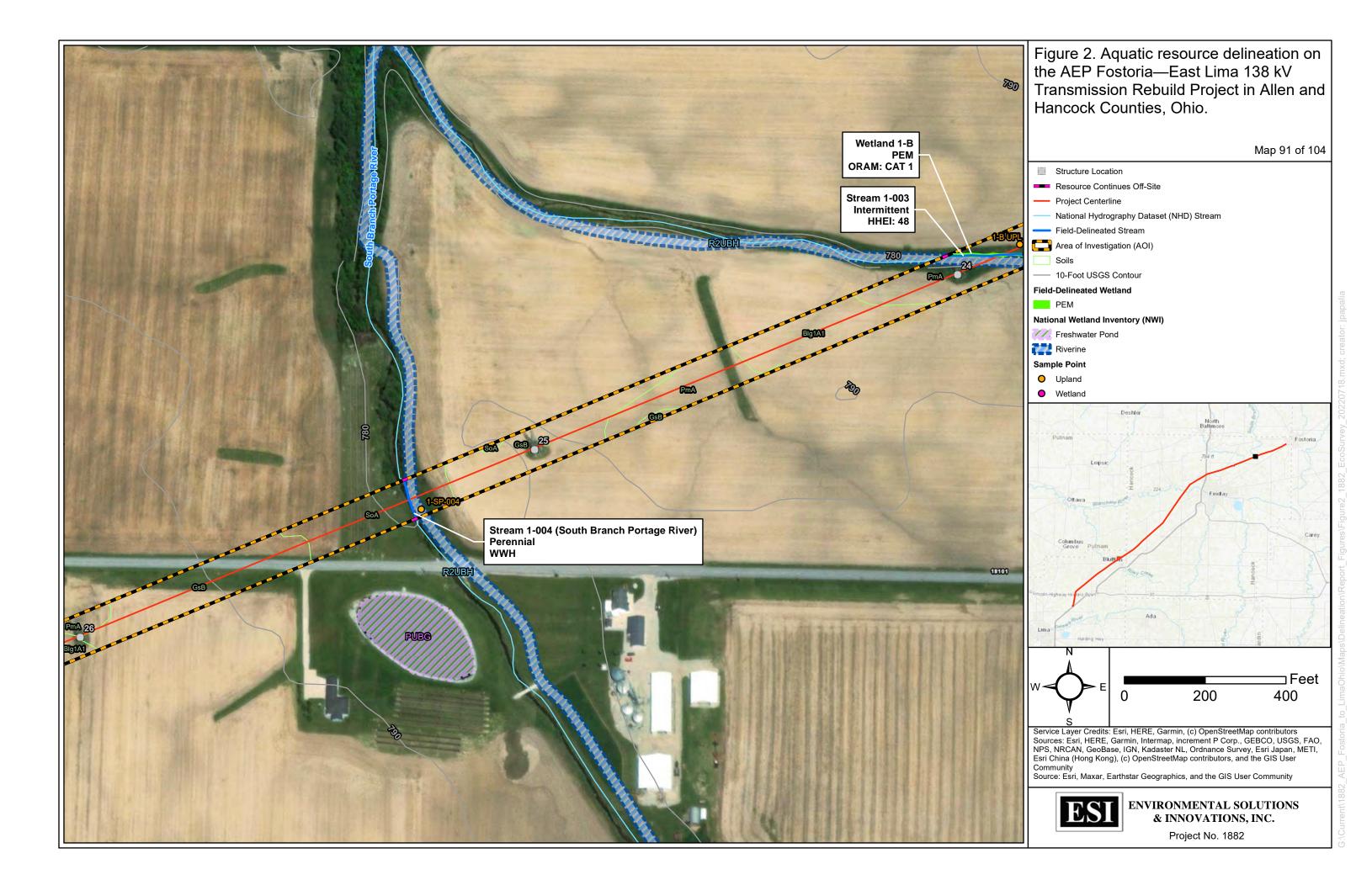


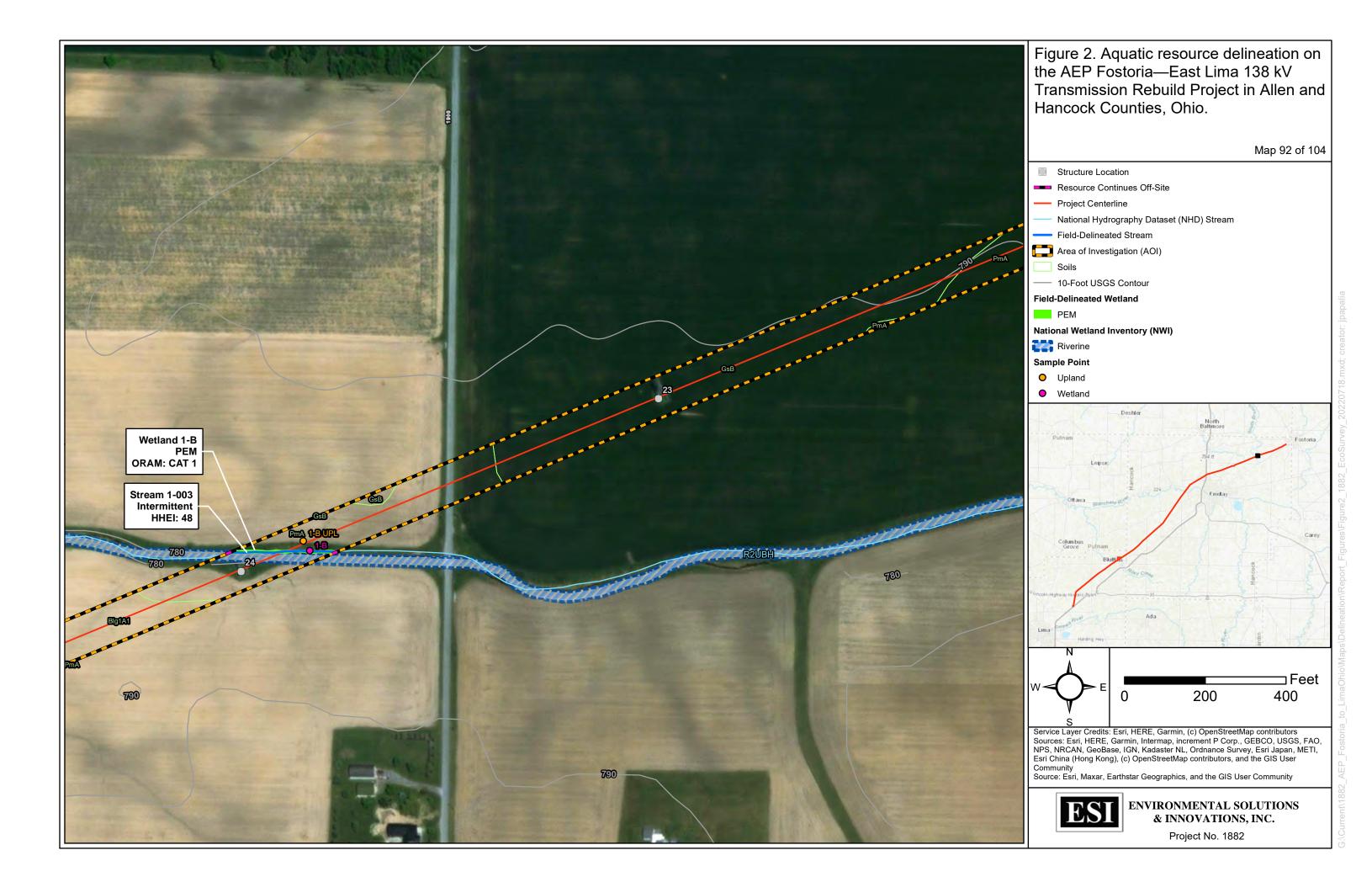


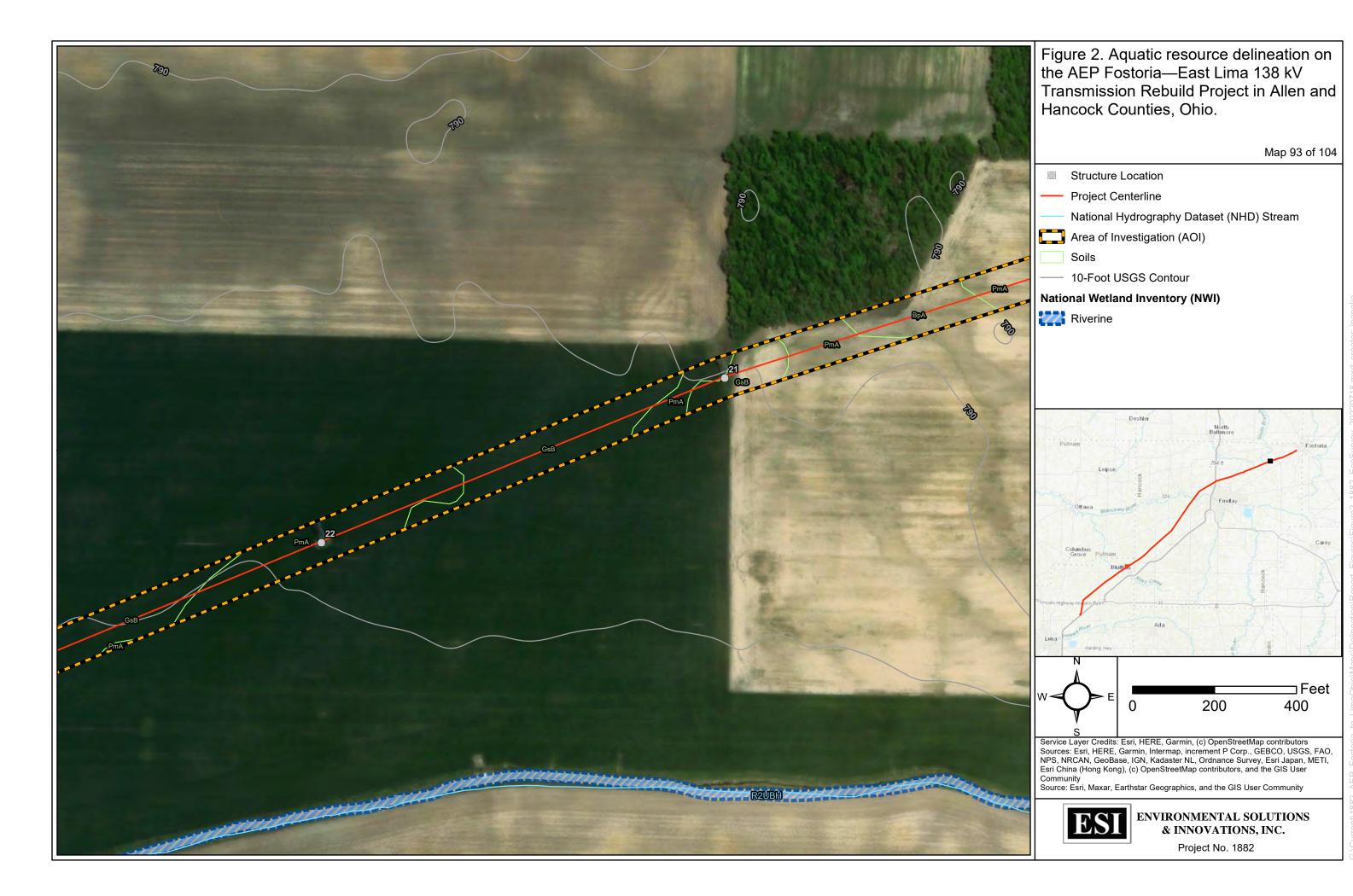


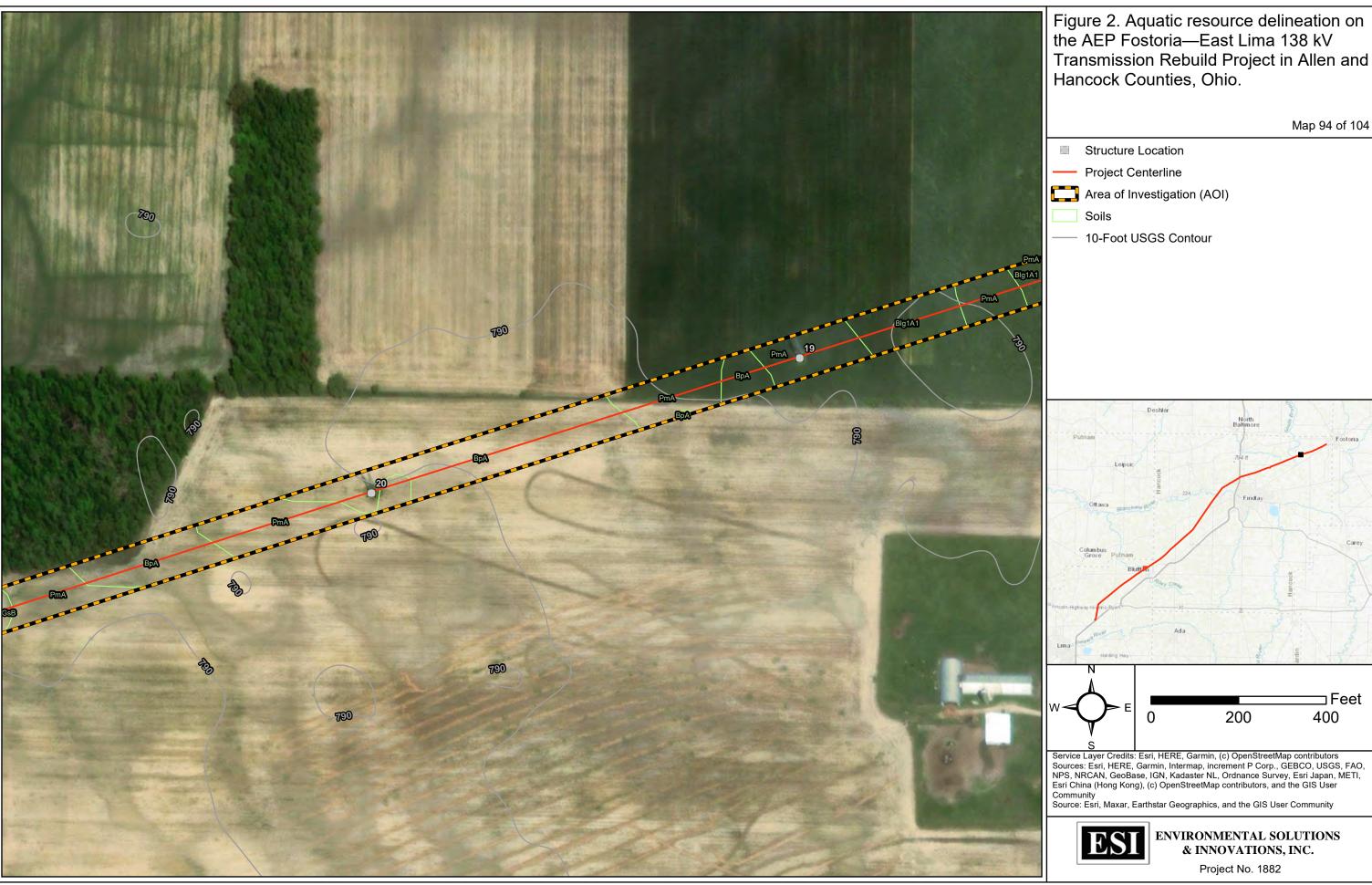












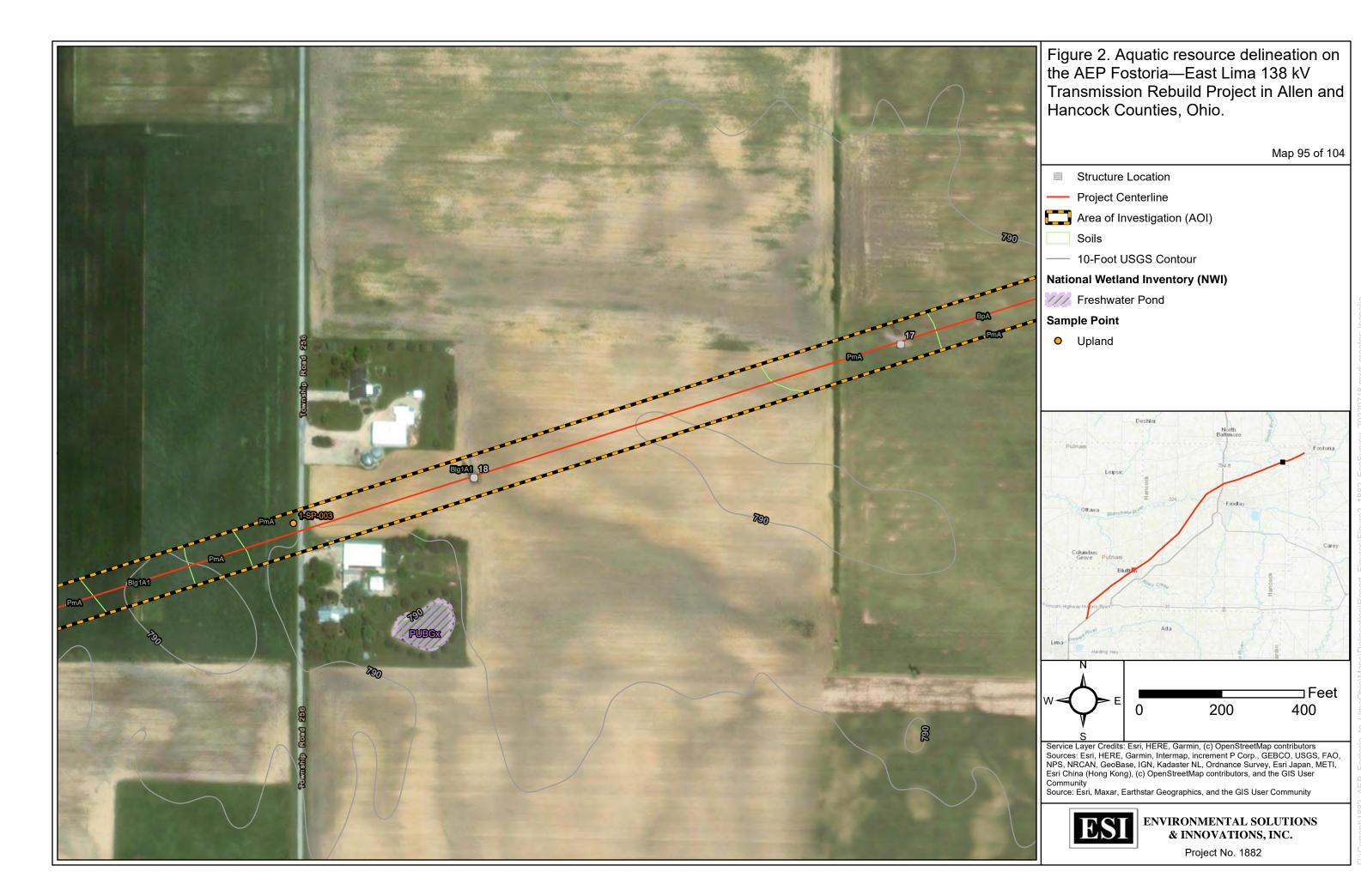
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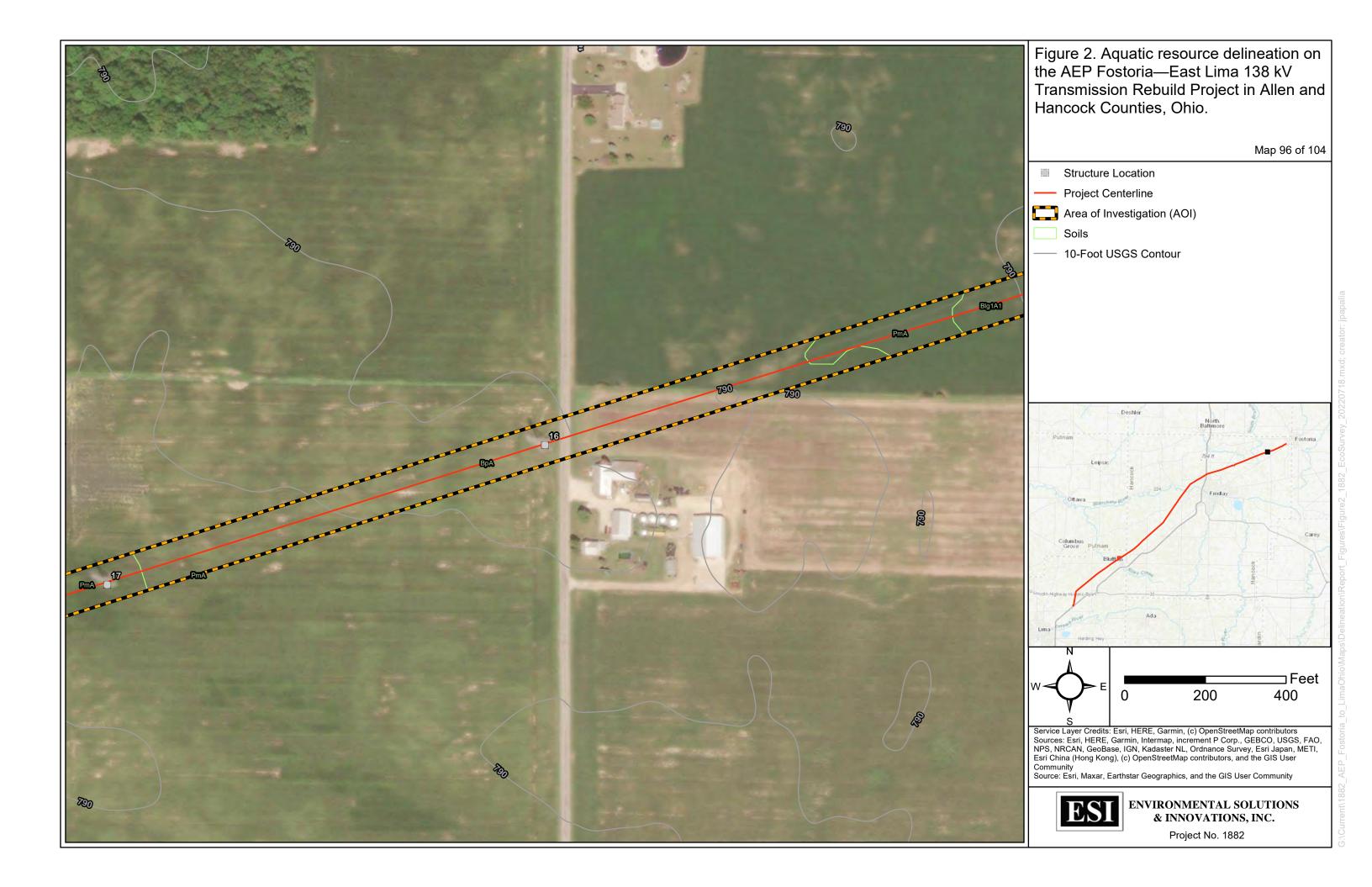
Map 94 of 104

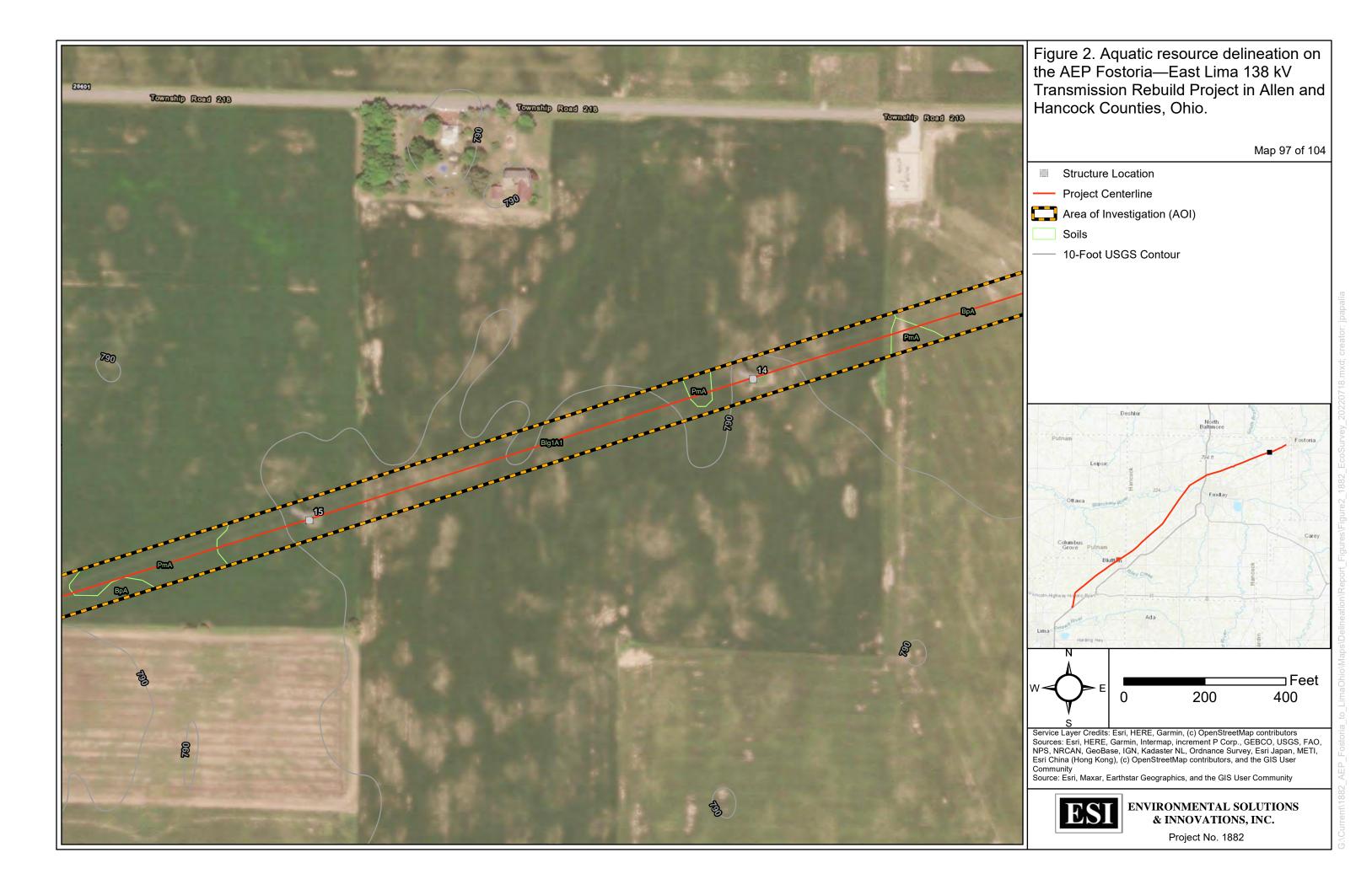


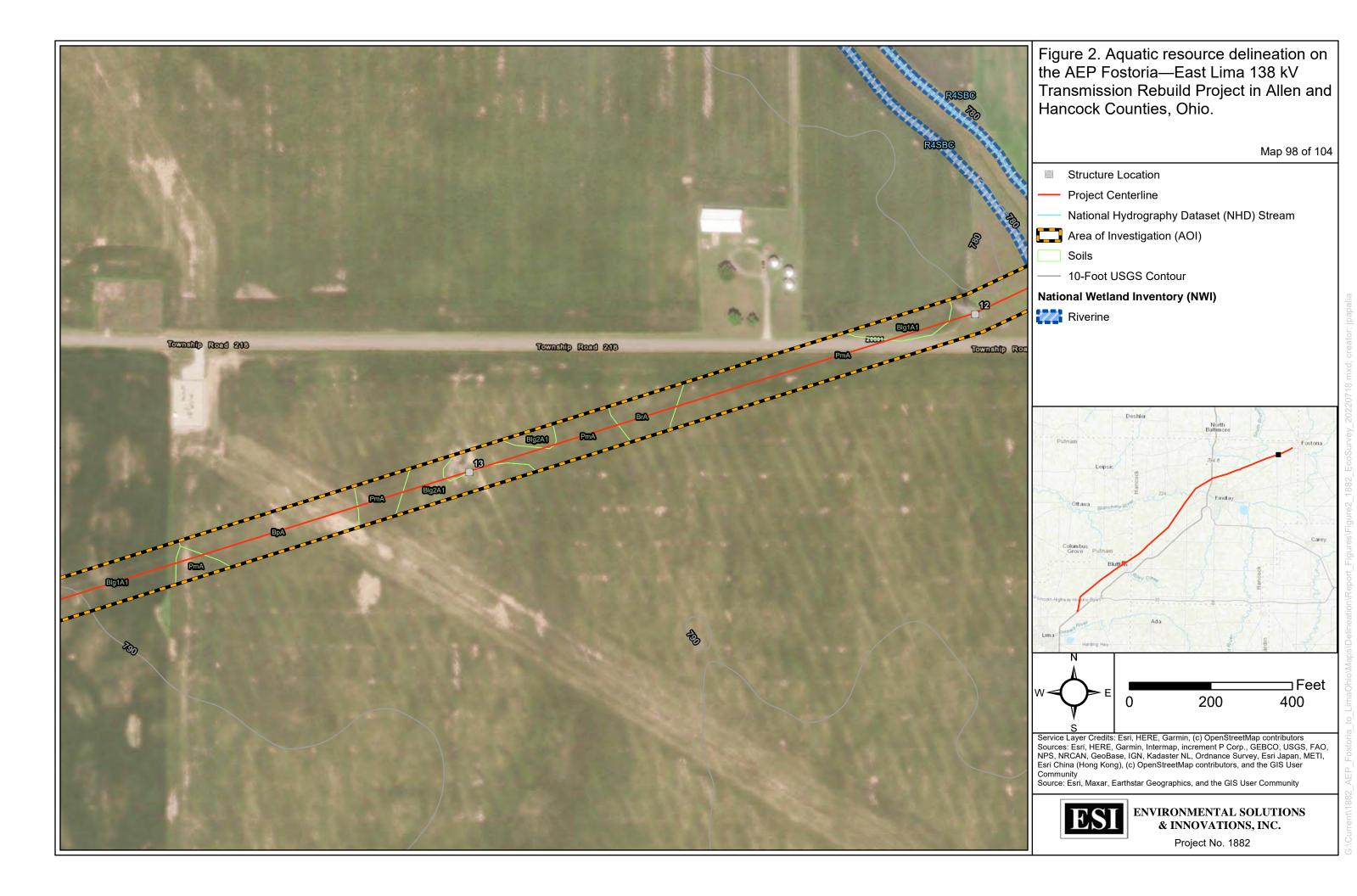


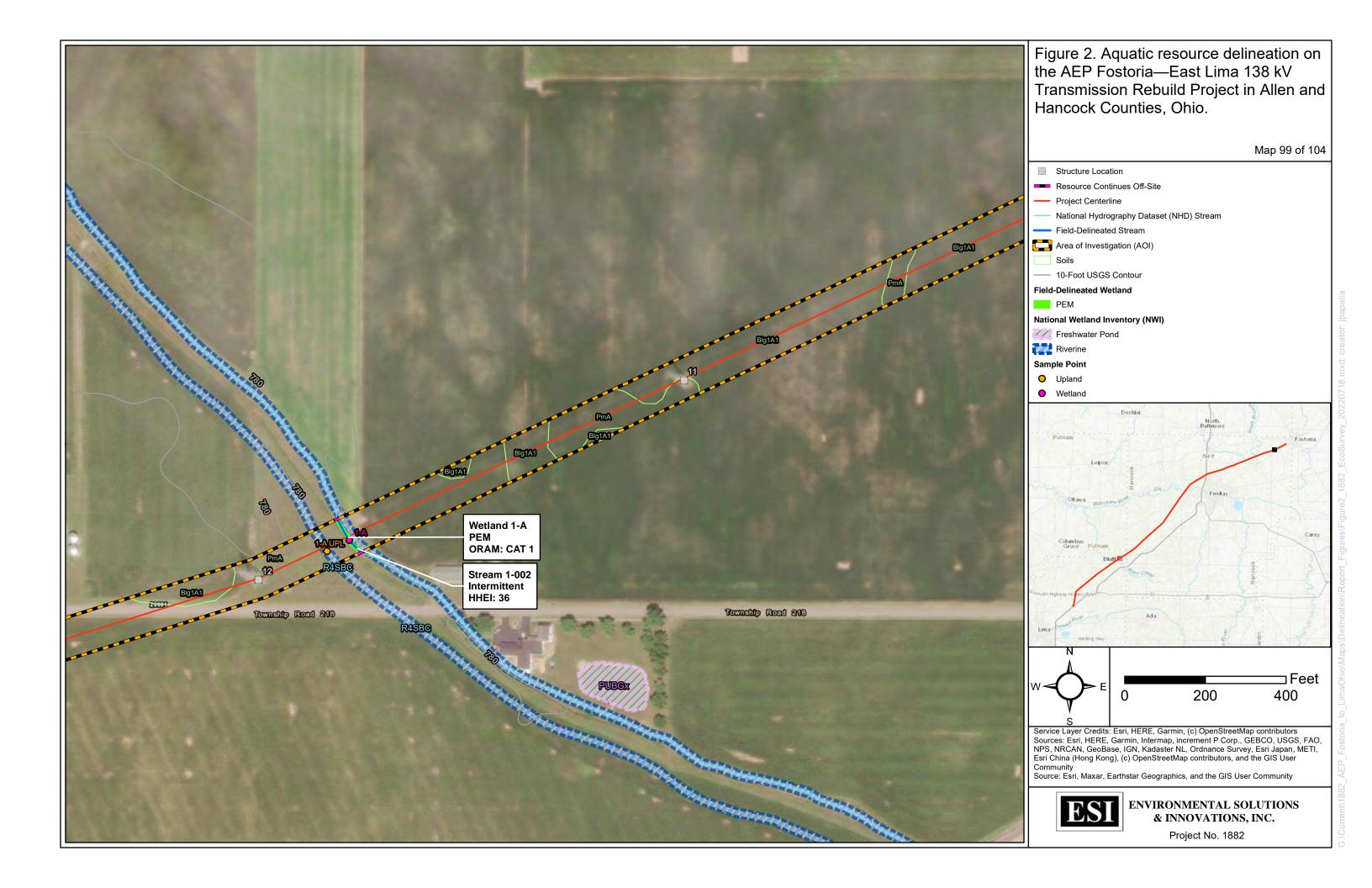
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User

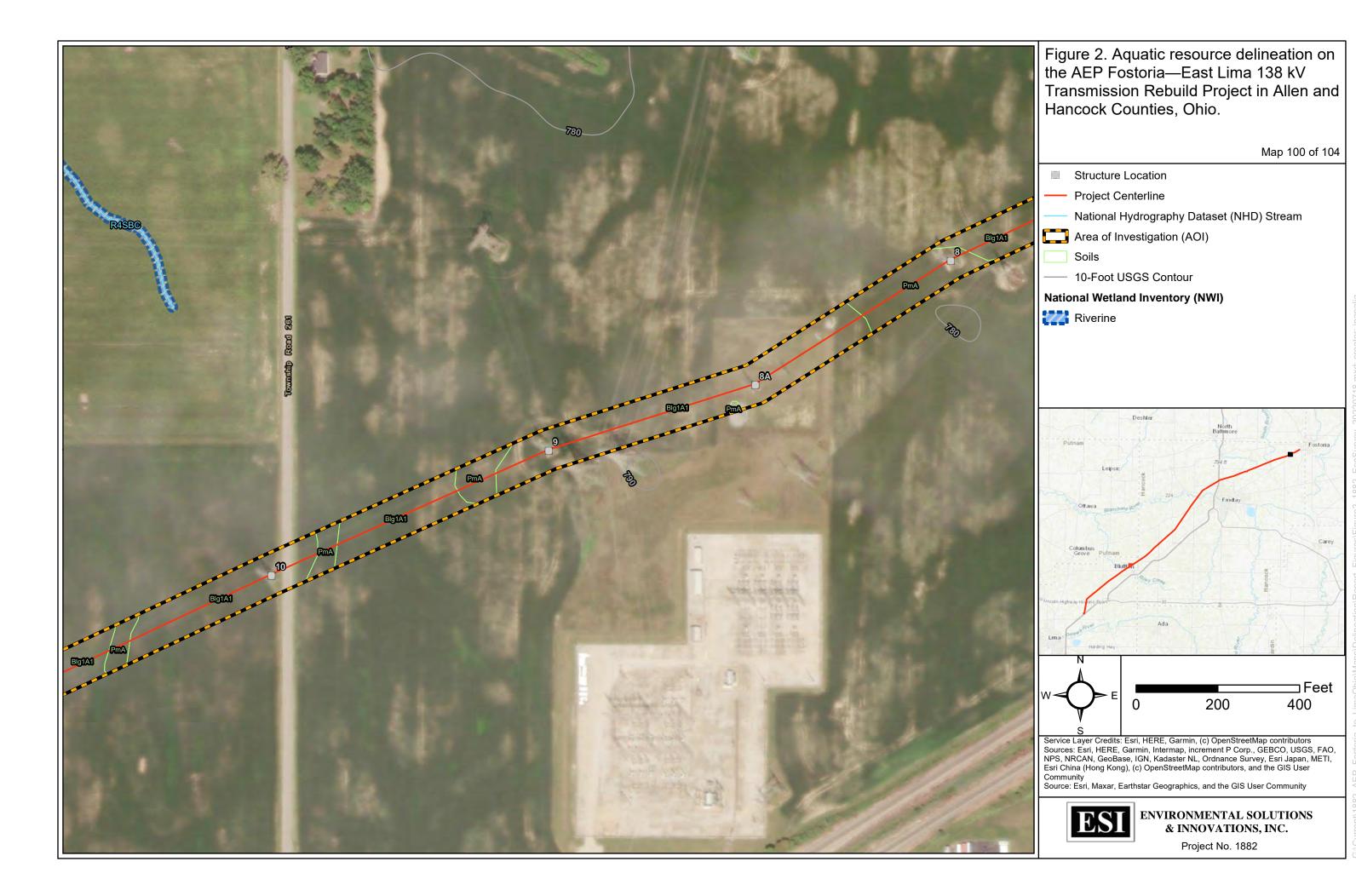


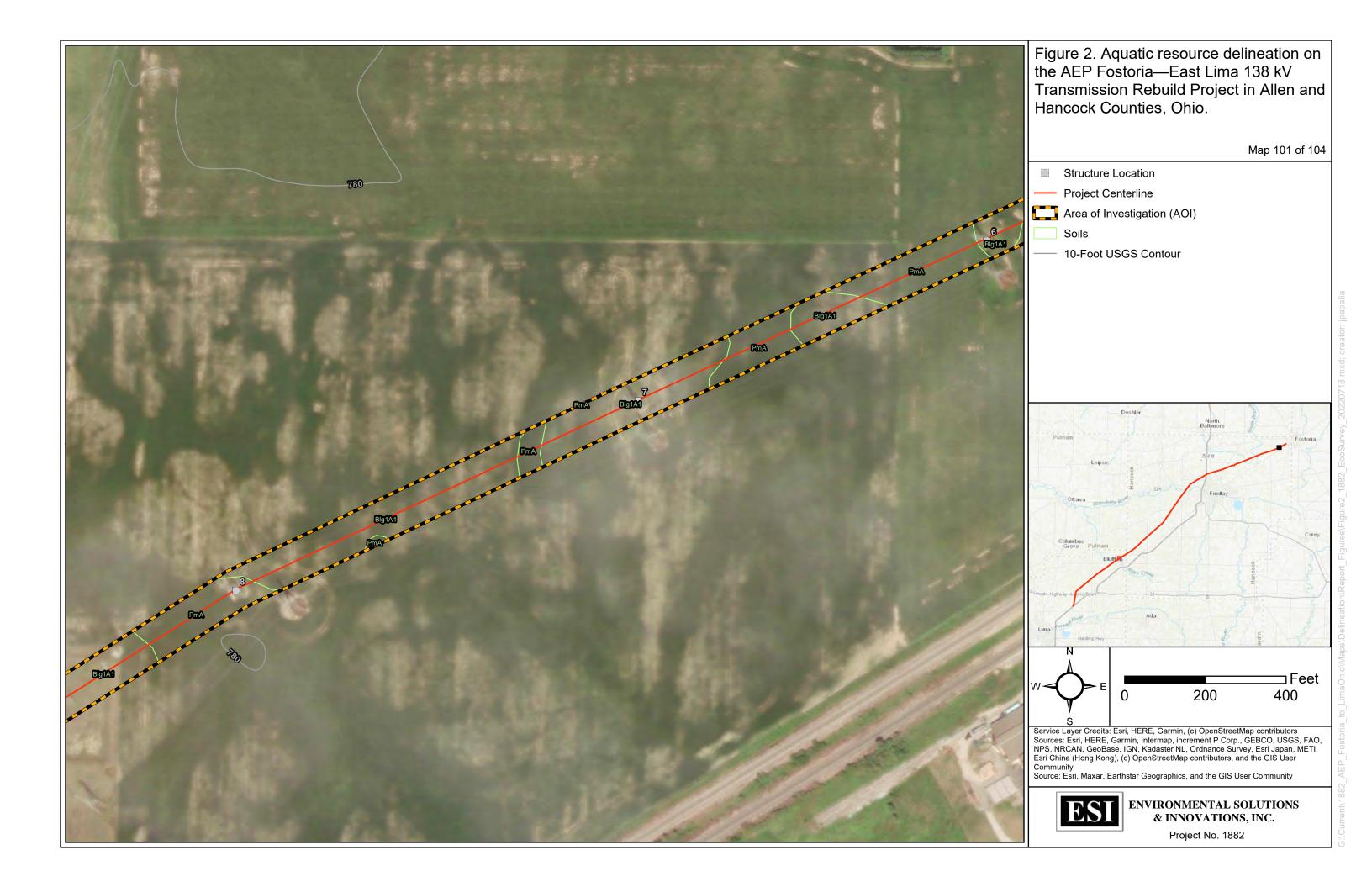


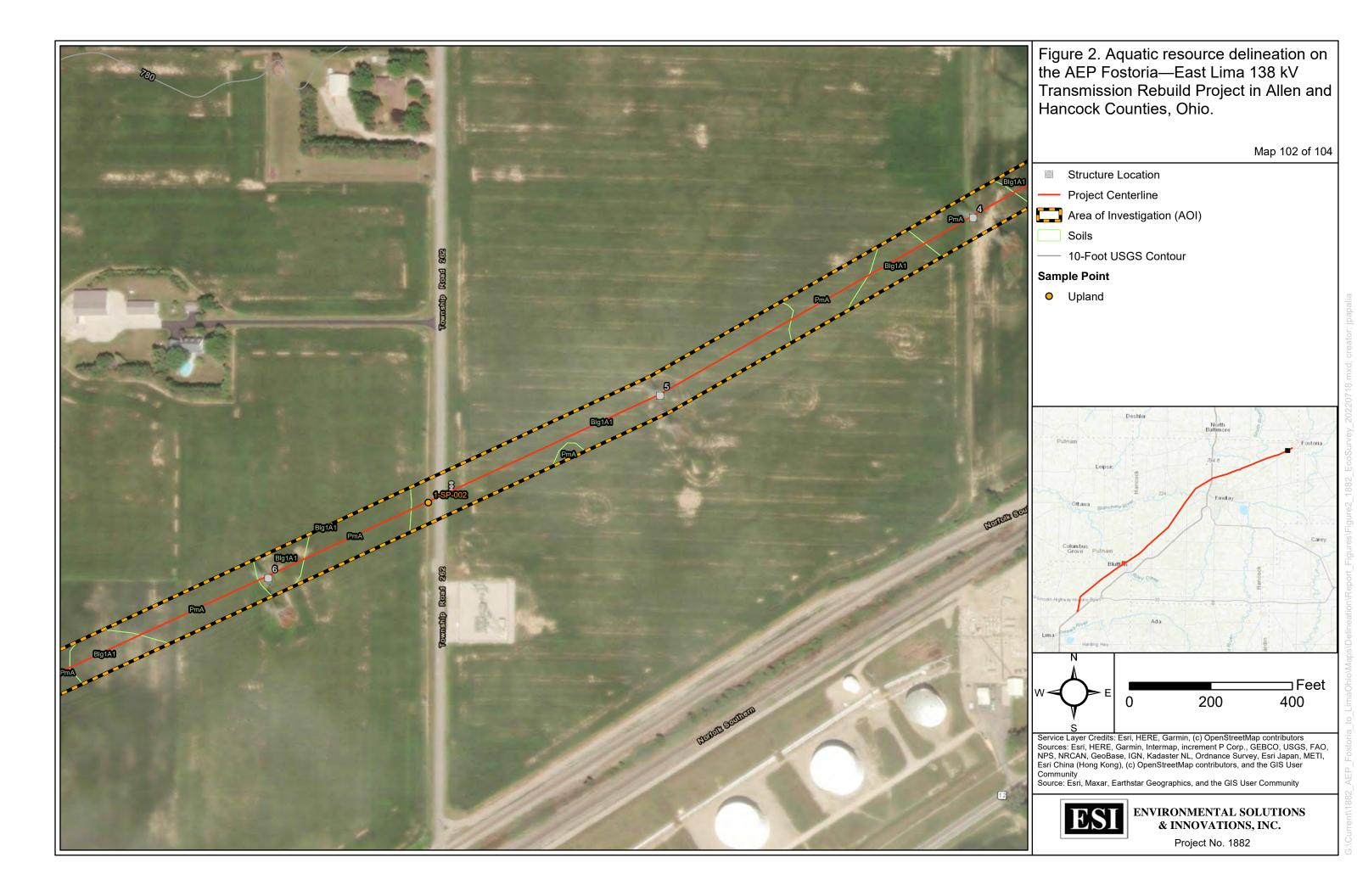


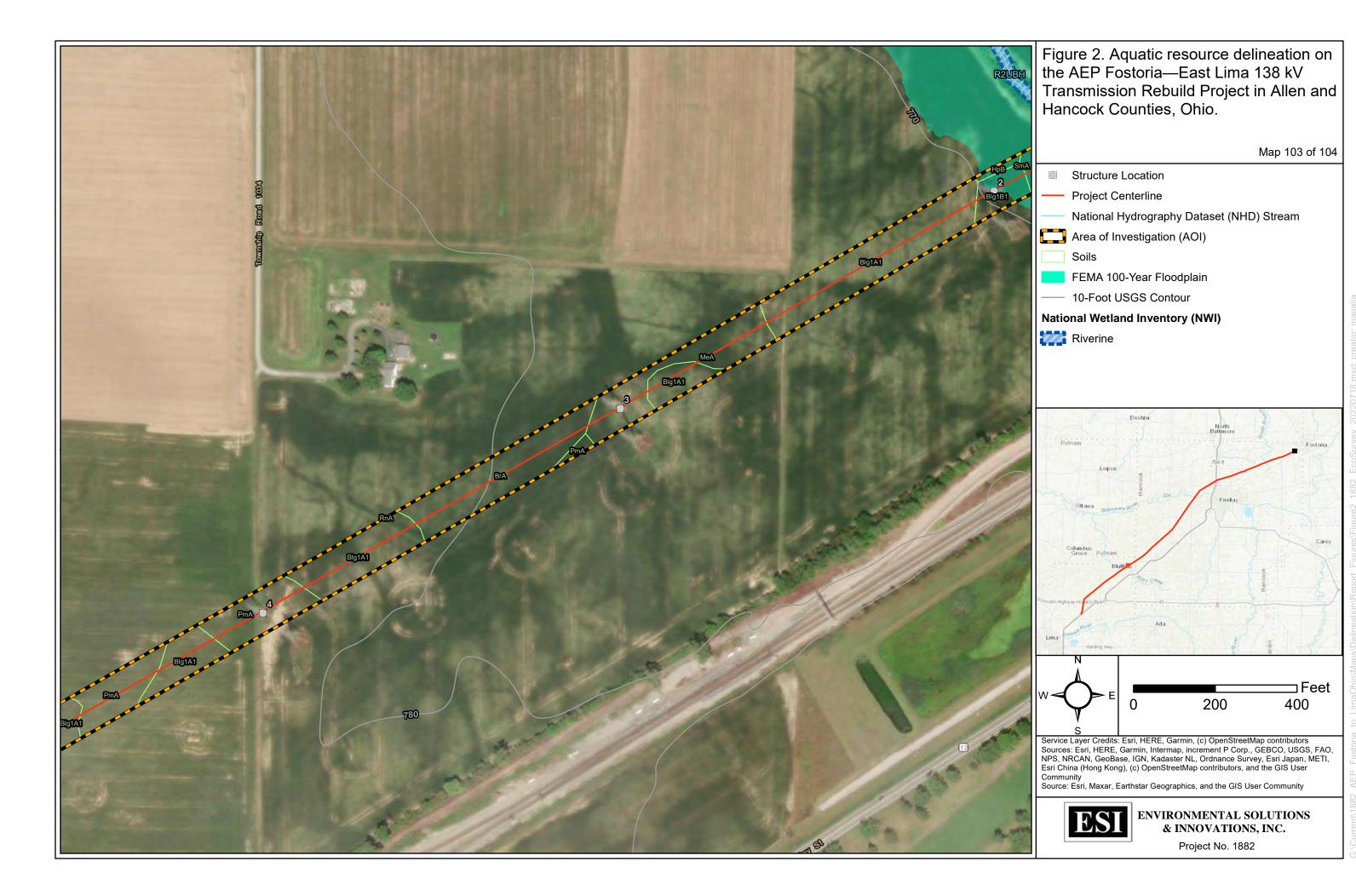


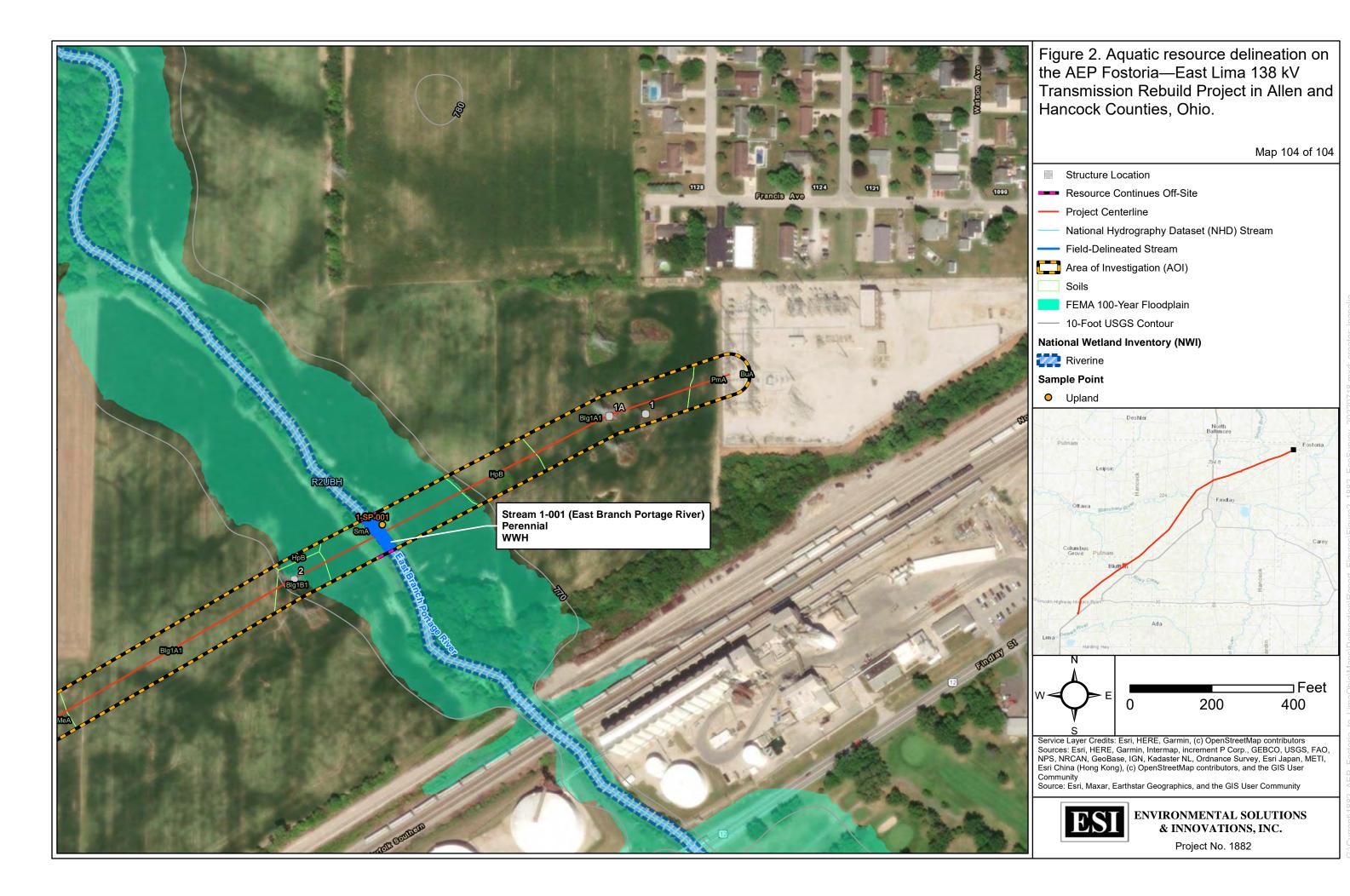












# APPENDIX B AGENCY CORRESPONDENCE/DESKTOP ASSESSMENT



### **Tyler Russell**

**From:** Ohio, FW3 <ohio@fws.gov>

Sent: Wednesday, July 27, 2022 9:30 AM

**To:** Tyler Russell

Cc: nathan.reardon@dnr.state.oh.us; Wyza, Eileen; Scott Denham; Cory Kwolek; Grant S

Stuller

**Subject:** AEP Fostoria – East Lima Rebuild Project in Hancock County, Ohio

**CAUTION:** This email originated from outside of our organization. DO NOT click links or open attachments unless you recognize the sender and know the content is safe!



UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. Fish and Wildlife Service
Ecological Services Office
4625 Morse Road, Suite 104
Columbus, Ohio 43230
(614) 416-8993 / Fax (614) 416-8994



Project Code: 2022-0058530

Dear Mr. Russell,

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

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

Seasonal Tree Clearing for Federally Listed Bat Species: Should the proposed project site contain trees  $\geq 3$  inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees  $\geq 3$  inches dbh cannot be avoided, we

recommend removal of any trees ≥3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule (see <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>), incidental take of Indiana bats is still prohibited without a project-specific exemption. Thus, seasonal clearing is recommended where Indiana bats are assumed present. If implementation of this seasonal tree cutting recommendation is not possible, a summer presence/absence survey may be conducted for Indiana bats. If Indiana bats are not detected during the survey, then tree clearing

may occur at any time of the year. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Ohio Field Office. Surveyors must have a valid federal permit. Please note

that in Ohio summer mist net surveys may only be conducted between June 1 and August 15.

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

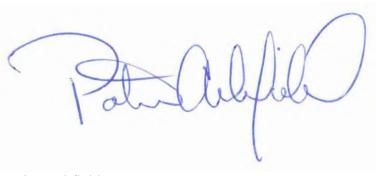
Stream and Wetland Avoidance: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (https://epa.ohio.gov/portals/47/facts/ohio\_wetlands.pdf). We recommend avoiding and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

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, coordination with the Service should be initiated to assess any potential impacts.

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

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

Sincerely,



Patrice Ashfield Field Office Supervisor

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



## Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Fax: (614) 267-4764

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

August 8, 2022

Tyler Russell Environmental Solutions & Innovations, Inc. 4300 Lynn Rd, Suite 205 Ravenna, OH 44266

**Re:** 22-0704; AEP Ohio Transmission Company, Inc. (AEP) - Fostoria – East Lima Line Rebuild Project

**Project:** The proposed project involves rebuilding the existing Fostoria - East Lima transmission line.

**Location:** The proposed project is located in Bath, Monroe, and Richland Townships, Allen County, and Union, Blanchard, Allen, Cass, and Washington Townships, Hancock County, Ohio.

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

**Natural Heritage Database:** The Natural Heritage Database has the following data at or within one mile of the project area:

Rock Elm (*Ulmus thomasii*), P Least Darter (*Etheostoma microperca*), SC Elktoe (*Alasmidonta marginata*), SC Creek Heelsplitter (*Lasmigona compressa*), SC Kidneyshell (*Ptychobranchus fasciolaris*), SC Salamander Mussel (*Simpsonaias ambigua*), T Deertoe (*Truncilla truncata*), SC

Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; U = state status under review; X = presumed extirpated in Ohio; FE = federally endangered, and FT = federally threatened.

The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980.

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

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

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

The entire state of Ohio is within the range of the Indiana bat (Myotis sodalis), a state endangered and federally endangered species, the northern long-eared bat (Myotis septentrionalis), a state endangered and federally threatened species, the little brown bat (Myotis lucifugus), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these species of bats predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. If trees are present within the project area, and trees must be cut, the DOW recommends cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH  $\geq$  20 if possible. If trees are present within the project area, and trees must be cut during the summer months, the DOW recommends a mist net survey or acoustic survey be conducted from June 1 through August 15, prior to any cutting. Mist net and acoustic surveys should be conducted in accordance with the most recent version of the "OHIO DIVISION OF WILDLIFE GUIDANCE FOR BAT SURVEYS AND TREE CLEARING". If state listed bats are documented, DOW recommends cutting only occur from October 1 through March 31. However, limited summer tree cutting may be acceptable after consultation with the DOW (contact Eileen Wyza at Eileen. Wyza@dnr.ohio.gov).

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

The project is within the range of the following listed mussel species. Federally Endangered clubshell (*Pleurobema clava*) rayed bean (*Villosa fabalis*)

<u>State Endangered</u> purple lilliput (*Toxolasma lividum*)

<u>State Threatened</u> pondhorn (*Uniomerus tetralasmus*) Salamander Mussel (*Simpsonaias ambigua*) Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the western banded killifish (*Fundulus diaphanus menona*), a state endangered fish. Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the Kirtland's snake (*Clonophis kirtlandii*), a state threatened species. This secretive species prefers wet meadows and other wetlands. The DOW recommends that an approved herpetologist conducts a habitat suitability survey to determine if suitable habitat is present within the project area. If suitable habitat is determined to be present; the DOW recommends that a presence/absence survey be conducted, or an avoidance/minimization plan be developed and implemented by the approved herpetologist. A list of approved herpetologists has been provided for your convenience.

The project is within the range of the black-crowned night-heron (*Nycticorax nycticorax*), a state-threatened bird. Night-herons are so named because they are nocturnal, conducting most of their foraging in the evening hours or at night, and roost in trees near wetlands and waterbodies during the day. Night herons are migratory and are typically found in Ohio from April 1 through December 1 but can be found in more urbanized areas with reliable food sources year-round. Black-crowned night-herons primarily forage in wetlands and other shallow aquatic habitats, and roost in trees nearby. These night-herons nest in small trees, saplings, shrubs, or sometimes on the ground, near bodies of water and wetlands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the least bittern (*Ixobrychus exilis*), a state threatened bird. This secretive marsh species prefers dense emergent wetlands with thick stands of cattails, sedges, sawgrass or other semiaquatic vegetation interspersed with woody vegetation and open water. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of May 1 through July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the northern harrier (*Circus hudsonis*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

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

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

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

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

Mike Pettegrew Environmental Services Administrator



## 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:

June 29, 2022

Project code: 2022-0058530

Project Name: 1882 AEP Fostoria to East Lima Project

Subject: Consistency letter for the '1882 AEP Fostoria to East Lima Project' project indicating

that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR

§17.40(o).

### Dear Cory Kwolek:

The U.S. Fish and Wildlife Service (Service) received on June 29, 2022 your effects determination for the '1882 AEP Fostoria to East Lima Project' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause "take" of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action's effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

The IPaC-assisted determination for the northern long-eared bat **does not** apply to the following ESA-protected species that also may occur in your Action area:

• Indiana Bat *Myotis sodalis* Endangered

| • Monarch Butterfly <i>Danaus plexippus</i> Candidate  You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above. |  |  |  |  |  |
|---|--|--|--|--|--|
| [1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].                            |  |  |  |  |  |
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### **Action Description**

You provided to IPaC the following name and description for the subject Action.

#### 1. Name

1882 AEP Fostoria to East Lima Project

### 2. Description

The following description was provided for the project '1882 AEP Fostoria to East Lima Project':

Electrical transmission line rebuild

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@41.1088864">https://www.google.com/maps/@41.1088864</a>,-83.56901324526282,14z



### **Determination Key Result**

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

### Determination Key Description: Northern Long-eared Bat 4(d) Rule

This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

# **Determination Key Result**

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

### **Qualification Interview**

Is the action authorized, funded, or being carried out by a Federal agency?

No

2. Will your activity purposefully **Take** northern long-eared bats?

No

3. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?

#### Automatically answered

No

4. [Semantic] Is the project action area located within 0.25 miles of a known northern long-eared bat hibernaculum?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency

### Automatically answered

No

5. [Semantic] Is the project action area located within 150 feet of a known occupied northern long-eared bat maternity roost tree?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency

### Automatically answered

No

### **Project Questionnaire**

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

5

2. If known, estimated acres of forest conversion from April 1 to October 31

0

3. If known, estimated acres of forest conversion from June 1 to July 31

0

# If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

n

# If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31  $\,$ 

0

# If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

### **IPaC User Contact Information**

Agency: Environmental Solutions & Innovations, Inc.

Name: Cory Kwolek

Address: 4300 Lynn Road, Suite 205

City: Ravenna State: OH Zip: 44266

Email ckwolek@envsi.com

Phone: 9376712103



## 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:

June 28, 2022

Project Code: 2022-0058530

Project Name: 1882 AEP Fostoria to East Lima Project

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

location or may be affected by your proposed project

### To Whom It May Concern:

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

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the 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 https://www.fws.gov/birds/policies-and-regulations.php.

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

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

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 | (~) | ١. |
|------------|-----|----|
| Attachment | S   | ١. |

Official Species List

# **Official Species List**

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

This species list is provided by:

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

## **Project Summary**

Project Code: 2022-0058530

Event Code: None

Project Name: 1882 AEP Fostoria to East Lima Project

Project Type: Distribution Line - Maintenance/Modification - Above Ground

Project Description: Electrical transmission line rebuild

**Project Location:** 

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@41.1088864">https://www.google.com/maps/@41.1088864</a>,-83.56901324526282,14z



Counties: Allen and Hancock counties, Ohio

### **Endangered Species Act Species**

There is a total of 3 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.

NOAA Fisheries, 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 Myotis sodalis

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a>

### Northern Long-eared Bat Myotis septentrionalis

Threatened

No critical habitat has been designated for this species.

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

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

Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>

#### Insects

NAME STATUS

### Monarch Butterfly Danaus plexippus

Candidate

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>

### Critical habitats

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

### **IPaC User Contact Information**

Agency: Environmental Solutions & Innovations, Inc.

Name: Cory Kwolek

Address: 4300 Lynn Road, Suite 205

City: Ravenna State: OH Zip: 44266

Email ckwolek@envsi.com

Phone: 9376712103

### APPENDIX C SOIL REPORT





#### MAP LEGEND

### Area of Interest (AOI) Transportation Area of Interest (AOI) Rails Soils Interstate Highways Soil Rating Polygons US Routes Hydric (100%) Major Roads Hydric (66 to 99%) Local Roads $\sim$ Hydric (33 to 65%) Background Hydric (1 to 32%) Aerial Photography Not Hydric (0%) Not rated or not available Soil Rating Lines Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Soil Rating Points** Hydric (100%) Hydric (66 to 99%) Hydric (33 to 65%) Hydric (1 to 32%) Not Hydric (0%) Not rated or not available **Water Features** Streams and Canals

#### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Allen County, Ohio Survey Area Data: Version 21, Aug 31, 2021

Soil Survey Area: Hancock County, Ohio Survey Area Data: Version 22, Sep 8, 2021

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# **Hydric Rating by Map Unit**

| Map unit symbol | Map unit name   | Rating | Acres in AOI | Percent of AOI |
|-----------------|---|--------|--------------|----------------|
| Ble1A1          | Blount silt loam, end<br>moraine, 0 to 2<br>percent slopes                  | 6      | 1.9          | 0.4%           |
| Ble1B1          | Blount silt loam, end<br>moraine, 2 to 4<br>percent slopes                  | 6      | 2.3          | 0.4%           |
| Blg1A1          | Blount silt loam, ground<br>moraine, 0 to 2<br>percent slopes               | 9      | 22.7         | 4.4%           |
| Blg1B1          | Blount silt loam, ground<br>moraine, 2 to 4<br>percent slopes               | 9      | 45.4         | 8.9%           |
| СуА             | Cygnet loam, 0 to 3 percent slopes  | 10     | 0.9          | 0.2%           |
| Gwg1B1          | Glynwood silt loam,<br>ground moraine, 2 to<br>6 percent slopes             | 6      | 19.0         | 3.7%           |
| Gwg5B2          | Glynwood clay loam,<br>ground moraine, 2 to<br>6 percent slopes,<br>eroded  | 6      | 3.8          | 0.7%           |
| Gwg5C2          | Glynwood clay loam,<br>ground moraine, 6 to<br>12 percent slopes,<br>eroded | 7      | 3.0          | 0.6%           |
| HrB             | Houcktown loam, 2 to 6 percent slopes                                       | 5      | 1.7          | 0.3%           |
| HuC2            | Houcktown-Glynwood<br>complex, 6 to 12<br>percent slopes,<br>eroded         | 5      | 0.3          | 0.1%           |
| LcD2            | Lybrand silty clay loam,<br>12 to 20 percent<br>slopes, eroded              | 0      | 0.2          | 0.0%           |
| MbA             | Medway silt loam, 0 to 2 percent slopes, occasionally flooded               | 5      | 2.7          | 0.5%           |
| PmA             | Pewamo silty clay loam,<br>0 to 1 percent slopes                            | 91     | 39.5         | 7.7%           |
| RdA             | Rensselaer loam, 0 to 1 percent slopes                                      | 88     | 3.4          | 0.7%           |
| SfB             | Shawtown loam, 2 to 6 percent slopes  | 0      | 1.7          | 0.3%           |
| ShA             | Shoals silt loam, 0 to 2 percent slopes, occasionally flooded               | 8      | 1.3          | 0.3%           |

| Map unit symbol                | Map unit name  | Rating | Acres in AOI | Percent of AOI |
|--------------------------------|--|--------|--------------|----------------|
| SrA                            | Sloan silty clay loam, till<br>substratum, 0 to 1<br>percent slopes,<br>frequently flooded | 90     | 3.8          | 0.7%           |
| W                              | Water  | 0      | 0.3          | 0.1%           |
| Subtotals for Soil Survey Area |  |        | 153.8        | 30.1%          |
| Totals for Area of Interest    |  | 511.4  | 100.0%       |                |

| Map unit symbol | Map unit name   | Rating | Acres in AOI | Percent of AOI |
|-----------------|---|--------|--------------|----------------|
| ArA             | Aurand loam, 0 to 2 percent slopes                              | 9      | 4.4          | 0.9%           |
| Ble1A1          | Blount silt loam, end<br>moraine, 0 to 2<br>percent slopes      | 6      | 0.9          | 0.2%           |
| Ble1B1          | Blount silt loam, end<br>moraine, 2 to 4<br>percent slopes      | 6      | 0.3          | 0.1%           |
| Blg1A1          | Blount silt loam, ground<br>moraine, 0 to 2<br>percent slopes   | 9      | 46.6         | 9.1%           |
| Blg1B1          | Blount silt loam, ground<br>moraine, 2 to 4<br>percent slopes   | 9      | 27.0         | 5.3%           |
| Blg2A1          | Blount loam, ground<br>moraine, 0 to 2<br>percent slopes        | 6      | 3.8          | 0.8%           |
| ВрА             | Blount-Houcktown<br>complex, 0 to 3<br>percent slopes           | 5      | 26.4         | 5.2%           |
| BrA             | Blount-Jenera complex,<br>0 to 3 percent slopes                 | 5      | 3.2          | 0.6%           |
| BuA             | Blount-Urban land<br>complex, 0 to 2<br>percent slopes          | 9      | 0.0          | 0.0%           |
| DfA             | Del Rey-Blount<br>complex, 0 to 3<br>percent slopes             | 5      | 11.8         | 2.3%           |
| FoB             | Fox loam, 2 to 6 percent slopes                                 | 0      | 0.6          | 0.1%           |
| GaB             | Gallman loam, 2 to 6 percent slopes                             | 0      | 1.6          | 0.3%           |
| GsB             | Glynwood-Blount-<br>Houcktown complex,<br>1 to 4 percent slopes | 7      | 36.5         | 7.1%           |
| Gwe1B1          | Glynwood silt loam, end<br>moraine, 2 to 6<br>percent slopes    | 6      | 8.8          | 1.7%           |

| Map unit symbol | Map unit name  | Rating | Acres in AOI | Percent of AOI |
|-----------------|--|--------|--------------|----------------|
| Gwg1B1          | Glynwood silt loam,<br>ground moraine, 2 to<br>6 percent slopes                              | 6      | 1.7          | 0.3%           |
| Gwg5B2          | Glynwood clay loam,<br>ground moraine, 2 to<br>6 percent slopes,<br>eroded                   | 6      | 1.1          | 0.2%           |
| Gwg5C2          | Glynwood clay loam,<br>ground moraine, 6 to<br>12 percent slopes,<br>eroded                  | 7      | 3.2          | 0.6%           |
| НрА             | Houcktown loam, 0 to 2 percent slopes  | 4      | 1.2          | 0.2%           |
| НрВ             | Houcktown loam, 2 to 6 percent slopes  | 9      | 2.7          | 0.5%           |
| HrB             | Houcktown-Glynwood-<br>Jenera complex, 1 to<br>4 percent slopes                              | 5      | 1.1          | 0.2%           |
| JeA             | Jenera fine sandy loam,<br>0 to 2 percent slopes   | 5      | 0.3          | 0.1%           |
| JeB             | Jenera fine sandy loam,<br>2 to 6 percent slopes   | 4      | 2.5          | 0.5%           |
| LbA             | Lamberjack loam, 0 to 2 percent slopes   | 5      | 0.9          | 0.2%           |
| LyE             | Lybrand silt loam, 18 to 50 percent slopes   | 0      | 2.3          | 0.4%           |
| McA             | Medway silt loam,<br>limestone substratum,<br>0 to 2 percent slopes,<br>occasionally flooded | 10     | 9.3          | 1.8%           |
| MeA             | Mermill loam, 0 to 1 percent slopes  | 90     | 0.9          | 0.2%           |
| MpD3            | Morley clay loam, 12 to<br>18 percent slopes,<br>severely eroded                             | 0      | 4.1          | 0.8%           |
| OrA             | Oshtemo fine sandy<br>loam, 0 to 2 percent<br>slopes   | 0      | 6.1          | 1.2%           |
| OrB             | Oshtemo fine sandy<br>loam, 2 to 6 percent<br>slopes   | 0      | 2.8          | 0.5%           |
| OrC             | Oshtemo fine sandy<br>loam, 6 to 12 percent<br>slopes  | 0      | 0.6          | 0.1%           |
| OsB             | Oshtemo sandy loam, till substratum, 2 to 6 percent slopes                                   | 0      | 2.4          | 0.5%           |
| PmA             | Pewamo silty clay loam,<br>0 to 1 percent slopes   | 91     | 98.5         | 19.3%          |

| Map unit symbol                | Map unit name   | Rating | Acres in AOI | Percent of AOI |
|--------------------------------|---|--------|--------------|----------------|
| RhA                            | Rensselaer loam, till<br>substratum, 0 to 1<br>percent slopes                                     | 90     | 7.8          | 1.5%           |
| RnA                            | Rimer loamy sand, 0 to 2 percent slopes   | 5      | 0.0          | 0.0%           |
| RoA                            | Rimer loamy fine sand,<br>deep phase, 0 to 2<br>percent slopes                                    | 5      | 0.0          | 0.0%           |
| RtA                            | Rossburg silt loam, 0 to<br>2 percent slopes,<br>occasionally flooded                             | 10     | 1.9          | 0.4%           |
| SeB                            | Shawtown loam, 2 to 6 percent slopes  | 0      | 2.0          | 0.4%           |
| SkB                            | Shinrock, till substratum-<br>Glynwood complex, 1<br>to 4 percent slopes                          | 10     | 2.9          | 0.6%           |
| SmA                            | Shoals silt loam, 0 to 2 percent slopes, occasionally flooded                                     | 8      | 0.9          | 0.2%           |
| SnA                            | Sloan loam, 0 to 1<br>percent slopes,<br>occasionally flooded                                     | 90     | 1.5          | 0.3%           |
| SoA                            | Sloan silty clay loam, 0<br>to 1 percent slopes,<br>occasionally flooded                          | 94     | 2.4          | 0.5%           |
| SpA                            | Sloan silty clay loam,<br>limestone substratum,<br>0 to 1 percent slopes,<br>occasionally flooded | 90     | 5.2          | 1.0%           |
| ThA                            | Thackery loam, till substratum, 0 to 2 percent slopes   | 5      | 2.7          | 0.5%           |
| TkA                            | Tiderishi loam, 0 to 2 percent slopes   | 10     | 1.8          | 0.3%           |
| ТрА                            | Tuscola fine sandy<br>loam, 0 to 2 percent<br>slopes  | 5      | 1.0          | 0.2%           |
| ТрВ                            | Tuscola fine sandy<br>loam, 2 to 6 percent<br>slopes  | 5      | 1.1          | 0.2%           |
| VaA                            | Vanlue loam, 0 to 2 percent slopes  | 2      | 1.9          | 0.4%           |
| W                              | Water   | 0      | 0.1          | 0.0%           |
| WeA                            | Westland-Rensselaer<br>complex, 0 to 1<br>percent slopes  | 92     | 10.0         | 2.0%           |
| Subtotals for Soil Survey Area |   |        | 357.1        | 69.8%          |
| Totals for Area of Interest    |   |        | 511.4        | 100.0%         |

### **Description**

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

#### References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

### **Rating Options**

Aggregation Method: Percent Present

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Percent Present" returns the cumulative percent composition of all components of a map unit for which a certain condition is true. For example, attribute "Hydric Rating by Map Unit" returns the cumulative percent composition of all components of a map unit where the corresponding hydric rating is "Yes". Conditions may be simple or complex. At runtime, the user may be able to specify all, some or none of the conditions in question.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

### APPENDIX D NWI TABLE



| NWI Code | NWI Description   | Figure 2 | Related Field Inventoried Resource<br>(Wetland ID / Stream ID) | Comments   |
|----------|---|----------|--|--|
| PEM1A    | Palustrine, emergent, persistent, temporary flooded                     | 2-3      | -  | NWI boundary depicted on map was field verified with 1-SP-023 and does not extend into project survey area.          |
| R4SBC    | Riverine, intermittent, streambed, seasonally flooded                   | 2-3      | -  | NWI boundary depicted on map was field verified and does not extend into project survey area.                        |
| R5UBH    | Riverine, unknown perennial, unconsolidated bottom, permanently flooded | 2-4      | 1-028  | Stream 1-028 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary. |
| R4SBC    | Riverine, intermittent, streambed, seasonally flooded                   | 2-7      | -  | NWI boundary depicted on map was field verified with 1-SP-021 and does not extend into project survey area.          |
| R4SBC    | Riverine, intermittent, streambed, seasonally flooded                   | 2-8      | 1-AL   | Wetland 1-AL extends outside project survey area. NWI boundary depicted on map differs from field verified boundary. |
| PSS1C    | Palustrine, scrub-shrub, broad-leaved deciduous, seasonally flooded     | 2-10     | -  | NWI boundary depicted on map was field verified with 1-SP-019 and does not extend into project survey area.          |
| R4SBC    | Riverine, intermittent, streambed, seasonally flooded                   | 2-12     |  | Stream 1-027 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary. |
| R4SBC    | Riverine, intermittent, streambed, seasonally flooded                   | 2-13     | 1-AK   | Wetland 1-AK extends outside project survey area. NWI boundary depicted on map differs from field verified boundary. |
| R4SBC    | Riverine, intermittent, streambed, seasonally flooded                   | 2-14     | 1-AJ   | Wetland 1-AJ extends outside project survey area. NWI boundary depicted on map differs from field verified boundary. |
| R4SBC    | Riverine, intermittent, streambed, seasonally flooded                   | 2-14     | 1-AK   | Wetland 1-AK extends outside project survey area. NWI boundary depicted on map differs from field verified boundary. |
| R4SBC    | Riverine, intermittent, streambed, seasonally flooded                   | 2-15     | -  | NWI boundary depicted on map was field verified with 1-SP-018 and does not extend into project survey area.          |
| R4SBC    | Riverine, intermittent, streambed, seasonally flooded                   | 2-16     | -  | NWI boundary depicted on map was field verified with 1-SP-017 and does not extend into project survey area.          |

| R4SBC | Riverine, intermittent, streambed, seasonally flooded                   | 2-17       | -                               | NWI boundary depicted on map was field verified with 1-SP-016 and does not extend into project survey area.                                   |
|-------|---|------------|---------------------------------|---|
| R5UBH | Riverine, unknown perennial, unconsolidated bottom, permanently flooded | 2-18, 2-19 | -                               | Stream 1-026 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                          |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                   | 2-21,2-22  | -                               | NWI boundary depicted on map was field verified with 1-SP-015 and does not extend into project survey area.                                   |
| PFO1A | Palustrine, forested, broad-leaved deciduous, temporary flooded         | 2-26       | -                               | NWI boundary depicted on map was field verified with 1-SP-013 and does not extend into project survey area.                                   |
| PUBG  | Palustrine, unconsolidated bottom, intermittenlty exposed               | 2-27,2-28  | 1-AH                            | Wetland complex 1-AH extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                  |
| PUBGx | Palustrine, unconsolidated bottom, intermittenlty exposed, excavated    | 2-27,2-28  | 1-AH PEM /1-AH PFO (2)          | Wetland complex 1-AH extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                  |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-27       | 1-AH PFO (1)/1-AH PFO (2),1-025 | Wetland complex 1-AH and stream 1-025 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary. |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-37       | 1-026                           | Stream 1-026 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                          |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-37,2-38  | 1-024                           | Stream 1-024 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                          |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-38       | 1-023                           | Stream 1-023 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                          |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                   | 2-39       | 1-022                           | Stream 1-023 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                          |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-41       | 1-020 (Ottowa Creek)            | Stream 1-023 extends outside project survey area.   |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-41,2-242 | 1-020, 1-AF, 1-AE               | Stream 1-023, wetland 1-AF and wetland 1-AE extends outside project survey area.  |

| PUBGx | Palustrine, unconsolidated bottom, intermittenlty exposed, excavated    | 2-44      | 1-AD        | Wetland 1-AD extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                    |
|-------|---|-----------|-------------|---|
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-45      | 1-019       | Stream 1-019 extends outside project survey area.   |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-46,2-27 | 1-017,1-018 | Stream 1-017 and 1-018 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.          |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                   | 2-54      | 1-016       | Stream 1-016 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                    |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                   | 2-55,2-26 | 1-014       | Stream 1-014 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                    |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-59      | 1-AB,1-013  | Wetland 1-AB and stream 1-013 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.   |
| PFO1C | Palustrine, forested, broad-leaved deciduous, seasonally flooded        | 2-60      | 1-AC        | Wetland 1-AC extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                    |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-60      | 1-AC,1-015  | Wetland 1-AC and stream 1-015 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.   |
| PUBG  | Palustrine, unconsolidated bottom, intermittenlty exposed               | 2-60,2-61 | 1-P-006     | Pond 1-P-006 extends outside project survey area.   |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded   | 2-62      | 1-AA,1-012  | Wetland 1-AA and stream 1-012 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.   |
| PFO1C | Palustrine, forested, broad-leaved deciduous, seasonally flooded        | 2-64      | 1-X         | Wetland 1-X extends outside project survey area.  |
| R5UBH | Riverine, unknown perennial, unconsolidated bottom, permanently flooded | 2-64      | 1-Y,1-011   | Wetland 1-Y and stream 1-011 extends outside project survey area.<br>NWI boundary depicted on map differs from field verified boundary. |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                   | 2-66,2-67 | 1-010       | Stream 1-010 extends outside project survey area.   |

| PEM1A | Palustrine, emergent, persistent, temporary flooded                   | 2-70,2-71 | -                      | No field verified wetland   |
|-------|---|-----------|------------------------|---|
| PUBGx | Palustrine, unconsolidated bottom, intermittenlty exposed, excavated  | 2-71      | 1-P-004                | Pond 1-P-004 extends outside project survey area.   |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                 | 2-75      | 1-R                    | Wetland 1-R extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                   |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                 | 2-76      | 1-Q                    | Wetland 1-Q extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                   |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                 | 2-78      | 1-009                  | 1-009   |
| PEM1C | Palustrine, emergent, persistent, seasonally flooded                  | 2-79      | 1-K,1-P-001            | None  |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                 | 2-79      | 1-M,1-008              | Wetland 1-M and stream 1-008 extends outside project survey area.  NWI boundary depicted on map differs from field verified boundary. |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                 | 2-82      | 1-007                  | Stream 1-007 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                  |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                 | 2-83      | 1-007                  | Stream 1-007 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                  |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded | 2-86      | 1-D,1-006 (Rocky Ford) | Wetland 1-D and stream 1-006 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.  |
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                 | 2-88      | 1-C,1-005              | Wetland 1-C and stream 1-005 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.  |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded | 2-91      | 1-004                  | Stream 1-004 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.                  |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded | 2-91,2-32 | 1-B,1-003              | Wetland 1-B and stream 1-003 extends outside project survey area. NWI boundary depicted on map differs from field verified boundary.  |

| R4SBC | Riverine, intermittent, streambed, seasonally flooded                 | 2-99  | Upland 1-A | No field verified stream  |  |
|-------|---|-------|------------|---|--|
| R4SBC | Riverine, intermittent, streambed, seasonally flooded                 | 2-99  | 1-A,1-002  | Wetland 1-A and stream 1-002 extends outside project survey area.<br>NWI boundary depicted on map differs from field verified boundary. |  |
| R2UBH | Riverine, lower perennial, unconsolidated bottom, permanently flooded | 2-104 | 1-001      | Stream 1-001 extends outside project survey area.   |  |

### APPENDIX E RTE TABLE



ECOLOGICAL RESOURCES INVENTORY REPORT, AEP FOSTORIA - EAST LIMA 138KV TRANSMISSION REBUILD PROJECT, ALLEN AND HANCOCK COUNTIES, OHIO

Results

July 22, 2022 and August 8, 2022

#### RARE, THREATENED, OR ENDANGERED SPECIES HABITAT

Summary of Potential Ohio State-Listed and Federally Listed Species within the AEP AEP Fostoria - East Lima 138kV Transmission Rebuild Project Area, Allen and Hancock Counties, Ohio

|   |                                 | ia reaeran,                   | y Listed Species within the AEP AEP Fostoria - East Lima 138kV Transmission Rebuild   | I Tojeci Alea, Alle                     | I and Hancock                   | I   |                                |
|---|---------------------------------|-------------------------------|---|---|---------------------------------|---|--------------------------------|
| Common/Scientific Name                              | Federal<br>Listing <sup>1</sup> | State<br>Listing <sup>1</sup> | Habitat Preference  | Habitat<br>Observed in<br>Project Area? | Aviodance<br>Dates              | Agency Comment <sup>2</sup>   | Potential Impacts              |
|   |                                 |                               |   | Birds                                   |                                 |   |                                |
| Northern harrier/Circus<br>cyaneus                  | N/A                             | Е                             | This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands.                                 | No                                      | 15 April through<br>31 July     | If this type of habitat will be impacted, avoid construction during nesting 15<br>April Through 31 July, If habitat is not impacted, the project is not likely to<br>impact the species.  | No                             |
| Black-crowned night-<br>heron/Nycticorax nycticorax | N/A                             | Ţ                             | Night-herons are so named because they are nocturnal, conducting most of their foraging in the evening hours or at night, and roost in trees near wetlands and waterbodies during the day.  | No                                      | 1 May through<br>31 July        | If this type of habitat is impacted, avoid construction during nesting 1 May through 31 July. If habitat is not impacted, the project is not likely to impact the species.  | No                             |
| Least bittern/lxobrychus exilis                     | N/A                             | Т                             | This marsh species prefers dense emergent wetlands with thick stands of cattails, sedges, sawgrass or other semiaquatic vegetation interspersed with woody vegetation and open water.   | No                                      | 1 May through<br>31 July        | If this type of habitat is impacted, avoid construction during nesting 1 May through 31 July. If this type of habitat will not be impacted, this project is not likely to impact this species.  | No                             |
|   |                                 |                               |   | Amphibians                              |                                 |   |                                |
| Kirtland's snake/Clonophis<br>kirtlandii            | N/A                             | Т                             | This species prefers wet meadows and other wetlands.  | No                                      | Year round                      | Based on location, project area habitat type, and work proposed, the project is not likely to impact the species.   | No                             |
|   |                                 |                               |   | Mammals                                 |                                 |   |                                |
| Indiana Bat/Myostis sodalis                         | E                               | E                             | Suitable summer habitat for the Indiana bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed. Habitats potentially include adjacent and interspersed non-forested habitats such as emergent wetlands, agricultural fields, woodlots, fallow fields, and pastures.                | Yes                                     | 1 April through<br>30 September | FWS and ODNR-DOW recommend conserving trees exhibiting loose, shaggy bark and/or crevices, holes, or cavifies. Tree cutting is recommended between 1 October and 31 March. If suitable frees must be cut during summer months, ODNR-DOW recommends completion of a mist net or acoustic survey between 1 June and 15 August, prior to any cutting. If no free removal is proposed, the project is not likely to impact this species. A desktop assessment for features potentially suitable as bat hibernacula was conducted and portal searches were completed within the Project's AOI. No features potentially suitable for hibernating bat use were documented. | Yes;                           |
| Northern Long-eared<br>Bat/Myostis septentrionalis  | T                               | T                             | Suitable summer habitat for the Northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed. These habitats may also include adjacent and interspersed non-forested habitats such as emergent wetlands, agricultural fields, woodlots, fallow fields, and pastures. | Yes                                     | 1 April through<br>30 September | Same as above for Indiana Bat.  | Same as above for Indiana Bat. |

| Little Brown Bat/Myotis<br>lucifugus  | N/A | Е | During spring and summer (1 April through 30 September), the species predominately roosts in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, the species is also dependent on forest structure surrounding roost trees. | Yes             | 1 April through<br>30 September                                | Same as above for Indiana Bat.  | Same as above for Indiana Bat. |
|---|-----|---|--|-----------------|--|---|--------------------------------|
| Tricolored Bat,/Perimyotis subflavus  | N/A | Е | During spring and summer (1 April through 30 September), the species predominately roosts in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, the species is also dependent on forest structure surrounding roost trees. | Yes             | 1 April through<br>30 September Same as above for Indiana Bat. |   | Same as above for Indiana Bat. |
|   |     |   |  | Freshwater Muss | els  |   |                                |
| Clubshell/Pleurobema clava  | Е   | E | Freshwater streams as defined in the Ohio Mussel Survey Protocol (2020)  | Yes             | Year round   | Conduct mussel surveys if in-stream impacts are anticipated in listed streams. Relocate any mussels found prior to in-stream construction.  | Yes                            |
| Rayed bean/Villosa fabalis  | Е   | E | Freshwater streams as defined in the Ohio Mussel Survey Protocol (2020)  | Yes             | Year round   | Same comment as above for Clubshell   | Yes                            |
| Salamander Mussell/<br>Simpsonaias ambigua  | N/A | Т | Freshwater streams as defined in the Ohio Mussel Survey Protocol (2020)  | Yes             | Year round   | Same comment as above for Clubshell   | Yes                            |
| Pond Horn/Uniomerus<br>tetralasmus  | N/A | T | Freshwater streams as defined in the Ohio Mussel Survey Protocol (2020)  | Yes             | Year round   | Same comment as above for Clubshell   | Yes                            |
| Purple lilliput/Toxolasma<br>lividus  | N/A | Е | Freshwater streams as defined in the Ohio Mussel Survey Protocol (2020)  | Yes             | Year round   | Same comment as above for Clubshell   | Yes                            |
|   |     |   |  | Fish            |  |   |                                |
| Western banded<br>killfish/Fundulus diaphanus<br>menona                                   | N/A | Е | Found in perennial streams   | Yes             | 15 March<br>through 30<br>June                                 | ODNR-DOW recommends no in-water work in perennial streams during avoidance dates. If no in-water work is proposed in a perennial stream, the project is not likely to impact this or other aquatic species. | Yes                            |
| <sup>1</sup> E=Endangered; T=Threatened; <sup>2</sup> Information is based on literature. |     |   | SI=Special Interest<br>esponse from ODNR-DOW and USFWS   |                 | ı  |   |                                |

## APPENDIX F WETLAND, STREAM AND POND TABLES



|            | L        | ocation   |           | 11-1-26-4       | Delineated     |       | ORAM     |
|------------|----------|-----------|-----------|-----------------|----------------|-------|----------|
| Wetland ID | Latitude | Longitude | Isolated? | Habitat<br>Type | Area<br>(acre) | Score | Category |
| 1-A        | 41.1376  | -83.4709  | Yes       | PEM             | 0.030          | 21    | 1        |
| 1-B        | 41.1251  | -83.5178  | Yes       | PEM             | 0.054          | 21    | 1        |
| 1-C        | 41.1178  | -83.5403  | Yes       | PEM             | 0.025          | 21    | 1        |
| 1-D        | 41.1128  | -83.5562  | Yes       | PSS             | 0.085          | 32    | 2        |
| 1-E        | 41.1049  | -83.5804  | No        | PEM             | 0.096          | 13    | 1        |
| 1-F        | 41.1047  | -83.5802  | No        | PEM             | 0.015          | 12    | 1        |
| 1-G        | 41.1045  | -83.5805  | No        | PEM             | 0.049          | 12    | 1        |
| 1-H        | 41.1039  | -83.5805  | Yes       | PEM             | 0.003          | 12    | 1        |
| 1-1        | 41.1041  | -83.5819  | Yes       | PEM             | 0.013          | 14    | 1        |
| 1-J        | 41.0993  | -83.6008  | No        | PEM             | 0.243          | 30    | 1        |
| 1-K        | 41.0991  | -83.6014  | No        | PEM             | 0.082          | 46    | 2        |
| 1-L        | 41.0989  | -83.6017  | Yes       | PEM             | 0.038          | 32    | 2        |
| 1-M        | 41.0989  | -83.6022  | No        | PEM             | 0.041          | 29    | 1        |
| 1-N        | 41.0957  | -83.6128  | No        | PEM             | 0.030          | 31    | 2        |
| 1-0        | 41.0955  | -83.6133  | No        | PEM             | 0.037          | 31    | 2        |
| 1-P        | 41.0953  | -83.6138  | No        | PEM             | 0.148          | 30    | 1        |

| 1-Q      | 41.0928 | -83.6234 | Yes | PEM | 0.116 | 17 | 1     |
|----------|---------|----------|-----|-----|-------|----|-------|
| 1-R      | 41.0914 | -83.6295 | Yes | PEM | 0.066 | 17 | 1     |
| 1-S      | 41.0872 | -83.6481 | Yes | PEM | 0.033 | 12 | 1     |
| 1-T      | 41.0868 | -83.6491 | Yes | PEM | 0.299 | 13 | 1     |
| 1-U      | 41.0825 | -83.6623 | Yes | PEM | 0.037 | 26 | 1     |
| 1-V      | 41.0829 | -83.6618 | Yes | PEM | 0.067 | 26 | 1     |
| 1-W      | 41.0667 | -83.6958 | Yes | PEM | 0.051 | 23 | 1     |
| 1-X      | 41.0648 | -83.6996 | Yes | PEM | 0.144 | 28 | 1     |
| 1-Y      | 41.0641 | -83.7013 | Yes | PEM | 0.041 | 32 | 2     |
| 1-Z      | 41.0576 | -83.7096 | Yes | PEM | 0.167 | 22 | 1     |
| 1-AA     | 41.0571 | -83.7100 | Yes | PEM | 0.334 | 30 | 1     |
| 1-AB     | 41.0435 | -83.7233 | Yes | PEM | 0.134 | 38 | Mod 2 |
| 1-AC     | 41.0480 | -83.7189 | Yes | PEM | 0.305 | 34 | 2     |
| 1-AD     | 40.9757 | -83.7857 | Yes | PEM | 0.046 | 30 | 1     |
| 1-AE     | 40.9680 | -83.7967 | No  | PEM | 1.173 | 35 | Mod 2 |
| 1-AF     | 40.9679 | -83.7972 | Yes | PEM | 0.107 | 38 | Mod 2 |
| 1-AG     | 40.9163 | -83.8731 | No  | PEM | 0.031 | 24 | 1     |
| 1-AH PEM | 40.9057 | -83.8935 | Yes | PEM | 1.323 | 38 | Mod 2 |

| 1-AH PFO (1) | 40.9053 | -83.8942 | No  | PFO   | 0.025 | 38 | Mod 2 |
|--------------|---------|----------|-----|-------|-------|----|-------|
| 1-AH PFO (2) | 40.9060 | -83.8940 | No  | PFO   | 1.051 | 38 | Mod 2 |
| 1-AI         | 40.9022 | -83.9006 | No  | PEM   | 0.046 | 18 | 1     |
| 1-AJ         | 40.8596 | -83.9759 | Yes | PEM   | 0.035 | 17 | 1     |
| 1-AK         | 40.8587 | -83.9774 | Yes | PEM   | 0.050 | 17 | 1     |
| 1-AL         | 40.8341 | -84.0155 | Yes | PEM   | 0.076 | 18 | 1     |
| 1-AM         | 40.8004 | -84.0281 | Yes | PEM   | 0.146 | 28 | 1     |
| 1-AN         | 40.8018 | -84.0263 | Yes | PEM   | 0.071 | 32 | 2     |
|              |         |          |     | 6.966 |       |    |       |

### AEP Fostoria - East Lima 138kV Transmission Rebuild Project STREAM TABLE

|           | Loc      | ation     |                |                               | Delineated       | Bankfull        | онум            |                | Field I | Evaluation                             |
|-----------|----------|-----------|----------------|-------------------------------|------------------|-----------------|-----------------|----------------|---------|--|
| Stream ID | Latitude | Longitude | Stream<br>Type | Stream Name                   | Length<br>(feet) | Width<br>(feet) | Width<br>(feet) | Method         | Score   | Category / Rating /<br>OAC Designation |
| 1-001     | 41.15014 | -83.43847 | Perennial      | East Branch Portage<br>River  | 101              | 22              | 18              | Chapter 3745-1 | N/A     | WWH                                    |
| 1-002     | 41.1376  | -83.4709  | Intermittent   | N/A                           | 102              | 5               | 3.5             | HHEI           | 36      | Modified Class II PHW                  |
| 1-003     | 41.1251  | -83.51775 | Intermittent   | N/A                           | 264              | 5               | 3.5             | HHEI           | 48      | Modified Class II PHW                  |
| 1-004     | 41.1234  | -83.5230  | Perennial      | South Branch<br>Portage River | 101              | 7               | 5               | Chapter 3745-1 | N/A     | WWH                                    |
| 1-005     | 41.1178  | -83.54029 | Intermittent   | N/A                           | 101              | 4               | 3               | HHEI           | 31      | Modified Class II PHW                  |
| 1-006     | 41.11274 | -83.5562  | Perennial      | Rocky Ford                    | 179              | 7               | 4.5             | Chapter 3745-1 | N/A     | WWH                                    |
| 1-007     | 41.10721 | -83.57478 | Perennial      | N/A                           | 608              | 9               | 7               | HHEI           | 55      | Modified Class II PHW                  |
| 1-008     | 41.0989  | -83.60204 | Perennial      | N/A                           | 104              | 8               | 5.5             | QHEI           | 44      |  |
| 1-009     | 41.0966  | -83.6096  | Perennial      | N/A                           | 346              | 9               | 7               | QHEI           | 49.5    |  |
| 1-010     | 41.0726  | -83.68336 | Intermittent   | N/A                           | 320              | 5               | 3.5             | HHEI           | 47      | Modified Class II PHW                  |
| 1-011     | 41.0641  | -83.70132 | Intermittent   | N/A                           | 119              | 6               | 4               | HHEI           | 41      | Modified Class II PHW                  |
| 1-012     | 41.0572  | -83.70988 | Perennial      | N/A                           | 158              | 10              | 8               | QHEI           | 40.5    |  |
| 1-013     | 41.0434  | -83.7233  | Perennial      | Aurand Run                    | 158              | 12              | 8               | Chapter 3745-1 | N/A     | WWH                                    |
| 1-014     | 41.0267  | -83.73853 | Perennial      | N/A                           | 137              | 7               | 5               | QHEI           | 33      |  |
| 1-015     | 41.0478  | -83.71912 | Perennial      | Blanchard River               | 103              | 65              | 50              | Chapter 3745-1 | N/A     | WWH                                    |

### AEP Fostoria - East Lima 138kV Transmission Rebuild Project STREAM TABLE

| 1-016   | 41.0195  | -83.74489 | Intermittent | N/A              | 160  | 5   | 3   | HHEI           | 42  | Modified Class II PHW |
|---------|----------|-----------|--------------|------------------|------|-----|-----|----------------|-----|-----------------------|
| 1-017   | 40.9858  | -83.77431 | Perennial    | Tiderishi Creek  | 137  | 10  | 8   | Chapter 3745-1 | N/A | WWH                   |
| 1-018   | 40.9839  | -83.77591 | Perennial    | Tiderishi Creek  | 492  | 10  | 8   | Chapter 3745-1 | N/A | WWH                   |
| 1-019   | 40.9792  | -83.78043 | Perennial    | Burket Ditch     | 134  | 6.5 | 4   | Chapter 3745-1 | N/A | LRW                   |
| 1-020   | 40.9669  | -83.79863 | Perennial    | Ottawa Creek     | 1271 | 40  | 30  | Chapter 3745-1 | N/A | WWH                   |
| 1-021   | 40.9653  | -83.80064 | Ephemeral    | N/A              | 34   | 2.5 | 1.5 | HHEI           | 26  | Modified Class II PHW |
| 1-022   | 40.9541  | -83.81696 | Intermittent | N/A              | 111  | 4   | 3   | HHEI           | 37  | Modified Class II PHW |
| 1-023   | 40.9499  | -83.82311 | Perennial    | Ottawa Creek     | 162  | 40  | 30  | Chapter 3745-1 | N/A | WWH                   |
| 1-024   | 40.94594 | -83.82879 | Perennial    | W.B. Moyer Ditch | 1403 | 7   | 5   | Chapter 3745-1 | N/A | MWH                   |
| 1-025   | 40.90615 | -83.89481 | Perennial    | Riley Creek      | 226  | 60  | 40  | Chapter 3745-1 | N/A | WWH                   |
| 1-026   | 40.87827 | -83.94457 | Perennial    | Cranberry Creek  | 218  | 7   | 5   | Chapter 3745-1 | N/A | MWH                   |
| 1-027   | 40.85053 | -83.99004 | Perennial    | N/A              | 133  | 6   | 4.5 | HHEI           | 45  | Modified Class II PHW |
| 1-028   | 40.81726 | -84.02284 | Perennial    | Sugar Creek      | 295  | 22  | 16  | Chapter 3745-1 | N/A | MWH                   |
| 1-029   | 40.80996 | -84.02454 | Perennial    | N/A              | 103  | 6.5 | 4   | QHEI           | 47  |                       |
| 1-D-001 | 41.11173 | -83.55962 |              | N/A              | 280  | 3.5 | 2   | N/A            | N/A | N/A                   |
|         | Total:   |           |              |                  |      |     |     |                |     |                       |

| Pond ID | Location |           | Delineated     |
|---------|----------|-----------|----------------|
|         | Latitude | Longitude | Area<br>(acre) |
| 1-P-001 | 41.09908 | -83.60144 | 0.07           |
| 1-P-002 | 41.08882 | -83.64121 | 0.00           |
| 1-P-003 | 41.08824 | -83.64272 | 0.13           |
| 1-P-004 | 41.08531 | -83.65527 | 0.15           |
| 1-P-005 | 41.02011 | -83.74435 | 0.13           |
| 1-P-006 | 41.04961 | -83.71733 | 0.15           |
|         |          | Total:    | 0.622          |

### APPENDIX G SITE PHOTOS



### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-A (North)



Wetland 1-A (East)



Wetland 1-A (South)



Wetland 1-A (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-A (Soil)



Wetland 1-B (North)



Wetland 1-B (East)



Wetland 1-B (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-B (West)



Wetland 1-B (Soil)



Wetland 1-C (North)



Wetland 1-C (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-C (South)



Wetland 1-C (West)



Wetland 1-C (Soil)



Wetland 1-D (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-D (East)



Wetland 1-D (South)



Wetland 1-D (West)



Wetland 1-D (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:**Allen and Hancock
Counties, OH



Wetland 1-E (North)



Wetland 1-E (East)



Wetland 1-E (South)



Wetland 1-E (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-E (Soil)



Wetland 1-F (North)



Wetland 1-F (East)



Wetland 1-F (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-F (West)



Wetland 1-F (Soil)



Wetland 1-G (North)



Wetland 1-G (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-G (South)



Wetland 1-G (West)



Wetland 1-G (Soil)



Wetland 1-H (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-H (East)



Wetland 1-H (South)



Wetland 1-H (West)



Wetland 1-H (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-I (North)



Wetland 1-I (East)



Wetland 1-I (South)



Wetland 1-I (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-I (Soil)



Wetland 1-J (North)



Wetland 1-J (East)



Wetland 1-J (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-J (West)



Wetland 1-J (Soil)



Wetland 1-K (North)



Wetland 1-K (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-K (South)



Wetland 1-K (West)



Wetland 1-K (Soil)



Wetland 1-L (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-L (East)



Wetland 1- L (South)



Wetland 1-L (West)



Wetland 1-L (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-M (North)



Wetland 1-M (East)



Wetland 1-M (South)



Wetland 1-M (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-M (Soil)



Wetland 1-N (North)



Wetland 1-N (East)



Wetland 1-N (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-N (West)



Wetland 1-N (Soil)



Wetland 1-O (North)



Wetland 1-O (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-O (South)



Wetland 1-O (West)



Wetland 1-O (Soil)



Wetland 1-P (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-P (East)



Wetland 1-P (South)



Wetland 1-P (West)



Wetland 1-P (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-Q (North)



Wetland 1-Q (East)



Wetland 1-Q (South)



Wetland 1-Q (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-Q (Soil)



Wetland 1-R (North)



Wetland 1-R (East)



Wetland 1-R (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-R (West)



Wetland 1-R (Soil)



Wetland 1-S (North)



Wetland 1-S (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-S (South)



Wetland 1-S (West)



Wetland 1-S (Soil)



Wetland 1-T (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-T (East)



Wetland 1-T (South)



Wetland 1-T (West)



Wetland 1-T (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-U (North)



Wetland 1-U (East)



Wetland 1-U (South)



Wetland 1-U (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-U (Soil)



Wetland 1-V (North)



Wetland 1-V (East)



Wetland 1-V (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-V (West)



Wetland 1-V (Soil)



Wetland 1-W (North)



Wetland 1-W (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-W (South)



Wetland 1-W (West)



Wetland 1-W (Soil)



Wetland 1-X (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-X (East)



Wetland 1-X (South)



Wetland 1-X (West)



Wetland 1-X (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-Y (North)



Wetland 1-Y (East)



Wetland 1-Y (South)



Wetland 1-Y (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-Y (Soil)



Wetland 1-Z (North)



Wetland 1-Z (East)



Wetland 1-Z (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-Z (West)



Wetland 1-Z (Soil)



Wetland 1-AA (North)



Wetland 1-AA (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AA (South)



Wetland 1-AA (West)



Wetland 1-AA (Soil)



Wetland 1-AB (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AB (East)



Wetland 1-AB (South)



Wetland 1-AB (West)



Wetland 1-AB (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AC (North)



Wetland 1-AC (East)



Wetland 1-AC (South)



Wetland 1-AC (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AC (Soil)



Wetland 1-AD (North)



Wetland 1-AD (East)



Wetland 1-AD (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AD (West)



Wetland 1-AD (Soil)



Wetland 1-AE (North)



Wetland 1-AE (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AE (South)



Wetland 1-AE (West)



Wetland 1-AE (Soil)



Wetland 1-AF (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AF (East)



Wetland 1-AF (South)



Wetland 1-AF (West)



Wetland 1-AF (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AG (North)



Wetland 1-AG (East)



Wetland 1-AG (South)



Wetland 1-AG (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AG (Soil)



Wetland 1-AH PFO (North)



Wetland 1-AH PFO (East)



Wetland 1-AH PFO (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AH PFO (West)



Wetland 1-AH PFO (Soil)



Wetland 1-AH PEM (North)



Wetland 1-AH PEM (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AH PEM (South)



Wetland 1-AH PEM (West)



Wetland 1-AH PEM (Soil)



Wetland 1-AI (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AI (East)



Wetland 1-AI (South)



Wetland 1-AI (West)



Wetland 1-AI (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AJ (North)



Wetland 1-AJ (East)



Wetland 1-AJ (South)



Wetland 1-AJ (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AJ (Soil)



Wetland 1-AK (North)



Wetland 1-AK (East)



Wetland 1-AK (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock

Allen and Hancock Counties, OH

Project #:

1882



Wetland 1-AK (West)



Wetland 1-AK (Soil)



Wetland 1-AL (North)



Wetland 1-AL (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AL (South)



Wetland 1-AL (West)



Wetland 1-AL (Soil)



Wetland 1-AM (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AM (East)



Wetland 1-AM (South)



Wetland 1-AM (West)



Wetland 1-AM (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AN (North)



Wetland 1-AN (East)



Wetland 1-AN (South)



Wetland 1-AN (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Wetland 1-AN (Soil)



Upland 1-A (North)



Upland 1-A (East)



Upland 1-A (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-A (West)



Upland 1-A (Soil)



Upland 1-B (North)



Upland 1-B (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-B (South)



Upland 1-B (West)



Upland 1-B (Soil)



Upland 1-C (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-C (East)



Upland 1-C (South)



Upland 1-C (West)



Upland 1-C (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-D (North)



Upland 1-D (East)



Upland 1-D (South)



Upland 1-D (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-D (Soil)



Upland 1-E/F (North)



Upland 1-E/F (East)



Upland 1-E/F (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-E/F (West)



Upland 1-E/F (Soil)



Upland 1-G/H (North)



Upland 1-G/H (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-G/H (South)



Upland 1-G/H (West)



Upland 1-G/H (Soil)



Upland 1-I (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:**Allen and Hancock
Counties, OH



Upland 1-I (East)



Upland 1-I (South)



Upland 1-I (West)



Upland 1-I (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-J/K/L (North)



Upland 1-J/K/L (East)



Upland 1-J/K/L (South)



Upland 1-J/K/L (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-J/K/L (Soil)



Upland 1-M (North)



Upland 1-M (East)



Upland 1-M (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-M (West)



Upland 1-M (Soil)



Upland 1-N/O/P (North)



Upland 1-N/O/P (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-N/O/P (South)



Upland 1-N/O/P (West)



Upland 1-N/O/P (Soil)



Upland 1-Q (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-Q (East)



Upland 1-Q (South)



Upland 1-Q (West)



Upland 1-Q (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:**Allen and Hancock
Counties, OH



Upland 1-R (North)



Upland 1-R (East)



Upland 1-R (South)



Upland 1-R (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-R (Soil)



Upland 1-S/T (North)



Upland 1-S/T (East)



Upland 1-S/T (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-S/T (West)



Upland 1-S/T (Soil)



Upland 1-U/V (North)



Upland 1-U/V (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-U/V (South)



Upland 1-U/V (West)



Upland 1-U/V (Soil)



Upland 1-W (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-W (East)



Upland 1-W (South)



Upland 1-W (West)



Upland 1-W (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-X (North)



Upland 1-X (East)



Upland 1-X (South)



Upland 1-X (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-X (Soil)



Upland 1-Y (North)



Upland 1-Y (East)



Upland 1-Y (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-Y (West)



Upland 1-Y (Soil)



Upland 1-Z (North)



Upland 1-Z (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-Z (South)



Upland 1-Z (West)



Upland 1-Z (Soil)



Upland 1-AA (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AA (East)



Upland 1-AA (South)



Upland 1-AA (West)



Upland 1-AA (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AB (North)



Upland 1-AB (East)



Upland 1-AB (South)



Upland 1-AB (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-AB (Soil)



Upland 1-AC (North)



Upland 1-AC (East)



Upland 1-AC (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-AC (West)



Upland 1-AC (Soil)



Upland 1-AD (North)



Upland 1-AD (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AD (South)



Upland 1-AD (West)



Upland 1-AD (Soil)



Upland 1-AE (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-AE (East)



Upland 1-AE (South)



Upland 1-AE (West)



Upland 1-AE (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AF (North)



Upland 1-AF (East)



Upland 1-AF (South)



Upland 1-AF (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AF (Soil)



Upland 1-AG (North)



Upland 1-AG (East)



Upland 1-AG (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AG (West)



Upland 1-AG (Soil)



Upland 1-AH (North)



Upland 1-AH (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AH (South)



Upland 1-AH (West)



Upland 1-AH (Soil)



Upland 1-AI (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AI (East)



Upland 1-AI (South)



Upland 1-AI (West)



Upland 1-AI (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AJ (North)



Upland 1-AJ (East)



Upland 1-AJ (South)



Upland 1-AJ (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AJ (Soil)



Upland 1-AK (North)



Upland 1-AK (East)



Upland 1-AK (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AK (West)



Upland 1-AK (Soil)



Upland 1-AL (North)



Upland 1-AL (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AL (South)



Upland 1-AL (West)



Upland 1-AL (Soil)



Upland 1-AM (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-AM (East)



1-AM (South)



1-AM (West)



Upland 1-AM (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-AN (North)



Upland 1-AN (East)



Upland 1-AN (South)



Upland 1-AN (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-AN (Soil)



Upland 1-SP-001 (North)



Upland 1-SP-001 (East)



Upland 1-SP-001 (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-001 (West)



Upland 1-SP-001 (Soil)



Upland 1-SP-002 (North)



Upland 1-SP-002 (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-002 (South)



Upland 1-SP-002 (West)



Upland 1-SP-002 (Soil)



Upland 1-SP-003 (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-003 (East)



1-SP-003 (South)



1-SP-003 (West)



Upland 1-SP-003 (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-004 (North)



Upland 1-SP-004 (East)



Upland 1-SP-004 (South)



Upland 1-SP-004 (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project **Site Location:**Allen and Hancock
Counties, OH



Upland 1-SP-004 (Soil)



Upland 1-SP-005 (North)



Upland 1-SP-005 (East)



Upland 1-SP-005 (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-005 (West)



Upland 1-SP-005 (Soil)



Upland 1-SP-006 (North)



Upland 1-SP-006 (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-006 (South)



Upland 1-SP-006 (West)



Upland 1-SP-006 (Soil)



Upland 1-SP-007 (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-007 (East)



1-SP-007 (South)



1-SP-007 (West)



Upland 1-SP-007 (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-008 (North)



Upland 1-SP-008 (East)



Upland 1-SP-008 (South)



Upland 1-SP-008 (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-008 (Soil)



Upland 1-SP-009 (North)



Upland 1-SP-009 (East)



Upland 1-SP-009 (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

### **Site Location:** Allen and Hancock

Counties, OH

Project #:

1882



Upland 1-SP-009 (West)



Upland 1-SP-009 (Soil)



Upland 1-SP-010 (North)



Upland 1-SP-010 (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-010 (South)



Upland 1-SP-010 (West)



Upland 1-SP-010 (Soil)



Upland 1-SP-011 (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-011 (East)



1-SP-011 (South)



1-SP-011 (West)



Upland 1-SP-011 (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-012 (North)



Upland 1-SP-012 (East)



Upland 1-SP-012 (South)



Upland 1-SP-012 (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-012 (Soil)



Upland 1-SP-013 (North)



Upland 1-SP-013 (East)



Upland 1-SP-013 (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-013 (West)



Upland 1-SP-013 (Soil)



Upland 1-SP-014 (North)



Upland 1-SP-014 (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-014 (South)



Upland 1-SP-014 (West)



Upland 1-SP-014 (Soil)



Upland 1-SP-015 (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-015 (East)



1-SP-015 (South)



1-SP-015 (West)



Upland 1-SP-015 (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-016 (North)



Upland 1-SP-016 (East)



Upland 1-SP-016 (South)



Upland 1-SP-016 (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-016 (Soil)



Upland 1-SP-017 (North)



Upland 1-SP-017 (East)



Upland 1-SP-017 (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-017 (West)



Upland 1-SP-017 (Soil)



Upland 1-SP-018 (North)



Upland 1-SP-018 (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## Site Location: Allen and Hancock Counties, OH



Upland 1-SP-018 (South)



Upland 1-SP-018 (West)



Upland 1-SP-018 (Soil)



Upland 1-SP-019 (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-019 (East)



1-SP-019 (South)



1-SP-019 (West)



Upland 1-SP-019 (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-020 (North)



Upland 1-SP-020 (East)



Upland 1-SP-020 (South)



Upland 1-SP-020 (West)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-020 (Soil)



Upland 1-SP-021 (North)



Upland 1-SP-021 (East)



Upland 1-SP-021 (South)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-021 (West)



Upland 1-SP-021 (Soil)



Upland 1-SP-022 (North)



Upland 1-SP-022 (East)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Upland 1-SP-022 (South)



Upland 1-SP-022 (West)



Upland 1-SP-022 (Soil)



Upland 1-SP-023 (North)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## Site Location: Allen and Hancock Counties, OH



Upland 1-SP-023 (East)



1-SP-023 (South)



1-SP-023 (West)



Upland 1-SP-023 (Soil)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-001 (Upstream)



Stream 1-001 (Downstream)



Stream 1-001 (Substrate)



Stream 1-002 (Upstream)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Stream 1-002 (Downstream)



Stream 1-002 (Substrate)



Stream 1-003 (Upstream)



Stream 1-003 (Downstream)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-003 (Substrate)



Stream 1-004 (Upstream)



Stream 1-004 (Downstream)



Stream 1-004 (Substrate)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-005 (Upstream)



Stream 1-005 (Downstream)



Stream 1-005 (Substrate)



Stream 1-006 (Upstream)

### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-006 (Downstream)



Stream 1-006 (Substrate)



Stream 1-007 (Upstream)



Stream 1-007 (Downstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-007 (Substrate)



Stream 1-008 (Upstream)



Stream 1-008 (Downstream)



Stream 1-008 (Substrate)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-009 (Upstream)



Stream 1-009 (Downstream)



Stream 1-009 (Substrate)



Stream 1-010 (Upstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Stream 1-010 (Downstream)



Stream 1-010 (Substrate)



Stream 1-011 (Upstream)



Stream 1-011 (Downstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

### Site Location: Allen and Hancock Counties, OH



Stream 1-011 (Substrate)



Stream 1-012 (Upstream)



Stream 1-012 (Downstream)



Stream 1-012 (Substrate)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH



Stream 1-013 (Upstream)



Stream 1-013 (Downstream)



Stream 1-013 (Substrate)



Stream 1-014 (Upstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH

Project #:

1882



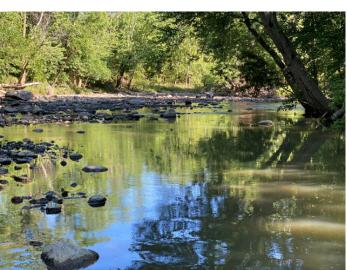
Stream 1-014 (Downstream)



Stream 1-014 (Substrate)



Stream 1-015 (Upstream)



Stream 1-015 (Downstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-015 (Substrate)



Stream 1-016 (Upstream)



Stream 1-016 (Downstream)



Stream 1-016 (Substrate)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-017 (Upstream)



Stream 1-017 (Downstream)



Stream 1-017 (Substrate)



Stream 1-018 (Upstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-018 (Downstream)



Stream 1-018 (Substrate)



Stream 1-019 (Upstream)



Stream 1-019 (Downstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-019 (Substrate)



Stream 1-020 (Upstream)



Stream 1-020 (Downstream)



Stream 1-020 (Substrate)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-021 (Upstream)



Stream 1-021 (Downstream)



Stream 1-021 (Substrate)



Stream 1-022 (Upstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-022 (Downstream)



Stream 1-022 (Substrate)



Stream 1-023 (Upstream)



Stream 1-023 (Downstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-023 (Substrate)



Stream 1-024 (Upstream)



Stream 1-024 (Downstream)



Stream 1-024 (Substrate)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-025 (Upstream)



Stream 1-025 (Downstream)



Stream 1-025 (Substrate)



Stream 1-026 (Upstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-026 (Downstream)



Stream 1-026 (Substrate)



Stream 1-027 (Upstream)



Stream 1-027 (Downstream)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-027 (Substrate)



Stream 1-028 (Upstream)



Stream 1-028 (Downstream)



Stream 1-028 (Substrate)

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH



Stream 1-029 (Upstream)



Stream 1-029 (Downstream)



Stream 1-029 (Substrate)



Ditch 1-D-001

#### Client/Site Name:

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH





Ditch 1-D-001 Pond 1-P-001





Pond 1-P-001 Pond 1-P-002

### **Client/Site Name:**

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

## **Site Location:**Allen and Hancock Counties, OH





Pond 1-P-002 Pond 1-P-003





Pond 1-P-003 Pond 1-P-004

### **Client/Site Name:**

AEP Fostoria - East Lima 138kV Transmission Rebuild Project

# **Site Location:**Allen and Hancock Counties, OH

**Project #:** 1882





Pond 1-P-004 Pond 1-P-005

### APPENDIX H WETLAND AND STREAM DATASHEETS



#### WETLAND DETERMINATION DATA FORM - Midwest Region

| Project/Site: AEP Fostoria to Lima                       |                  | C                 | ity/Cou  | <sub>ınty:</sub> Fostoria | a/Hancock  | Sampling Date: 2               | <u>2022-06-29</u> |
|--|------------------|-------------------|----------|---------------------------|--|--------------------------------|-------------------|
| Applicant/Owner: AEP                                     |                  |                   |          |                           | State: Ohio                                      | Sampling Point: 1              | I-A               |
| Investigator(s): Beth Hollinden, Chris                   | Davisson         | s                 | Section, | Township, Rai             | nge: OH01 T2N R12E                               | SN10                           |                   |
| Landform (hillslope, terrace, etc.): Depre               | ssion Toeslo     | ре                |          | Local relief              | (concave, convex, none):                         | Concave                        |                   |
| Slope (%): 2 Lat: 41.13756                               | 9                | L                 | .ong: _  | 83.470898                 |  | Datum: WGS 84                  | 4                 |
| Soil Map Unit Name: PmA                                  |                  |                   |          |                           | NWI classific                                    | ation: R4SBC                   |                   |
| Are climatic / hydrologic conditions on the              | site typical for | this time of year | r? Yes   | No_                       | (If no, explain in R                             | emarks.)                       |                   |
| Are Vegetation, Soil, or Hy                              | drology          | _ significantly d | listurbe | d? Are "                  | 'Normal Circumstances" p                         | resent? Yes                    | No                |
| Are Vegetation, Soil, or Hy                              | drology          | _ naturally prob  | olematic | c? (If ne                 | eded, explain any answe                          | rs in Remarks.)                |                   |
| SUMMARY OF FINDINGS - Atta                               | ach site ma      | p showing s       | samp     | ling point le             | ocations, transects                              | , important fea                | atures, etc.      |
| Hydrophytic Vegetation Present?                          | Yes              |                   |          |                           |  |                                |                   |
| Hydric Soil Present?                                     | Yes              |                   |          | s the Sampled             |  |                                |                   |
| Wetland Hydrology Present?                               | Yes              | No                | _ v      | vithin a Wetlar           | nd? Yes  | No                             |                   |
| Remarks:   |                  |                   |          |                           |  |                                |                   |
| PEM. ORAM Score of 21.                                   |                  |                   |          |                           |  |                                |                   |
| VEGETATION – Use scientific na                           | mes of plan      | ts.               |          |                           |  |                                |                   |
| 7 0 1 (D) 1 30 ft r                                      | ,                |                   |          | ant Indicator             | Dominance Test work                              | sheet:                         |                   |
| Tree Stratum (Plot size:30 ft r1                         | )                |                   |          | es? Status                | Number of Dominant Sp<br>That Are OBL, FACW, o   |                                | (A)               |
| 2  |                  |                   |          |                           | Total Number of Domin                            |                                |                   |
| 3  |                  |                   |          |                           | Species Across All Stra                          | ta: <u>1</u>                   | (B)               |
| 4<br>5   |                  |                   |          |                           | Percent of Dominant Sp<br>That Are OBL, FACW, of |                                | (A/B)             |
|  |                  |                   | = Total  | Cover                     |  |                                | (/////            |
| Sapling/Shrub Stratum (Plot size: 15 ft                  |                  |                   |          |                           | Prevalence Index work  Total % Cover of:         |                                | , by:             |
| 1  |                  |                   |          |                           |  | x 1 = 0                        | <u>/ by:</u>      |
| 2  |                  |                   |          |                           |  | x 2 = 200                      |                   |
| 4.   |                  |                   |          |                           |  | x 3 = 0                        |                   |
| 5  |                  |                   |          |                           |  | x 4 = 0                        |                   |
|  |                  |                   | = Total  | Cover                     | UPL species 0                                    |                                |                   |
| Herb Stratum (Plot size: 5 ft r  1. Phalaris arundinacea | )                | 90                | ~        | FACW                      | Column Totals: 100                               | (A) <u>200</u>                 | (B)               |
| Urtica dioica  |                  | $-\frac{90}{10}$  |          | - FACW                    | Prevalence Index                                 | = B/A = 2.00                   |                   |
| 3.   |                  |                   |          |                           | Hydrophytic Vegetation                           |                                |                   |
| 4  |                  |                   |          |                           | ✓ 1 - Rapid Test for H                           | lydrophytic Vegeta             | ition             |
| 5.   |                  |                   |          |                           | ✓ 2 - Dominance Tes                              | t is >50%                      |                   |
| 6  |                  |                   |          |                           | ✓ 3 - Prevalence Inde                            | ex is ≤3.0 <sup>1</sup>        |                   |
| 7  |                  |                   |          |                           | 4 - Morphological A                              | daptations <sup>1</sup> (Provi | de supporting     |
| 8  |                  |                   |          |                           | Problematic Hydron                               | s or on a separate :           |                   |
| 9  |                  |                   |          |                           | Froblematic riguro                               | Trytic vegetation              | (LXPIAIII)        |
| 10   |                  |                   |          |                           | <sup>1</sup> Indicators of hydric soil           | l and wetland hydr             | ology must        |
| Woody Vine Stratum (Plot size: 30 ft i                   | <u>r</u> )       | 100%=             | = Total  | Cover                     | be present, unless distu                         |                                |                   |
| 1  |                  |                   |          |                           | Hydrophytic                                      |                                |                   |
| 2  |                  |                   |          |                           | Vegetation<br>  Present? Yes                     | s No                           |                   |
| Remarks: (Include photo numbers here                     | or on a senarat  | =                 | - rotal  | Cover                     |  |                                |                   |
| , ,  |                  |                   |          |                           |  |                                |                   |
| Hydrophytic vegetation p                                 | present.         |                   |          |                           |  |                                |                   |

SOIL Sampling Point: 1-A

| Profile Desc           | cription: (Describe                      | to the dep  | th needed to docur       | nent the               | indicator               | or confirm          | n the absence of indicators.)                          |
|------------------------|--|-------------|--------------------------|------------------------|-------------------------|---------------------|--|
| Depth                  | Matrix                                   |             | Redo                     | x Feature              | s                       |                     |  |
| (inches)               | Color (moist)                            | %           | Color (moist)            | %                      | Type <sup>1</sup>       | _Loc <sup>2</sup> _ | Texture Remarks  |
| 0-4                    | 10YR 5/2                                 | 95          | 10YR 6/8                 | 5                      | <u> </u>                | PL / M              | Silty Clay   |
| 4-20                   | 10YR 5/1                                 | <u>75</u>   | 10YR 6/1                 | 10                     | <u>D</u>                | <u>M</u>            | Silty Clay   |
| 4-20                   | 10YR 5/1                                 | 75          | 10YR 6/8                 | 10                     | <u> </u>                | <u>M</u>            | Silty Clay   |
| 4 - 20                 | 10YR 5/1                                 | <u>75</u>   | 10YR 5/6                 | 5                      | <u> </u>                | <u>M</u>            | Silty Clay   |
|                        |  |             |                          |                        |                         |                     |  |
|                        |  |             |                          |                        |                         |                     |  |
|                        |  |             |                          |                        |                         |                     |  |
| <sup>1</sup> Type: C=C | oncentration, D=Dep                      | letion, RM: | =Reduced Matrix, MS      | S=Maske                | d Sand Gr               | ains.               | <sup>2</sup> Location: PL=Pore Lining, M=Matrix.       |
| Hydric Soil            | Indicators:                              |             |                          |                        |                         |                     | Indicators for Problematic Hydric Soils <sup>3</sup> : |
| Histosol               | (A1)                                     |             | Sandy 0                  | Sleyed Ma              | atrix (S4)              |                     | Coast Prairie Redox (A16)                              |
| I —                    | oipedon (A2)                             |             |                          | Redox (St              |                         |                     | Dark Surface (S7)                                      |
| ı —                    | istic (A3)                               |             |                          | Matrix (               | ,                       |                     | Iron-Manganese Masses (F12)                            |
|                        | en Sulfide (A4)                          |             |                          |                        | neral (F1)              |                     | Very Shallow Dark Surface (TF12)                       |
|                        | d Layers (A5)                            |             |                          |                        | atrix (F2)              |                     | Other (Explain in Remarks)                             |
| ı —                    | ick (A10)                                | - (0.4.4)   |                          | d Matrix (             | -                       |                     |  |
| ı — ·                  | d Below Dark Surfac<br>ark Surface (A12) | e (A11)     | _                        | Dark Surfa             | ace (F6)<br>urface (F7) |                     | <sup>3</sup> Indicators of hydrophytic vegetation and  |
| _                      | Mucky Mineral (S1)                       |             |                          | o Dark Si<br>Depressio | , ,                     | 1                   | wetland hydrology must be present,                     |
| ı —                    | ucky Peat or Peat (S                     | 3)          | Redox I                  | Jepi essio             | 113 (1-0)               |                     | unless disturbed or problematic.                       |
|                        | Layer (if observed):                     |             |                          |                        |                         |                     | anicos distarbed el problematic.                       |
| _                      |  |             |                          |                        |                         |                     |  |
| Depth (in              | ches):                                   |             |                          |                        |                         |                     | Hydric Soil Present? Yes No                            |
| Remarks:               |  |             |                          |                        |                         |                     |  |
| Hydric                 | soil present.                            |             |                          |                        |                         |                     |  |
| HYDROLO                | GY                                       |             |                          |                        |                         |                     |  |
| Wetland Hy             | drology Indicators:                      |             |                          |                        |                         |                     |  |
| Primary India          | cators (minimum of c                     | ne is requi | red; check all that ap   | ply)                   |                         |                     | Secondary Indicators (minimum of two required)         |
| ✓ Surface              | Water (A1)                               |             | Water-Sta                | ined Leav              | res (B9)                |                     | Surface Soil Cracks (B6)                               |
| _                      | ater Table (A2)                          |             | Aquatic Fa               |                        | , ,                     |                     | Drainage Patterns (B10)                                |
| ✓ Saturation           |  |             | True Aqua                |                        |                         |                     | Dry-Season Water Table (C2)                            |
| 1 —                    | larks (B1)                               |             | Hydrogen                 |                        |                         |                     | Crayfish Burrows (C8)                                  |
|                        | nt Deposits (B2)                         |             | Oxidized F               |                        |                         | ing Roots           |  |
| I                      | posits (B3)                              |             | Presence                 |                        |                         |                     | Stunted or Stressed Plants (D1)                        |
| I                      | at or Crust (B4)                         |             | Recent Iro               |                        | •                       |                     |  |
| -                      | posits (B5)                              |             | Thin Muck                |                        |                         |                     | FAC-Neutral Test (D5)                                  |
| ı —                    | on Visible on Aerial                     | lmagery (B  | _                        |                        | . ,                     |                     |  |
| Sparsely               | y Vegetated Concave                      | e Surface ( |                          |                        |                         |                     |  |
| Field Obser            | vations:                                 |             |                          |                        |                         |                     |  |
| Surface Wat            | er Present? Y                            | es          | No Depth (in             | ches): 1               |                         | _                   |  |
| Water Table            | Present? Y                               | es 🖊        | No Depth (in             | ches): 0               |                         | _                   |  |
| Saturation P           |  |             | No Depth (in             |                        |                         | Wetl                | and Hydrology Present? Yes No                          |
|                        | oillary fringe)                          | dalide m    | onitoring well, aerial p | nhotoe n               | revious ins             | nections)           | if available:  |
| Describe Re            | corded Data (Stream                      | rgauge, mi  | mitoring well, aerial į  | oriotos, pi            | evious iris             | pections),          | ii avallable.  |
| Remarks:               |  |             |                          |                        |                         |                     |  |
| Wetland                | l hydrology <sub>l</sub>                 | oresen      | t.                       |                        |                         |                     |  |
|                        | 2 37 1                                   |             |                          |                        |                         |                     |  |
|                        |  |             |                          |                        |                         |                     |  |

#### WETLAND DETERMINATION DATA FORM – Midwest Region

| Project/Site: AEP Fostoria to Lima                           | (                  | City/Co | ounty: <u>F</u> | ostoria   | /Hancock   | Sampling Date:                 | 2022-06-29    |
|--|--------------------|---------|-----------------|-----------|--|--------------------------------|---------------|
| Applicant/Owner: AEP   |                    |         |                 |           | State: Ohio  | Sampling Point:                | 1-A UPL       |
| Investigator(s): Beth Hollinden, Chris Davisson              |                    | Section | n, Towns        | ship, Rar | nge: OH01 T2N R12E   | SN10                           |               |
|  |                    |         |                 |           | (concave, convex, none):   | None                           |               |
| Slope (%): 0 Lat: 41.137492                                  | ι                  | Long: _ | -83.47          | 71096     |  | Datum: WGS 8                   | 4             |
| Soil Map Unit Name: PmA                                      |                    |         |                 |           | NWI classific  | ation: R4SBC                   |               |
| Are climatic / hydrologic conditions on the site typical for | this time of yea   | ar? Ye  | es              | _ No _    | (If no, explain in R   | emarks.)                       |               |
| Are Vegetation, Soil, or Hydrology                           | _ significantly of | disturb | ed?             | Are "     | Normal Circumstances" p  | resent? Yes                    | No            |
| Are Vegetation, Soil, or Hydrology                           | _ naturally prol   | blemat  | tic?            | (If ne    | eded, explain any answe  | rs in Remarks.)                |               |
| SUMMARY OF FINDINGS - Attach site ma                         | p showing          | sam     | pling p         | oint lo   | ocations, transects  | , important fe                 | atures, etc.  |
| Hydrophytic Vegetation Present? Yes                          | No                 |         |                 |           |  |                                |               |
| Hydric Soil Present? Yes                                     |                    | - 1     |                 | ampled    |  |                                |               |
| Wetland Hydrology Present? Yes                               | No                 |         | within a        | a Wetlan  | id? Yes  | No                             |               |
| Remarks:   |                    |         |                 |           |  |                                |               |
| Upland point for Wetland 1-A.                                |                    |         |                 |           |  |                                |               |
| VEGETATION – Use scientific names of plan                    | ts.                |         |                 |           |  |                                |               |
|  | Absolute           | Domi    | inant Ind       | dicator   | Dominance Test work  | sheet:                         |               |
| Tree Stratum (Plot size: 30 ft r ) 1.                        | % Cover            |         |                 |           | Number of Dominant Sp<br>That Are OBL, FACW, o                     |                                | (A)           |
| 2  |                    |         |                 |           | Total Number of Domin  | ant                            |               |
| 3  |                    |         |                 |           | Species Across All Stra  |                                | (B)           |
| 4  |                    |         |                 |           | Percent of Dominant Sp   |                                |               |
| 5  |                    | – Tota  | L Cover         |           | That Are OBL, FACW, o  | or FAC: 0                      | (A/B)         |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                  |                    | – 10ta  | ai Covei        |           | Prevalence Index worl  | ksheet:                        |               |
| 1  |                    |         |                 |           | Total % Cover of:  |                                | / by:         |
| 2  |                    |         |                 |           | 1  | x 1 = 0                        |               |
| 3  |                    |         |                 |           | · —  | x 2 = 0                        |               |
| 4  |                    |         |                 |           |  | x 3 = <u>0</u>                 |               |
| 5  |                    |         |                 |           |  |                                |               |
| Herb Stratum (Plot size: 5 ft r )                            |                    | = Tota  | al Cover        |           | UPL species 0 Column Totals: 40                                    | (A) 160                        |               |
| 1. Thlaspi arvense   | 15                 |         | F/              | ACU_      | Coldilli Totals  | (A)                            | (b)           |
| 2. Asclepias syriaca   | 10                 |         |                 | ACU_      | Prevalence Index   |                                |               |
| 3. Cirsium arvense   | _ 10               |         |                 | ACU_      | Hydrophytic Vegetation   |                                |               |
| 4. Trifolium repens  | 5                  |         | F/              | ACU_      | 1 - Rapid Test for H   | , , , ,                        | ation         |
| 5  |                    |         |                 |           | 2 - Dominance Tes<br>3 - Prevalence Inde                           |                                |               |
| 6  |                    |         |                 |           | 3 - Prevalence Inde  |                                | do ounnoctina |
| 7  |                    |         |                 |           | data in Remarks  | s or on a separate             | sheet)        |
| 8  |                    |         |                 |           | Problematic Hydror   | phytic Vegetation <sup>1</sup> | (Explain)     |
| 9  |                    |         |                 |           |  |                                |               |
| Woody Vine Stratum (Plot size: 30 ft r )                     | 400/               | = Tota  | al Cover        |           | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu |                                |               |
| 1  |                    |         |                 |           | Hydrophytic  |                                |               |
| 2  |                    |         |                 |           | Vegetation   | a Na                           | <b>/</b>      |
|  |                    | = Tota  | al Cover        |           | Present? Yes   | s No                           |               |
| Remarks: (Include photo numbers here or on a separa          | te sheet.)         |         |                 |           |  |                                |               |
|  |                    |         |                 |           |  |                                |               |
|  |                    |         |                 |           |  |                                |               |

SOIL Sampling Point: 1-A UPL

| Profile Desc                 | cription: (Describe                | to the depth    | needed to docur         | nent the i             | indicator o                             | or confirm    | the absence of            | indicators.)   |
|------------------------------|------------------------------------|-----------------|-------------------------|------------------------|---|---------------|---------------------------|--|
| Depth                        | Matrix                             |                 |                         | x Feature              | s                                       |               |                           |  |
| (inches)                     | Color (moist)                      |                 | Color (moist)           | %                      | _Type <sup>1</sup>                      | _Loc*         |                           | Remarks  |
| 0 - 20                       | 10YR 3/2                           | _ <u>100</u>    |                         |                        |   |               | Silty Clay _              |  |
|                              |                                    |                 |                         |                        |   |               |                           |  |
| -                            |                                    |                 |                         |                        |   |               |                           |  |
| -                            |                                    |                 |                         |                        |   |               |                           |  |
|                              |                                    |                 |                         |                        |   |               |                           |  |
|                              |                                    |                 |                         |                        |   |               |                           |  |
|                              |                                    |                 |                         |                        |   |               |                           |  |
| 1Tuno: C=C:                  | ancentration D=Dec                 |                 | aduand Matrix MS        | - ———                  | d Sand Ore                              |               | <sup>2</sup> l coation: F | N = Pere Lining M=Metrix                               |
| Hydric Soil                  | oncentration, D=Dep<br>Indicators: | Dietion, Rivi-R | educed Matrix, Mis      | 5-Masket               | i Sand Gra                              | 11115.        |                           | PL=Pore Lining, M=Matrix. r Problematic Hydric Soils³: |
| Histosol                     | (A1)                               |                 | Sandy 0                 | Gleyed Ma              | atrix (S4)                              |               | Coast Pra                 | airie Redox (A16)                                      |
| ı —                          | oipedon (A2)                       |                 |                         | Redox (S5              |   |               | Dark Surf                 |  |
| ı —                          | istic (A3)                         |                 |                         | d Matrix (S            | ,                                       |               | _                         | ganese Masses (F12)                                    |
|                              | en Sulfide (A4)<br>d Layers (A5)   |                 |                         | Mucky Mir<br>Gleyed Ma |   |               |                           | llow Dark Surface (TF12)<br>plain in Remarks)          |
| _                            | ick (A10)                          |                 |                         | d Matrix (             |   |               | Other (Ex                 | piairi iri Kerriarks)                                  |
| ı —                          | d Below Dark Surfac                | e (A11)         |                         | Dark Surfa             |   |               |                           |  |
| Thick Da                     | ark Surface (A12)                  | , ,             | Deplete                 | d Dark Su              | ırface (F7)                             |               | 3Indicators of            | hydrophytic vegetation and                             |
| 1 – 1                        | Mucky Mineral (S1)                 |                 | Redox [                 | Depressio              | ns (F8)                                 |               |                           | ydrology must be present,                              |
|                              | icky Peat or Peat (S               |                 |                         |                        |   |               | unless dis                | sturbed or problematic.                                |
| l _                          | Layer (if observed)                | :               |                         |                        |   |               |                           |  |
| Type:                        | -h \.                              |                 | _                       |                        |   |               | Hydric Soil Pr            | esent? Yes No  |
| Remarks:                     | ches):                             |                 |                         |                        |   |               |                           |  |
| Hydric                       | soil absent.                       |                 |                         |                        |   |               |                           |  |
| HYDROLO                      | GY                                 |                 |                         |                        |   |               |                           |  |
| Wetland Hy                   | drology Indicators                 | :               |                         |                        |   |               |                           |  |
| Primary India                | cators (minimum of                 | one is required | d; check all that ap    | ply)                   |   |               | Secondary                 | Indicators (minimum of two required)                   |
| Surface                      | Water (A1)                         |                 | Water-Sta               | ined Leav              | es (B9)                                 |               | Surface                   | e Soil Cracks (B6)                                     |
| ı —                          | ater Table (A2)                    |                 | Aquatic Fa              | auna (B13              | )                                       |               | Drainag                   | ge Patterns (B10)                                      |
| Saturation                   |                                    |                 | True Aqua               | itic Plants            | (B14)                                   |               |                           | ason Water Table (C2)                                  |
| ı —                          | larks (B1)                         |                 | Hydrogen                |                        | , ,                                     |               |                           | h Burrows (C8)   |
|                              | nt Deposits (B2)                   |                 | Oxidized F              |                        |   |               |                           | tion Visible on Aerial Imagery (C9)                    |
| —                            | posits (B3)                        |                 | Presence                |                        | ,                                       | ,             | _                         | d or Stressed Plants (D1)                              |
|                              | at or Crust (B4)<br>posits (B5)    |                 | Recent Iro<br>Thin Muck |                        |   | a Solis (Co   | -                         | orphic Position (D2)<br>eutral Test (D5)               |
| I — .                        | on Visible on Aerial               | Imagery (B7)    |                         |                        |   |               | 1 AC-N                    | edital rest (D3)                                       |
| ı —                          | Vegetated Concav                   |                 |                         |                        |   |               |                           |  |
| Field Obser                  |                                    |                 | , <u> </u>              |                        | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | $\overline{}$ |                           |  |
| Surface Wat                  | er Present?                        | es No           | Depth (in               | ches):                 |   |               |                           |  |
| Water Table                  |                                    |                 | Depth (inc              |                        |   |               |                           |  |
| Saturation P                 | resent?                            |                 | Depth (in               |                        |   |               | and Hydrology P           | resent? Yes No   |
| (includes cap<br>Describe Re | corded Data (strean                | n gauge, moni   | toring well, aerial ¡   | photos, pr             | evious ins                              | pections),    | if available:             |  |
| Darrand                      |                                    |                 |                         |                        |   |               |                           |  |
| Remarks:                     |                                    | _               |                         |                        |   |               |                           |  |
| Wetland                      | l hydrology                        | absent.         |                         |                        |   |               |                           |  |
|                              |                                    |                 |                         |                        |   |               |                           |  |
|                              |                                    |                 |                         |                        |   |               |                           |  |

#### WETLAND DETERMINATION DATA FORM – Midwest Region

| Project/Site: AEP Fostoria to Lima          |                     |                | City/County | : Findlay   | /Hancock                                      | Sampling Date:                           | 2022-07-02                            |
|---|---------------------|----------------|-------------|-------------|---|--|---------------------------------------|
| Applicant/Owner: AEP                        |                     |                |             |             | State: Ohio                                   | Sampling Point:                          | 1-AD                                  |
| Investigator(s): Beth Hollinden, Chris      | Davisson            |                | Section, To | wnship, Ra  | nge: OH01 T1S R9E S                           | N11                                      |                                       |
| Landform (hillslope, terrace, etc.): Depre  |                     |                |             |             | (concave, convex, none):                      | _  |                                       |
| Slope (%): 2 Lat: 40.97569                  | )                   |                | Long:83     | .785701     |   | Datum: WGS 8                             | 34                                    |
| Soil Map Unit Name: Blg1B1                  |                     |                |             |             | NWI classific                                 | ation: PUBGx                             |                                       |
| Are climatic / hydrologic conditions on the | site typical for th | his time of ye | ar? Yes     | ✓ No_       | (If no, explain in R                          | emarks.)                                 |                                       |
| Are Vegetation, Soil, or Hy                 | drology             | significantly  | disturbed?  | Are '       | 'Normal Circumstances" p                      | resent? Yes                              | No                                    |
| Are Vegetation, Soil, or Hy                 | drology             | naturally pro  | blematic?   | (If ne      | eded, explain any answe                       | rs in Remarks.)                          |                                       |
| SUMMARY OF FINDINGS - Atta                  | ach site mar        | showing        | samplin     | g point l   | ocations, transects                           | , important fe                           | eatures, etc.                         |
| Hydrophytic Vegetation Present?             | Yes                 |                |             |             |   |  |                                       |
| Hydric Soil Present?                        | Yes                 |                |             | e Sampled   |   | No                                       |                                       |
| Wetland Hydrology Present?  Remarks:        | Yes                 | No             | with        | in a Wetlar | nd? Yes                                       | No                                       | -                                     |
|   |                     |                |             |             |   |  |                                       |
| PEM. ORAM score of 30.                      |                     |                |             |             |   |  |                                       |
| VEGETATION – Use scientific na              | mes of plant        | s.             |             |             |   |  |                                       |
|   |                     | Absolute       |             | Indicator   | Dominance Test work                           | sheet:                                   |                                       |
| Tree Stratum (Plot size:30 ft r1            |                     |                | Species?    | _Status_    | Number of Dominant S<br>That Are OBL, FACW, o | pecies<br>or FAC: 2                      | (A)                                   |
| 2   |                     |                |             |             | Total Number of Domin                         | ant                                      |                                       |
| 3   |                     |                |             |             | Species Across All Stra                       | ıta: <u>2</u>                            | (B)                                   |
| 4<br>5                                      |                     |                |             |             | Percent of Dominant Sp                        |  |                                       |
|   |                     |                | = Total Co  | ver         | That Are OBL, FACW,                           | or FAC: 100                              | (A/B)                                 |
| Sapling/Shrub Stratum (Plot size: 15 ft     | t r )               |                |             |             | Prevalence Index wor                          |  |                                       |
| 1   |                     |                |             |             | Total % Cover of:                             |  | y by:                                 |
| 2   |                     |                |             |             |   | $x 1 = \frac{10}{200}$                   |                                       |
| 3   |                     |                |             |             | FACW species 100                              | x = 200                                  |                                       |
| 4   |                     |                |             |             | 1710 openice                                  | $\times 3 = 0$ $\times 4 = 0$            |                                       |
| 5   |                     |                |             |             | FACU species 0 UPL species 0                  |  |                                       |
| Herb Stratum (Plot size: 5 ft r             | )                   |                | = Total Co  | ver         | Column Totals: 110                            | (A) $x = 0$                              | ) (B)                                 |
| 1. Phalaris arundinacea                     |                     | 90             |             | FACW        | Column Totals                                 | (^)                                      | (B)                                   |
| 2. Scirpus atrovirens                       |                     | _ 10           |             | OBL         | Prevalence Index                              | = B/A = 1.91                             |                                       |
| 3   |                     |                |             |             | Hydrophytic Vegetation                        |  |                                       |
| 4   |                     |                |             |             | ✓ 1 - Rapid Test for H                        | , , , ,                                  | ation                                 |
| 5   |                     |                |             |             | 2 - Dominance Tes                             |  |                                       |
| 6   |                     |                |             |             | ✓ 3 - Prevalence Inde                         |  |                                       |
| 7   |                     |                |             |             | 4 - Morphological A                           | Adaptations¹ (Prov<br>s or on a separate |                                       |
| 8   |                     |                |             |             | Problematic Hydro                             |  | , , , , , , , , , , , , , , , , , , , |
| 9   |                     |                |             |             |   | ony no vogotation                        | (Explain)                             |
| 10  |                     |                | = Total Co  |             | <sup>1</sup> Indicators of hydric soi         |  |                                       |
| Woody Vine Stratum (Plot size: 30 ft i      | <u>(</u> )          | 10070          | = Total Co  | ver         | be present, unless distu                      | ırbed or problema                        | itic.                                 |
| 1. Vitis riparia                            |                     | 10             |             | FACW        | Hydrophytic                                   |  |                                       |
| 2   |                     |                |             |             | Vegetation                                    | s No                                     |                                       |
|   |                     | 10%            | = Total Co  | ver         | Present? Yes                                  | s No                                     |                                       |
| Remarks: (Include photo numbers here        | or on a separate    | e sheet.)      |             |             |   |  |                                       |
| Hydrophytic vegetation p                    | oresent.            |                |             |             |   |  |                                       |
| ,   |                     |                |             |             |   |  |                                       |

SOIL Sampling Point: 1-AD

| Profile Descript   | ion. (Describe   | to the depth                                      | i needed to docur   | nent the   | indicator  | or confirr        | n the absence of  | indicators.)   |
|--|--|---|---|--|--|-------------------|---|--|
| Depth  | Matrix   |   |   | x Feature  |  |                   |   | •  |
| (inches)   | Color (moist)  | %   | Color (moist)   | %  | _Type <sup>1</sup>   | _Loc <sup>2</sup> | Texture   | Remarks  |
| 0-20 10  | YR 4/2   | 95  | 10YR 5/6  | 5  | <u>C</u>   | <u>M</u>          | Silty Clay  |  |
| -  |  |   |   |  |  |                   |   |  |
|  |  |   |   |  |  |                   |   |  |
|  |  |   |   |  |  |                   |   |  |
| <del></del> -  |  |   |   |  |  |                   |   |  |
|  |  |   |   |  |  |                   |   |  |
|  |  |   |   |  |  |                   |   |  |
| -  |  |   |   |  |  |                   |   |  |
| <sup>1</sup> Type: C=Conce   | entration. D=Dep   | letion. RM=F                                      | Reduced Matrix, MS  | S=Maske  | - ———<br>d Sand Gr   | ains.             | <sup>2</sup> Location: F  | PL=Pore Lining, M=Matrix.  |
| Hydric Soil India  |  |   |   |  |  |                   |   | r Problematic Hydric Soils³:   |
| Histosol (A1)  | )  |   | Sandy 0   | Sleyed M   | atrix (S4)   |                   | Coast Pra   | airie Redox (A16)  |
| Histic Epiped  | don (A2)   |   | Sandy F   | Redox (S   | 5)   |                   | Dark Surf   | face (S7)  |
| Black Histic   | . ,  |   |   | d Matrix (   | ,  |                   |   | ganese Masses (F12)  |
| Hydrogen St  | , ,  |   |   | -  | neral (F1)   |                   |   | llow Dark Surface (TF12)   |
| Stratified Lay   |  |   |   |  | atrix (F2)   |                   | Other (Ex   | rplain in Remarks)   |
| 2 cm Muck (  | A10)<br>low Dark Surfac  | o (A11)   | ✓ Deplete   | d Matrix (<br>Dark Surf  | . ,  |                   |   |  |
| ı —  | Surface (A12)  | C (A11)   |   |  | urface (F7   | )                 | 3Indicators of  | hydrophytic vegetation and   |
| _  | y Mineral (S1)   |   |   | Depression   | ,  | ,                 |   | ydrology must be present,  |
| ı —  | Peat or Peat (S  | 3)  | _   |  | ` ′  |                   | unless dis  | sturbed or problematic.  |
| Restrictive Laye   | er (if observed):  |   |   |  |  |                   |   |  |
| Туре:  |  |   | _   |  |  |                   | Unidada Cali Da   |  |
| Depth (inches  | s):  |   | _   |  |  |                   | Hydric Soil Pr  | resent? Yes No   |
| Remarks:   |  |   |   |  |  |                   |   |  |
| Hydric soi   | Inrecent   |   |   |  |  |                   |   |  |
| Tryunic Sur  | I MESEIII.   |   |   |  |  |                   |   |  |
| -  | . p. 555   |   |   |  |  |                   |   |  |
|  | . р. осо   |   |   |  |  |                   |   |  |
| -  |  |   |   |  |  |                   |   |  |
| HYDROLOGY  |  |   |   |  |  |                   |   |  |
| HYDROLOGY Wetland Hydrol   |  |   |   |  |  |                   |   |  |
| Wetland Hydrol   | ogy Indicators:  |   | d; check all that ap  | pply)  |  |                   | Secondary   | Indicators (minimum of two required)   |
| Wetland Hydrol   | ogy Indicators:  |   | d; check all that ap<br>Water-Sta   |  | /es (B9)   |                   |   | Indicators (minimum of two required) e Soil Cracks (B6)  |
| Wetland Hydrolo Primary Indicator  | ogy Indicators:<br>rs (minimum of o  |   |   | ined Leav  | ` '  |                   | Surface   |  |
| Wetland Hydrolo Primary Indicator Surface Wat  | ogy Indicators: rs (minimum of o er (A1) Table (A2)  |   | Water-Sta   | ined Leav<br>una (B13  | 3)   |                   | Surface   | e Soil Cracks (B6)   |
| Wetland Hydrol Primary Indicator Surface Wat High Water  | ogy Indicators:<br>rs (minimum of o<br>er (A1)<br>Table (A2)   |   | Water-Sta   | ined Leav<br>una (B13<br>tic Plants  | B)<br>s (B14)  |                   | Surface Draina Dry-Se   | e Soil Cracks (B6)<br>ge Patterns (B10)  |
| Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A   | ogy Indicators: rs (minimum of o ter (A1) Table (A2) A3) s (B1)  |   | Water-Sta<br>Aquatic Fa<br>True Aqua  | ined Leav<br>una (B13<br>tic Plants<br>Sulfide O   | B)<br>s (B14)<br>odor (C1)   | ring Roots        | Surface Praina Dry-Se Crayfis                                       | e Soil Cracks (B6)<br>ge Patterns (B10)<br>eason Water Table (C2)  |
| Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (A Water Marks  | ogy Indicators: rs (minimum of orer (A1) Table (A2) A3) s (B1) eposits (B2)  |   | Water-Stai<br>Aquatic Fa<br>True Aqua<br>Hydrogen   | ined Leav<br>nuna (B13<br>tic Plants<br>Sulfide O<br>Rhizosphe   | B)<br>s (B14)<br>odor (C1)<br>eres on Liv  | -                 | Surface Propress Draina Dry-Se Crayfis (C3) Satura                  | e Soil Cracks (B6)<br>ge Patterns (B10)<br>eason Water Table (C2)<br>sh Burrows (C8)   |
| Wetland Hydrol Primary Indicator  Surface Wat High Water  ✓ Saturation (A Water Marks Sediment De  | ogy Indicators: rs (minimum of o ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)   |   | <ul><li>Water-Stai</li><li>Aquatic Fa</li><li>True Aqua</li><li>Hydrogen</li><li>Oxidized F</li></ul>               | ined Leav<br>nuna (B13<br>tic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduc   | B) (B14) (dor (C1) eres on Lived Iron (C-  | 4)                | Surface Propress Crayfis (C3) Satura Stunte                         | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)  |
| Wetland Hydrol Primary Indicator Surface Wat High Water ✓ Saturation (A Water Marks Sediment De Drift Deposit  | ogy Indicators: rs (minimum of o ter (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4)  |   | Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F   | ined Leav<br>nuna (B13<br>titc Plants<br>Sulfide O<br>Rhizosphe<br>of Reduct<br>n Reduct   | B)  (B14)  (dor (C1)  eres on Lived Iron (C4)  ion in Tille                      | 4)                | Surface Draina Dry-Se Crayfis (C3) Satura Stunte 6) Geome           | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)  |
| Wetland Hydrolo Primary Indicator Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V  | ogy Indicators: rs (minimum of or rer (A1) Table (A2) A3) s (B1) eposits (B2) ss (B3) Crust (B4) ss (B5) //isible on Aerial I  | ne is require                                     | Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or                          | ined Leav<br>nuna (B13<br>tic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduct<br>n Reduct<br>Surface   | B) s (B14) dor (C1) eres on Liv ed Iron (C- ion in Tille (C7)                    | 4)                | Surface Draina Dry-Se Crayfis (C3) Satura Stunte 6) Geome           | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)                   |
| Wetland Hydrolo Primary Indicator Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V  | ogy Indicators: rs (minimum of o er (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5)  | ne is require                                     | Water-Stal Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or                          | ined Leavanna (B13<br>tic Plants<br>Sulfide C<br>Rhizosphe<br>of Reduct<br>n Reduct<br>Surface<br>Well Data  | B) s (B14) dor (C1) eres on Liv ed Iron (C- ion in Tille (C7) a (D9)             | 4)                | Surface Draina Dry-Se Crayfis (C3) Satura Stunte 6) Geome           | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)                   |
| Wetland Hydrolo Primary Indicator Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V  | ogy Indicators: rs (minimum of orer (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) //isible on Aerial I getated Concave  | magery (B7)<br>Surface (B8                        | Water-Stal Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V  Other (Exp | ined Leav<br>duna (B13<br>sulfide C<br>Rhizosphe<br>of Reduct<br>n Reduct<br>Surface<br>Well Data<br>olain in Re   | B) s (B14) dor (C1) eres on Liv ed Iron (C- ion in Tille (C7) a (D9) emarks)     | 4)<br>od Soils (C | Surface Draina Dry-Se Crayfis (C3) Satura Stunte 6) Geome           | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)                   |
| Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Inundation V Sparsely Ve   | ogy Indicators: rs (minimum of or rer (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) risible on Aerial I getated Concave ons: resent?                                 | magery (B7) e Surface (B8                         | Water-Stal Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp  | ined Leavi<br>duna (B13<br>tic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduct<br>n Reduct<br>Surface<br>Well Data<br>olain in Ro  | B) G (B14) Gdor (C1) Gres on Lived Iron (C-1) Gion in Tille (C7) G (D9) Gemarks) | 4)<br>d Soils (Co | Surface  Propose  Crayfis  (C3) Satura  Stunte  Geome               | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)                   |
| Wetland Hydrol Primary Indicator Surface Wat High Water ✓ Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ver  | ogy Indicators: rs (minimum of other (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) risible on Aerial I getated Concave ons: resent? Y sent? Y                        | magery (B7) e Surface (B8) fes No                 | Water-Stai Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp  | ined Leavanna (B13 tic Plants Sulfide O Rhizosphe of Reduct n Reduct Surface Well Data blain in Re ches): ches):   | B) G (B14) Gdor (C1) Gres on Lived Iron (C-1) Gion in Tille (C7) G (D9) Gemarks) | 4) d Soils (Co    | Surface  Draina  Dry-Se  Crayfis  (C3) Satura  Stunte  6) Geomo     | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) leutral Test (D5) |
| Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ver Field Observatic Surface Water Prese Saturation Prese   | ogy Indicators: rs (minimum of o rer (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) risible on Aerial I getated Concave ons: resent? yent? Y                          | magery (B7) e Surface (B8) fes No                 | Water-Stal Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp  | ined Leavanna (B13 tic Plants Sulfide O Rhizosphe of Reduct n Reduct Surface Well Data blain in Re ches): ches):   | B) G (B14) Gdor (C1) Gres on Lived Iron (C-1) Gion in Tille (C7) G (D9) Gemarks) | 4) d Soils (Co    | Surface  Draina  Dry-Se  Crayfis  (C3) Satura  Stunte  6) Geomo     | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)                   |
| Wetland Hydrol Primary Indicator Surface Wat High Water ✓ Saturation (A Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ve Field Observatio Surface Water Prese (includes capillar   | ogy Indicators: rs (minimum of other (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) risible on Aerial I getated Concave ons: resent? y ent? y fringe)                 | magery (B7) e Surface (B8 fes No                  | Water-Stai Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp  | ined Leavanna (B13 tic Plants Sulfide CRhizosphe of Reduct on Reduct Surface Well Data blain in Reches):ches):ches):ches):ches):ches):ches):ches):ches):ches):ches):ches | B) s (B14) dor (C1) eres on Liv ed Iron (C- ion in Tille (C7) a (D9) emarks)     | 4) d Soils (Co    | Surface  Draina  Dry-Se  Crayfis  (C3) Satura  Stunte  Geome  FAC-N | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) leutral Test (D5) |
| Wetland Hydrol Primary Indicator Surface Wat High Water ✓ Saturation (A Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ve Field Observatio Surface Water Prese (includes capillar   | ogy Indicators: rs (minimum of other (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) risible on Aerial I getated Concave ons: resent? y ent? y fringe)                 | magery (B7) e Surface (B8 fes No                  | Water-Stai Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp  | ined Leavanna (B13 tic Plants Sulfide CRhizosphe of Reduct on Reduct Surface Well Data blain in Reches):ches):ches):ches):ches):ches):ches):ches):ches):ches):ches):ches | B) s (B14) dor (C1) eres on Liv ed Iron (C- ion in Tille (C7) a (D9) emarks)     | 4) d Soils (Co    | Surface  Draina  Dry-Se  Crayfis  (C3) Satura  Stunte  Geome  FAC-N | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) leutral Test (D5) |
| Wetland Hydrol Primary Indicator Surface Wat High Water ✓ Saturation (A Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ve Field Observatio Surface Water Prese (includes capillar   | ogy Indicators: rs (minimum of other (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) risible on Aerial I getated Concave ons: resent? y ent? y fringe)                 | magery (B7) e Surface (B8 fes No                  | Water-Stai Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp  | ined Leavanna (B13 tic Plants Sulfide CRhizosphe of Reduct on Reduct Surface Well Data blain in Reches):ches):ches):ches):ches):ches):ches):ches):ches):ches):ches):ches | B) s (B14) dor (C1) eres on Liv ed Iron (C- ion in Tille (C7) a (D9) emarks)     | 4) d Soils (Co    | Surface  Draina  Dry-Se  Crayfis  (C3) Satura  Stunte  Geome  FAC-N | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) leutral Test (D5) |
| Wetland Hydrolo Primary Indicator Surface Wat High Water ✓ Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ver Field Observatio Surface Water Programmer Saturation Prese (includes capillar Describe Record | ogy Indicators: rs (minimum of or rer (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) risible on Aerial I getated Concave ons: resent? yent? y fringe) ed Data (stream | magery (B7) e Surface (B8 es Ne fes Ne gauge, mon | Water-Stal Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp  | ined Leavanna (B13 tic Plants Sulfide CRhizosphe of Reduct on Reduct Surface Well Data blain in Reches):ches):ches):ches):ches):ches):ches):ches):ches):ches):ches):ches | B) s (B14) dor (C1) eres on Liv ed Iron (C- ion in Tille (C7) a (D9) emarks)     | 4) d Soils (Co    | Surface  Draina  Dry-Se  Crayfis  (C3) Satura  Stunte  Geome  FAC-N | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) leutral Test (D5) |
| Wetland Hydrolo Primary Indicator  Surface Wat High Water  ✓ Saturation (A Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ver Field Observation Surface Water Programme Saturation Prese (includes capillar Describe Record           | ogy Indicators: rs (minimum of or rer (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) risible on Aerial I getated Concave ons: resent? yent? y fringe) ed Data (stream | magery (B7) e Surface (B8 es Ne fes Ne gauge, mon | Water-Stal Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp  | ined Leavanna (B13 tic Plants Sulfide CRhizosphe of Reduct on Reduct Surface Well Data blain in Reches):ches):ches):ches):ches):ches):ches):ches):ches):ches):ches):ches | B) s (B14) dor (C1) eres on Liv ed Iron (C- ion in Tille (C7) a (D9) emarks)     | 4) d Soils (Co    | Surface  Draina  Dry-Se  Crayfis  (C3) Satura  Stunte  Geome  FAC-N | e Soil Cracks (B6) ge Patterns (B10) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) leutral Test (D5) |

#### WETLAND DETERMINATION DATA FORM – Midwest Region

| Project/Site: AEP Fostoria to Lima                               |                     | City/Co | unty:  | Findlay/            | Hancock Sampling Date: 2022-07-02   |
|--|---------------------|---------|--------|---------------------|---|
| Applicant/Owner: AEP   |                     |         |        |                     | State: Ohio Sampling Point: 1-AD UPL  |
| Investigator(s): Beth Hollinden, Chris Davisson                  |                     | Section | n, Tow | nship, Rar          | nge: OH01 T1S R9E SN11  |
|  |                     |         |        |                     | (concave, convex, none): None   |
| Slope (%): 0 Lat: 40.975503                                      | ι                   | ong: _  | -83.   | 785633              | Datum: WGS 84   |
| Soil Map Unit Name: Blg1B1                                       |                     |         |        |                     | NWI classification: N/A   |
| Are climatic / hydrologic conditions on the site typical for the | is time of yea      | r? Ye   | s      | No _                | (If no, explain in Remarks.)  |
| Are Vegetation, Soil, or Hydrology                               | significantly o     | listurb | ed?    | Are "               | Normal Circumstances" present? Yes No   |
| Are Vegetation, Soil, or Hydrology                               | naturally prob      | olemat  | ic?    | (If ne              | eded, explain any answers in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map                            | showing             | samp    | pling  | point lo            | ocations, transects, important features, etc.   |
| Hydrophytic Vegetation Present? Yes N                            | 10 <u> </u>         |         |        |                     |   |
| Hydric Soil Present? Yes N                                       | No                  |         | ls the | Sampled             |   |
| Wetland Hydrology Present? Yes N                                 | No                  |         | withi  | n a Wetlan          | nd? Yes No  |
| Remarks:   |                     |         |        |                     |   |
| Upland point for Wetland 1-AD. Mo                                | wed. So             | oil c   | omį    | oacted              | I.  |
|  |                     |         |        |                     |   |
| VEGETATION – Use scientific names of plants                      |                     |         |        |                     |   |
| Tree Stratum (Plot size:30 ft r)                                 | Absolute<br>% Cover |         |        | Indicator<br>Status | Dominance Test worksheet:   |
| 1  |                     |         |        |                     | Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  |
| 2.   |                     |         |        |                     | Total Number of Dominant  |
| 3  |                     |         |        |                     | Species Across All Strata: 2 (B)  |
| 4  |                     |         |        |                     | Percent of Deminant Species   |
| 5  |                     |         |        |                     | Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                      |                     | = Total | I Cove | er                  | Prevalence Index worksheet:   |
| 1  |                     |         |        |                     | Total % Cover of:Multiply by:   |
| 2.   |                     |         |        |                     | OBL species 0 x 1 = 0   |
| 3  |                     |         |        |                     | FACW species $0 \times 2 = 0$   |
| 4  |                     |         |        |                     | FAC species 0 x 3 = 0   |
| 5  |                     |         |        |                     | FACU species 95 x 4 = 380   |
|  |                     | = Total | I Cove | er er               | UPL species <u>5</u> x 5 = <u>25</u>  |
| Herb Stratum (Plot size: 5 ft r )                                | 55                  | ~       | ,      | FACU                | Column Totals: 100 (A) 405 (B)  |
| 1. Festuca rubra 2. Glechoma hederacea                           | - 30                |         |        | FACU                | Prevalence Index = B/A = 4.05   |
| 3. Solidago canadensis   | 10                  |         |        | FACU<br>FACU        | Hydrophytic Vegetation Indicators:  |
| Daucus carota  | - 5                 |         |        | UPL                 | 1 - Rapid Test for Hydrophytic Vegetation   |
| 5  |                     |         | —      |                     | 2 - Dominance Test is >50%  |
| 6.   |                     |         |        |                     | 3 - Prevalence Index is ≤3.0¹   |
| 7  |                     |         |        |                     | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting  |
| 8  |                     |         |        |                     | data in Remarks or on a separate sheet)   |
| 9  |                     |         |        |                     | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |
| 10.  |                     |         |        |                     | 4   |
|  | 100%                | = Total | I Cove | er er               | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic. |
| Woody Vine Stratum (Plot size: 30 ft r )                         |                     |         |        |                     | be present, unless distarsed of prosiematic.  |
| 1  |                     |         |        |                     | Hydrophytic   |
| 2  |                     |         |        |                     | Vegetation   Present?   Yes No  |
| Remarks: (Include photo numbers here or on a separate            |                     | = Total | I Cove | er                  |   |
|  | 51166t.)            |         |        |                     |   |
| Hydrophytic vegetation absent.                                   |                     |         |        |                     |   |
|  |                     |         |        |                     |   |

SOIL Sampling Point: 1-AD UPL

| Profile Desc           | cription: (Describe                         | to the dept    | h needed to docur       | nent the                  | indicator          | or confirm       | n the absence  | of indicators.)   |
|------------------------|---|----------------|-------------------------|---------------------------|--------------------|------------------|--|---|
| Depth                  | Matrix                                      |                | Redo                    | x Feature                 | s                  |                  |  |   |
| (inches)               | Color (moist)                               | %              | Color (moist)           | %                         | _Type <sup>1</sup> | Loc <sup>2</sup> | Texture  | Remarks   |
| 0 - 20                 | 10YR 7/3                                    | 90             | 10YR 5/1                | 10                        | <u>D</u>           | <u>M</u>         | Silty Clay   | Highly compacted.   |
| -                      |   |                |                         |                           |                    |                  |  |   |
|                        |   |                |                         |                           |                    |                  |  |   |
|                        |   |                |                         |                           |                    |                  |  |   |
|                        |   |                |                         |                           |                    |                  |  |   |
| <u> </u>               |   |                |                         |                           |                    |                  |  |   |
| <u> </u>               |   |                |                         |                           |                    |                  |  |   |
|                        |   |                |                         |                           |                    |                  |  |   |
| <sup>1</sup> Type: C=C | oncentration, D=Dep                         | oletion, RM=   | Reduced Matrix, MS      | S=Maske                   | d Sand Gr          | ains.            |  | : PL=Pore Lining, M=Matrix.                               |
| Hydric Soil            | Indicators:                                 |                |                         |                           |                    |                  |  | for Problematic Hydric Soils <sup>3</sup> :               |
| Histosol               |   |                |                         | -                         | atrix (S4)         |                  | _  | Prairie Redox (A16)                                       |
| I —                    | pipedon (A2)<br>istic (A3)                  |                |                         | Redox (St<br>d Matrix (\$ |                    |                  |  | Surface (S7)<br>anganese Masses (F12)                     |
| ı —                    | en Sulfide (A4)                             |                |                         |                           | neral (F1)         |                  | _  | challow Dark Surface (TF12)                               |
|                        | d Layers (A5)                               |                |                         |                           | atrix (F2)         |                  |  | (Explain in Remarks)                                      |
| 2 cm Mu                | uck (A10)                                   |                | Deplete                 | d Matrix (                | (F3)               |                  |  |   |
| ı —                    | d Below Dark Surfac                         | ce (A11)       | _                       | Dark Surf                 | . ,                |                  | 2  |   |
| _                      | ark Surface (A12)                           |                |                         |                           | urface (F7         | )                |  | of hydrophytic vegetation and                             |
| 1 — 1                  | /lucky Mineral (S1)<br>ucky Peat or Peat (S | (3)            | Redox I                 | Depressio                 | ons (F8)           |                  |  | d hydrology must be present,<br>disturbed or problematic. |
|                        | Layer (if observed)                         |                |                         |                           |                    |                  | The state of the s | distarbed of problematic.                                 |
| _                      |   |                |                         |                           |                    |                  |  | ,   |
| 1                      | ches):                                      |                |                         |                           |                    |                  | Hydric Soil  | Present? Yes No   |
| Remarks:               | · -   |                |                         |                           |                    |                  |  |   |
| l livraluita           | : !   |                |                         |                           |                    |                  |  |   |
| Hyaric                 | soil absent.                                |                |                         |                           |                    |                  |  |   |
|                        |   |                |                         |                           |                    |                  |  |   |
|                        |   |                |                         |                           |                    |                  |  |   |
| HYDROLO                | GY  |                |                         |                           |                    |                  |  |   |
| Wetland Hy             | drology Indicators                          | :              |                         |                           |                    |                  |  |   |
| Primary Indi           | cators (minimum of                          | one is require | ed; check all that ap   | ply)                      |                    |                  | Seconda  | ary Indicators (minimum of two required)                  |
| Surface                | Water (A1)                                  |                | Water-Sta               | ined Leav                 | res (B9)           |                  | Surf   | face Soil Cracks (B6)                                     |
| High Wa                | ater Table (A2)                             |                | Aquatic Fa              | iuna (B13                 | 3)                 |                  | Drai   | nage Patterns (B10)                                       |
| Saturati               | on (A3)                                     |                | True Aqua               | tic Plants                | (B14)              |                  | Dry-   | -Season Water Table (C2)                                  |
| ı —                    | larks (B1)                                  |                | Hydrogen                |                           |                    |                  |  | yfish Burrows (C8)  |
|                        | nt Deposits (B2)                            |                | Oxidized F              |                           |                    | -                |  | uration Visible on Aerial Imagery (C9)                    |
|                        | posits (B3)                                 |                | Presence                |                           | •                  | •                | _  | nted or Stressed Plants (D1)                              |
|                        | at or Crust (B4)                            |                | Recent Iro              |                           |                    | a Solis (Ce      | <i>-</i>   | omorphic Position (D2)<br>C-Neutral Test (D5)             |
|                        | oosits (B5)<br>on Visible on Aerial         | Imagery (B7    | Thin Muck ) Gauge or \  |                           |                    |                  |  | -Neutral Test (D3)  |
| ı —                    | y Vegetated Concav                          |                |                         |                           |                    |                  |  |   |
| Field Obser            |   |                |                         |                           |                    |                  |  |   |
| Surface Wat            |   | res N          | lo Depth (in            | ches):                    |                    |                  |  |   |
| Water Table            |   |                | lo Pepth (inc           |                           |                    |                  |  |   |
| Saturation P           |   |                | lo Depth (in            |                           |                    |                  | land Hydrolog  | y Present? Yes No   |
| (includes ca           | pillary fringe)                             |                |                         |                           |                    |                  |  | ,                   |
| Describe Re            | corded Data (strean                         | n gauge, mo    | nitoring well, aerial p | photos, p                 | revious ins        | spections),      | if available:  |   |
| Remarks:               |   |                |                         |                           |                    |                  |  |   |
|                        |   |                |                         |                           |                    |                  |  |   |
| ∣Wetland               | l hydrology                                 | absent.        |                         |                           |                    |                  |  |   |
|                        |   |                |                         |                           |                    |                  |  |   |
|                        |   |                |                         |                           |                    |                  |  |   |

#### WETLAND DETERMINATION DATA FORM - Midwest Region

| Project/Site: AEP Fostoria to Lima                                | (                   | City/Count | y: <u>Findlay</u>   | /Hancock  | Sampling Date: 2022-07-02  |
|---|---------------------|------------|---------------------|---|--|
| Applicant/Owner: AEP  |                     |            |                     | State: Ohio                                     | Sampling Point: 1-AE   |
| Investigator(s): Beth Hollinden, Chris Davisson                   | ;                   | Section, T | ownship, Ra         | <sub>nge:</sub> OH01 T1S R9E S                  | N11  |
| Landform (hillslope, terrace, etc.): Depression                   |                     |            | Local relief        | (concave, convex, none):                        | Concave  |
| Slope (%): 2 Lat: 40.968542                                       |                     | Long:83    | 3.795819            |   | Datum: WGS 84  |
| Soil Map Unit Name: McA   |                     |            |                     | NWI classific                                   | ation: R2UBH   |
| Are climatic / hydrologic conditions on the site typical for this |                     |            |                     |   |  |
| Are Vegetation, Soil, or Hydrology signature.                     | gnificantly o       | disturbed? | Are °               | 'Normal Circumstances" p                        | present? Yes No  |
| Are Vegetation, Soil, or Hydrology na                             | aturally prol       | blematic?  | (If ne              | eded, explain any answe                         | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map s                           | howing              | sampliı    | ng point l          | ocations, transects                             | , important features, etc.   |
| Hydrophytic Vegetation Present? Yes No                            | )                   |            |                     |   |  |
| Hydric Soil Present? Yes No                                       |                     |            | he Sampled          |   | No   |
| Wetland Hydrology Present? Yes V No Remarks:                      | <u>'</u>            | Wit        | hin a Wetlar        | id? fes   | NO   |
|   |                     |            |                     |   |  |
| PEM. ORAM score of 35.  |                     |            |                     |   |  |
| <b>VEGETATION</b> – Use scientific names of plants.               |                     |            |                     |   |  |
|   | Absolute<br>% Cover |            | nt Indicator Status | Dominance Test work                             |  |
| 1   |                     |            | <u> </u>            | Number of Dominant Sp<br>That Are OBL, FACW, of |  |
| 2.  |                     |            |                     | Total Number of Domin                           | ant  |
| 3   |                     |            |                     | Species Across All Stra                         | _  |
| 4   |                     |            |                     | Percent of Dominant Sp                          | pecies   |
| 5   |                     |            |                     | That Are OBL, FACW, o                           | or FAC: 100 (A/B)  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                     | - Total Co | over                | Prevalence Index wor                            | ksheet:  |
| 1. Cornus alba  | 5                   |            | FACW_               | Total % Cover of:                               |  |
| 2   |                     |            |                     | 1   | $x = \frac{0}{220}$  |
| 3   |                     |            |                     | FACW species 115                                | x = 2 = 230<br>x = 3 = 0   |
| 4<br>5  |                     |            |                     |   | $\begin{array}{c} x 3 = 0 \\ x 4 = 0 \end{array}$                      |
| 0   |                     | = Total Co | over                |   | x 5 = 0  |
| Herb Stratum (Plot size: 5 ft r )                                 |                     |            |                     | Column Totals: 115                              | (A) 230 (B)  |
| 1. Phalaris arundinacea   | 100                 |            | FACW                | Dravelanes Index                                | = B/A = <u>2.00</u>  |
| 2   |                     |            |                     | Hydrophytic Vegetation                          |  |
| 3<br>4  |                     |            |                     | ✓ 1 - Rapid Test for H                          |  |
| 5   |                     |            |                     | 2 - Dominance Tes                               |  |
| 6   |                     |            |                     | ✓ 3 - Prevalence Inde                           | ex is ≤3.0 <sup>1</sup>  |
| 7   |                     |            |                     | 4 - Morphological A                             | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |
| 8   |                     |            |                     | 1   | phytic Vegetation <sup>1</sup> (Explain)                               |
| 9   |                     |            |                     |   | (=:::::::::::::::::::::::::::::::::::::                                |
| 10  | 100%                | - Total Co |                     |   | I and wetland hydrology must   |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 10070               | - Total Co | ovei                | be present, unless distu                        | irbed or problematic.  |
| 1. Vitis riparia  | 10                  |            | FACW                | Hydrophytic                                     |  |
| 2   | 109/                |            |                     | Vegetation Yes                                  | s No   |
| Pomarke: (Include photo numbers have as an a constant of          |                     | = Total Co | over                |   |  |
| Remarks: (Include photo numbers here or on a separate si          | ieet.)              |            |                     |   |  |
| Hydrophytic vegetation present.                                   |                     |            |                     |   |  |
|   |                     |            |                     |   |  |

SOIL Sampling Point: 1-AE

| Profile Desc           | ription: (Describe               | to the depth   | needed to docum        | nent the                 | indicator          | or confirm        | n the absence of         | indicators.)                            |
|------------------------|----------------------------------|----------------|------------------------|--------------------------|--------------------|-------------------|--------------------------|---|
| Depth                  | Matrix                           |                |                        | x Feature                |                    |                   |                          | •                                       |
| (inches)               | Color (moist)                    | %              | Color (moist)          | %                        | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                  | Remarks                                 |
| 0 - 20                 | 10YR 4/2                         | 90             | IOYR 5/6               | 5                        | <u> </u>           | <u>M</u>          | Silty Clay               |   |
| -                      |                                  |                |                        |                          |                    |                   |                          |   |
|                        |                                  |                |                        |                          |                    |                   |                          |   |
| l —                    |                                  |                |                        |                          |                    |                   |                          |   |
| l ——                   |                                  |                |                        |                          |                    |                   |                          |   |
|                        |                                  |                |                        |                          |                    |                   |                          |   |
|                        |                                  |                |                        |                          |                    |                   |                          |   |
| -                      |                                  |                |                        |                          |                    |                   |                          |   |
| <sup>1</sup> Type: C=C | oncentration, D=Dep              | oletion. RM=F  | Reduced Matrix, MS     | S=Masked                 | d Sand Gr          | ains.             | <sup>2</sup> Location: P | L=Pore Lining, M=Matrix.                |
| Hydric Soil            |                                  | ,              | ,                      |                          |                    |                   |                          | Problematic Hydric Soils <sup>3</sup> : |
| Histosol               | (A1)                             |                | Sandy C                | Sleyed Ma                | atrix (S4)         |                   | Coast Pra                | irie Redox (A16)                        |
| Histic E               | oipedon (A2)                     |                | Sandy F                | Redox (S5                | 5)                 |                   | Dark Surfa               | ace (S7)                                |
| ı —                    | istic (A3)                       |                |                        | Matrix (S                | ,                  |                   |                          | anese Masses (F12)                      |
| 1 - ' "                | en Sulfide (A4)                  |                |                        |                          | neral (F1)         |                   |                          | low Dark Surface (TF12)                 |
|                        | d Layers (A5)                    |                |                        | Gleyed M                 |                    |                   | Other (Ex                | plain in Remarks)                       |
| _                      | ıck (A10)<br>d Below Dark Surfad | o (Δ11)        | ✓ Deplete              | d Matrix (<br>Dark Surfa | -                  |                   |                          |   |
| ı —                    | ark Surface (A12)                | æ (A11)        | _                      |                          | irface (F7         | )                 | 3Indicators of           | hydrophytic vegetation and              |
| _                      | Mucky Mineral (S1)               |                |                        | Depressio                | ,                  | ,                 |                          | drology must be present,                |
| 5 cm Mu                | ıcky Peat or Peat (S             | 3)             | _                      | ·                        | ` ′                |                   | •                        | turbed or problematic.                  |
| Restrictive            | Layer (if observed)              | :              |                        |                          |                    |                   |                          |   |
| Type:                  |                                  |                | _                      |                          |                    |                   |                          |   |
| Depth (in              | ches):                           |                |                        |                          |                    |                   | Hydric Soil Pre          | esent? Yes No                           |
| Remarks:               |                                  |                |                        |                          |                    |                   |                          |   |
| Llydria                | coil procent                     |                |                        |                          |                    |                   |                          |   |
| Hydric :               | soil present.                    |                |                        |                          |                    |                   |                          |   |
|                        |                                  |                |                        |                          |                    |                   |                          |   |
|                        |                                  |                |                        |                          |                    |                   |                          |   |
| <b>HYDROLO</b>         | GY                               |                |                        |                          |                    |                   |                          |   |
| Wetland Hy             | drology Indicators               | :              |                        |                          |                    |                   |                          |   |
| Primary India          | cators (minimum of               | one is require | d; check all that ap   | ply)                     |                    |                   | Secondary I              | ndicators (minimum of two required)     |
| Surface                | Water (A1)                       |                | Water-Stai             | ned Leav                 | es (B9)            |                   | Surface                  | Soil Cracks (B6)                        |
| High Wa                | ater Table (A2)                  |                | Aquatic Fa             | una (B13                 | )                  |                   | Drainag                  | ge Patterns (B10)                       |
| Saturation             | on (A3)                          |                | True Aqua              |                          |                    |                   | Dry-Sea                  | ason Water Table (C2)                   |
| Water M                | larks (B1)                       |                | Hydrogen               | Sulfide O                | dor (C1)           |                   | Crayfisl                 | n Burrows (C8)                          |
| Sedimer                | nt Deposits (B2)                 |                | Oxidized F             | Rhizosphe                | res on Liv         | ing Roots         | (C3) Saturat             | ion Visible on Aerial Imagery (C9)      |
| Drift De               | oosits (B3)                      |                | Presence               | of Reduce                | ed Iron (C         | 4)                | Stunted                  | or Stressed Plants (D1)                 |
| Algal Ma               | at or Crust (B4)                 |                | Recent Iro             | n Reducti                | on in Tille        | d Soils (C        | 6) 👱 Geomo               | rphic Position (D2)                     |
| Iron Dep               | oosits (B5)                      |                | Thin Muck              | Surface (                | (C7)               |                   | ✓ FAC-Ne                 | eutral Test (D5)                        |
| Inundati               | on Visible on Aerial             | Imagery (B7)   | Gauge or \             | Well Data                | (D9)               |                   |                          |   |
| Sparsely               | y Vegetated Concav               | e Surface (B8  | B) Other (Exp          | lain in Re               | emarks)            |                   |                          |   |
| Field Obser            |                                  |                | ,                      |                          |                    |                   |                          |   |
| Surface Wat            |                                  |                | Depth (inc             |                          |                    |                   |                          |   |
| Water Table            | Present?                         | 'es No         | Depth (inc             | ches):                   |                    | _                 |                          |   |
| Saturation P           | resent?                          | es No          | Depth (inc             | ches):                   |                    | Wetl              | and Hydrology P          | resent? Yes No                          |
| (includes cap          |                                  | aguag mon      | itaring wall parial    | shoton n                 | ovious inc         | nootiona          | if available:            |   |
| Describe Re            | corded Data (strean              | r gauge, mon   | itoring well, aerial p | oriotos, pi              | evious iris        | spections),       | ii avallable.            |   |
| Remarks:               |                                  |                |                        |                          |                    |                   |                          |   |
|                        | ا ما ا                           |                |                        |                          |                    |                   |                          |   |
| wetiand                | l hydrology                      | present.       |                        |                          |                    |                   |                          |   |
|                        |                                  |                |                        |                          |                    |                   |                          |   |
| 1                      |                                  |                |                        |                          |                    |                   |                          |   |

#### WETLAND DETERMINATION DATA FORM - Midwest Region

| Project/Site: AEP Fostoria to Lima   | C              | ity/Cou  | <sub>ınty:</sub> <u>Findlay</u> | /Hancock  | Sampling Date: 2022-07-02                              |
|--|----------------|----------|---------------------------------|---|--|
| Applicant/Owner: AEP   |                |          |                                 | State: Ohio                                       | Sampling Point: 1-AE UPL                               |
| Investigator(s): Beth Hollinden, Chris Davisson  | s              | Section, | Township, Ra                    | <sub>nge:</sub> OH01 T1S R9E S                    | N11  |
| Landform (hillslope, terrace, etc.): Depression  |                |          | Local relief                    | (concave, convex, none):                          | Concave  |
| Slope (%): 2 Lat: 40.967317  | L              | .ong: _  | 83.797858                       |   | Datum: WGS 84  |
| Soil Map Unit Name: McA  |                |          |                                 | NWI classific                                     | ation: N/A   |
| Are climatic / hydrologic conditions on the site typical for this  |                |          |                                 |   |  |
| Are Vegetation, Soil, or Hydrology signature.  | gnificantly di | isturbe  | d? Are "                        | 'Normal Circumstances" p                          | oresent? Yes No  |
| Are Vegetation, Soil, or Hydrology na  | aturally prob  | lematic  | c? (If ne                       | eded, explain any answe                           | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map s  | showing s      | samp     | ling point le                   | ocations, transects                               | , important features, etc.                             |
| Hydrophytic Vegetation Present? Yes No   | ,              |          |                                 |   |  |
| Hydric Soil Present? Yes No  |                |          | s the Sampled                   |   | 🗸  |
| Wetland Hydrology Present? Yes No  | ·              | , w      | vithin a Wetlar                 | nd? Yes   | No   |
| Remarks:   |                |          |                                 |   |  |
| Upland point for Wetland 1-AE.   |                |          |                                 |   |  |
| VEGETATION – Use scientific names of plants.   |                |          |                                 |   |  |
| Tree Stratum (Plot size: 30 ft r )   |                |          | ant Indicator                   | Dominance Test work                               | sheet:   |
| 1  |                |          | es? Status                      | Number of Dominant Sp<br>That Are OBL, FACW, of   |  |
| 2.   |                |          |                                 |   |  |
| 3  |                |          |                                 | Total Number of Domini<br>Species Across All Stra | _  |
| 4  |                |          |                                 | Percent of Dominant Sp                            | pecies   |
| 5  |                |          |                                 | That Are OBL, FACW, o                             |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )  | =              | = Total  | Cover                           | Prevalence Index worl                             | ksheet:  |
| 1  |                |          |                                 | Total % Cover of:                                 |  |
| 2  |                |          |                                 |   | x 1 = 0  |
| 3  |                |          |                                 | FACW species 70                                   |  |
| 4  |                |          |                                 |   | x 3 = 0<br>x 4 = 120                                   |
| 5  |                |          |                                 | UPL species 0                                     | $\times 4 = \frac{120}{0}$<br>$\times 5 = \frac{0}{0}$ |
| Herb Stratum (Plot size: 5 ft r )  | =              | - rotar  |                                 | Column Totals: 100                                | (A) 260 (B)  |
| 1. Phalaris arundinacea  | <u>55</u> .    |          | FACW                            |   | (-)  |
| 2. Cirsium arvense   | 30             |          | FACU                            |   | = B/A = <u>2.60</u>                                    |
| 3. Verbesina alternifolia  | <u>15</u> -    |          | FACW_                           | Hydrophytic Vegetatio                             |  |
| 4  |                |          |                                 | 1 - Rapid Test for F<br>2 - Dominance Tes         |  |
| 5  |                |          |                                 | 3 - Prevalence Inde                               |  |
| 6<br>7   |                |          |                                 | 4 - Morphological A                               | Adaptations <sup>1</sup> (Provide supporting           |
| 8.   |                |          |                                 |   | s or on a separate sheet)                              |
| 9  |                |          |                                 | Problematic Hydror                                | phytic Vegetation <sup>1</sup> (Explain)               |
| 10   |                |          |                                 | <sup>1</sup> Indicators of hydric soil            | l and wetland hydrology must                           |
| Woody Vine Stratum (Plot size: 30 ft r   | 100%=          | = Total  | Cover                           | be present, unless distu                          |  |
| 1  |                |          |                                 | Hydrophytic                                       |  |
| 2  |                |          |                                 | Vegetation<br>Present? Yes                        | s No   |
| Demonstration (Include whether the Include |                | = Total  | Cover                           | Tesent: Tes                                       | , 110  |
| Remarks: (Include photo numbers here or on a separate s  | neet.)         |          |                                 |   |  |
| Hydrophytic vegetation absent.   |                |          |                                 |   |  |
|  |                |          |                                 |   |  |

SOIL Sampling Point: 1-AE UPL

| Profile Desc  | ,,,p.,,,,,, (2000),,po  |   |  |  |   |                   |   |   |
|---|---|---|--|--|---|-------------------|---|---|
| Depth   | Matrix  |   | Redo   | x Feature  | s   |                   |   |   |
| (inches)  | Color (moist)   | %   | Color (moist)  | %  | _Type <sup>1</sup>  | _Loc <sup>2</sup> | Texture   | Remarks   |
| 0 - 20  | 10YR 4/2  | 100   |  |  |   |                   | Silty Clay  |   |
| -   |   |   |  |  |   |                   |   |   |
|   |   |   |  |  |   |                   |   |   |
|   |   |   |  |  |   |                   |   |   |
| l — -   |   |   |  |  |   |                   |   |   |
|   |   |   |  |  |   |                   |   |   |
|   |   |   |  |  |   |                   |   |   |
|   |   |   |  |  |   |                   |   |   |
| <sup>1</sup> Type: C=C  | oncentration, D=Dep   | oletion RM=Re   | duced Matrix M   | S=Masker   | Sand Gr   | aine              | <sup>2</sup> Location: Pl   | L=Pore Lining, M=Matrix.  |
| Hydric Soil   |   | Dietion, Itivi–Ite                                      | duced Matrix, M  | 0-Masket   | oand Or   | airis.            |   | Problematic Hydric Soils <sup>3</sup> :   |
| Histosol  |   |   | Sandy  | Gleyed Ma  | atrix (S4)  |                   |   | rie Redox (A16)   |
| ı —   | oipedon (A2)  |   |  | Redox (S5  |   |                   | Dark Surfa  |   |
| I —   | istic (A3)  |   |  | d Matrix (S  |   |                   |   | anese Masses (F12)  |
| Hydroge   | en Sulfide (A4)   |   | Loamy  | Mucky Mir  | neral (F1)  |                   | Very Shall  | ow Dark Surface (TF12)  |
| Stratified  | d Layers (A5)   |   | Loamy  | Gleyed Ma  | atrix (F2)  |                   | Other (Exp  | olain in Remarks)   |
| ı —   | ıck (A10)   |   |  | ed Matrix (  |   |                   |   |   |
|   | d Below Dark Surfac   | e (A11)   | _  | Dark Surfa   |   |                   | 3   |   |
| _   | ark Surface (A12)   |   |  | ed Dark Su   |   | )                 |   | nydrophytic vegetation and  |
|   | lucky Mineral (S1)<br>ucky Peat or Peat (S  | 3)  | Redox  | Depressio  | ns (Fo)   |                   | -   | drology must be present,<br>turbed or problematic.  |
|   | Layer (if observed)   |   |  |  |   |                   | unless dis  | dibed of problematic.   |
| l _   | Layer (ii observed)   |   |  |  |   |                   |   |   |
|   | ches):  |   | -  |  |   |                   | Hydric Soil Pre   | sent? Yes No  |
|   | Ciles)  |   |  |  |   |                   |   |   |
| Remarks:  |   |   |  |  |   |                   |   |   |
| Hydric  | soil absent.  |   |  |  |   |                   |   |   |
| 1 -   |   |   |  |  |   |                   |   |   |
|   |   |   |  |  |   |                   |   |   |
|   |   |   |  |  |   |                   |   |   |
| LIVERGLA  | OV  |   |  |  |   |                   |   |   |
| HYDROLO   |   |   |  |  |   |                   |   |   |
| Wetland Hy  | drology Indicators:   |   |  |  |   |                   |   |   |
| Wetland Hy  |   |   | check all that a   | pply)  |   |                   | Secondary I   | ndicators (minimum of two required)   |
| Wetland Hy  | drology Indicators:   |   |  | pply)<br>nined Leav  | es (B9)   |                   |   | ndicators (minimum of two required) Soil Cracks (B6)  |
| Wetland Hy Primary India Surface  | drology Indicators:<br>cators (minimum of c   |   |  | ined Leav  | , ,   |                   | Surface   |   |
| Wetland Hy Primary India Surface  | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)  |   | Water-Sta<br>Aquatic F   | ined Leav  | )   |                   | Surface   | Soil Cracks (B6)  |
| Wetland Hy Primary India Surface High Wa  | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)  |   | Water-Sta<br>Aquatic F   | ained Leav<br>auna (B13<br>atic Plants   | )<br>(B14)  |                   | Surface Drainag   | Soil Cracks (B6)<br>e Patterns (B10)  |
| Wetland Hy Primary India Surface High Wa Saturatia Water M  | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)   |   | Water-Sta Aquatic F True Aqua  | ained Leav<br>auna (B13<br>atic Plants   | )<br>(B14)<br>dor (C1)  | ing Roots         | Surface Drainag Dry-Sea Crayfish  | Soil Cracks (B6)<br>e Patterns (B10)<br>son Water Table (C2)  |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimen  | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>larks (B1)   |   | Water-Sta Aquatic F True Aqua  | nined Leav<br>auna (B13<br>atic Plants<br>Sulfide Oo<br>Rhizosphe  | )<br>(B14)<br>dor (C1)<br>res on Liv  | -                 | Surface Drainag Dry-Sea Crayfish (C3) Saturati                              | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8)   |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimei Drift Dej  | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>larks (B1)<br>nt Deposits (B2)   |   | Water-Sta Aquatic F True Aqua Hydrogen Oxidized  | nined Leav<br>auna (B13<br>atic Plants<br>Sulfide Oo<br>Rhizosphe<br>of Reduce   | )<br>(B14)<br>dor (C1)<br>res on Liv<br>ed Iron (C4                         | 4)                | Surface Drainag Dry-Sea Crayfish (C3) Saturati                              | Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9)  |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der  | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>larks (B1)<br>nt Deposits (B2)<br>posits (B3)  |   | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence   | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide Oo<br>Rhizosphe<br>of Reduce<br>on Reducti   | (B14)<br>(B14)<br>dor (C1)<br>res on Liv<br>ed Iron (C4<br>on in Tille      | 4)                | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi               | Soil Cracks (B6) e Patterns (B10) ason Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)  |
| Wetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma  | drology Indicators:<br>cators (minimum of of<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>larks (B1)<br>nt Deposits (B2)<br>posits (B3)<br>at or Crust (B4)   | one is required:  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Iru                              | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide Oo<br>Rhizosphe<br>of Reduce<br>on Reducti<br>& Surface (                                  | )<br>(B14)<br>dor (C1)<br>res on Liv<br>ed Iron (C4<br>on in Tilled<br>(C7) | 4)                | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi               | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) iphic Position (D2)                    |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der  | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5)  | one is required:  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Mucl                    | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide Oo<br>Rhizosphe<br>of Reduce<br>on Reducti<br>c Surface (<br>Well Data                     | (B14)<br>dor (C1)<br>res on Lived Iron (C4<br>on in Tiller<br>(C7)<br>(D9)  | 4)                | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi               | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) iphic Position (D2)                    |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der  | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavivations:  | Imagery (B7)<br>e Surface (B8)                          | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Mucl Gauge or Other (Ex | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide Oo<br>Rhizosphe<br>of Reduce<br>on Reducti<br>o Surface (<br>Well Data<br>plain in Re      | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tille (C7) (D9) emarks)   | 4)<br>d Soils (C6 | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi               | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) iphic Position (D2)                    |
| Wetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift Dep Algal Ma Iron Dep Inundati Sparsely   | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavivations:  | Imagery (B7)<br>e Surface (B8)                          | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Mucl                    | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide Oo<br>Rhizosphe<br>of Reduce<br>on Reducti<br>o Surface (<br>Well Data<br>plain in Re      | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tille (C7) (D9) emarks)   | 4)<br>d Soils (C6 | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi               | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) iphic Position (D2)                    |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely  | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavivations: er Present?  | Imagery (B7) e Surface (B8)                             | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Mucl Gauge or Other (Ex | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide Oo<br>Rhizosphe<br>of Reduce<br>on Reducti<br>o Surface (<br>Well Data<br>plain in Re      | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks)  | 4)<br>d Soils (Co | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomoi               | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) iphic Position (D2)                    |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat  | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavivations: er Present?  | Imagery (B7) e Surface (B8)  'es No .                   | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Iru Thin Muc Gauge or Other (Ex  | ained Leav auna (B13 atic Plants Sulfide Oo Rhizosphe of Reduce on Reducti o Surface ( Well Data plain in Re                                 | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks)  | 4)<br>d Soils (Co | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomon               | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) iphic Position (D2)                    |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca              | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavivations: er Present? Present? Yesent? Yesent?   | Imagery (B7) e Surface (B8)  'es No 'es No 'es No       | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Muci Gauge or Other (Ex | ained Leav auna (B13 atic Plants Sulfide Oo Rhizosphe of Reduce on Reducti o Surface ( Well Data plain in Re aches): aches): aches): aches): | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks)  | 4) d Soils (Ce    | Surface  Drainag  Dry-Sea  Crayfish  (C3) Saturati  Stunted  Geomon  FAC-Ne | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) riphic Position (D2) eutral Test (D5) |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca              | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavivations: er Present?  Present?  | Imagery (B7) e Surface (B8)  'es No 'es No 'es No       | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Muci Gauge or Other (Ex | ained Leav auna (B13 atic Plants Sulfide Oo Rhizosphe of Reduce on Reducti o Surface ( Well Data plain in Re aches): aches): aches): aches): | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks)  | 4) d Soils (Ce    | Surface  Drainag  Dry-Sea  Crayfish  (C3) Saturati  Stunted  Geomon  FAC-Ne | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) riphic Position (D2) eutral Test (D5) |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes car Describe Re | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavivations: er Present? Present? Yesent? Yesent?   | Imagery (B7) e Surface (B8)  'es No 'es No 'es No       | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Muci Gauge or Other (Ex | ained Leav auna (B13 atic Plants Sulfide Oo Rhizosphe of Reduce on Reducti o Surface ( Well Data plain in Re aches): aches): aches): aches): | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks)  | 4) d Soils (Ce    | Surface  Drainag  Dry-Sea  Crayfish  (C3) Saturati  Stunted  Geomon  FAC-Ne | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) riphic Position (D2) eutral Test (D5) |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca              | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavivations: er Present? Present? Yesent? Yesent?   | Imagery (B7) e Surface (B8)  'es No 'es No 'es No       | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Muci Gauge or Other (Ex | ained Leav auna (B13 atic Plants Sulfide Oo Rhizosphe of Reduce on Reducti o Surface ( Well Data plain in Re aches): aches): aches): aches): | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks)  | 4) d Soils (Ce    | Surface  Drainag  Dry-Sea  Crayfish  (C3) Saturati  Stunted  Geomon  FAC-Ne | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) riphic Position (D2) eutral Test (D5) |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes car Describe Re | drology Indicators: cators (minimum of of of water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavivations: er Present? Present? Yesent? | Imagery (B7) e Surface (B8)  'es No . 'es No . 'es No . | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Muci Gauge or Other (Ex | ained Leav auna (B13 atic Plants Sulfide Oo Rhizosphe of Reduce on Reducti o Surface ( Well Data plain in Re aches): aches): aches): aches): | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks)  | 4) d Soils (Ce    | Surface  Drainag  Dry-Sea  Crayfish  (C3) Saturati  Stunted  Geomon  FAC-Ne | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) riphic Position (D2) eutral Test (D5) |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes car Describe Re | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavivations: er Present? Present? Yesent? Yesent?   | Imagery (B7) e Surface (B8)  'es No . 'es No . 'es No . | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Muci Gauge or Other (Ex | ained Leav auna (B13 atic Plants Sulfide Oo Rhizosphe of Reduce on Reducti o Surface ( Well Data plain in Re aches): aches): aches): aches): | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks)  | 4) d Soils (Ce    | Surface  Drainag  Dry-Sea  Crayfish  (C3) Saturati  Stunted  Geomon  FAC-Ne | Soil Cracks (B6) e Patterns (B10) ison Water Table (C2) i Burrows (C8) ion Visible on Aerial Imagery (C9) or Stressed Plants (D1) riphic Position (D2) eutral Test (D5) |

#### WETLAND DETERMINATION DATA FORM – Midwest Region

| Project/Site: AEP Fostoria to Lima                                    | ity/County          | : Findlay/                                  | Hancock             | Sampling Date: 2022-07-02                       |  |
|---|---------------------|---|---------------------|---|--|
| Applicant/Owner: AEP  | int/Owner: AEP      |   |                     |   |  |
| Investigator(s): Beth Hollinden, Chris Davisson                       | S                   | Section, Township, Range: OH01 T1S R9E SN11 |                     |   |  |
| Landform (hillslope, terrace, etc.): Depression                       |                     |   | Local relief (      | (concave, convex, none):                        | Concave  |
| Slope (%): 2 Lat: 40.967741   | Lo                  | ong: <u>-83</u>                             | .797232             |   | Datum: WGS 84  |
| Soil Map Unit Name: McA   |                     |   |                     | NWI classific                                   | ation: R2UBH   |
| Are climatic / hydrologic conditions on the site typical for this tir |                     |   |                     |   |  |
| Are Vegetation, Soil, or Hydrology sign                               | nificantly di       | sturbed?                                    | Are "I              | Normal Circumstances" p                         | present? Yes No  |
| Are Vegetation, Soil, or Hydrology natu                               | urally probl        | lematic?                                    | (If ne              | eded, explain any answe                         | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map sh                              | nowing s            | samplin                                     | g point lo          | ocations, transects                             | , important features, etc.   |
| Hydrophytic Vegetation Present? Yes No _                              |                     |   |                     | _   |  |
| Hydric Soil Present? Yes No _   |                     |   | e Sampled           |   | No   |
| Wetland Hydrology Present? Yes No _ Remarks:                          |                     | with  | in a Wetlan         | dr tes  | NO   |
|   |                     |   |                     |   |  |
| PEM. ORAM score of 38.  |                     |   |                     |   |  |
| VEGETATION – Use scientific names of plants.                          |                     |   |                     |   |  |
|   | Absolute<br>6 Cover |   | Indicator<br>Status | Dominance Test work                             |  |
| 1   |                     |   | <u> </u>            | Number of Dominant Sp<br>That Are OBL, FACW, of |  |
| 2.  |                     |   |                     | Total Number of Domin                           | ant  |
| 3   |                     |   |                     | Species Across All Stra                         | _  |
| 4   |                     |   |                     | Percent of Dominant Sp                          | pecies   |
| 5   |                     |   |                     | That Are OBL, FACW, o                           | or FAC: 100 (A/B)  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                           | =                   | Total Cov                                   | /ei                 | Prevalence Index wor                            | ksheet:  |
| 1. Salix nigra 1  | 10                  |   | OBL                 | Total % Cover of:                               |  |
| 2   |                     |   |                     |   | x 1 = 10   |
| 3   |                     |   |                     | FACW species 100                                | x = 200<br>x = 3 = 0   |
| 4   |                     |   |                     | · <del>.</del>                                  | $\begin{array}{c} x 3 = 0 \\ x 4 = 0 \end{array}$                      |
| 5   |                     | Total Cov                                   |                     |   | x 5 = 0  |
| Herb Stratum (Plot size: 5 ft r )                                     |                     |   |                     | Column Totals: 110                              | (A) 210 (B)  |
| I.  | 100                 |   | FACW                | Description of Index                            | = B/A = <u>1.91</u>  |
| 2   |                     |   |                     | Hydrophytic Vegetation                          |  |
| 3   |                     |   |                     | ✓ 1 - Rapid Test for H                          |  |
| 5.  |                     |   |                     | 2 - Dominance Tes                               | t is >50%  |
| 6   |                     |   |                     | ✓ 3 - Prevalence Inde                           | ex is ≤3.0 <sup>1</sup>  |
| 7   |                     |   |                     | 4 - Morphological A                             | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |
| 8   |                     |   |                     |   | phytic Vegetation <sup>1</sup> (Explain)                               |
| 9   |                     |   |                     |   | (=:::::::::::::::::::::::::::::::::::::                                |
| 10  | 100% =              | Total Cox                                   |                     |   | I and wetland hydrology must   |
| Woody Vine Stratum (Plot size: 30 ft r )                              |                     | Total Cov                                   | /ei                 | be present, unless distu                        | irbed or problematic.  |
| 1   |                     |   |                     | Hydrophytic                                     |  |
| 2   |                     | Total Cov                                   |                     | Vegetation<br>Present? Yes                      | s No   |
| Remarks: (Include photo numbers here or on a separate she             |                     | TOTAL COV                                   | /61                 |   |  |
| Hydrophytic vegetation present.                                       | ,                   |   |                     |   |  |
| liyaropiiyao vegetadon present.                                       |                     |   |                     |   |  |

SOIL Sampling Point: 1-AF

| Profile Desc   | ription: (Describe  | to the depth   | needed to docum        | nent the   | indicator                   | or confirm              | n the absence of i                                    | indicators.)  |  |  |
|--|---|----------------|------------------------|------------|-----------------------------|-------------------------|---|---|--|--|
| Profile Description: (Describe to the depth needed to document the indicator or confirm  Depth Matrix Redox Features |   |                |                        |            |                             |                         | •   |   |  |  |
| (inches)   | Color (moist)   | %              | Color (moist)          | %          | _Type <sup>1</sup>          | _Loc <sup>2</sup>       | Texture   | Remarks   |  |  |
| 0 - 20   | 10YR 4/2  | 95             | 10YR 5/6               | 5          | <u>C</u>                    | <u>M</u>                | Silty Clay  |   |  |  |
| -  |   |                |                        |            |                             |                         |   |   |  |  |
|  |   |                |                        |            |                             |                         |   |   |  |  |
|  |   |                |                        |            | - ——                        |                         |   |   |  |  |
| <u> </u>   |   |                |                        |            |                             |                         |   |   |  |  |
|  |   |                |                        |            |                             |                         |   |   |  |  |
| -  |   |                |                        |            |                             |                         |   |   |  |  |
|  |   |                |                        |            |                             |                         |   | _   |  |  |
| 1Type: C=C   | oncentration, D=Dep   | olotion PM-E   | Poducod Matrix MS      | S-Masko    | d Sand Gr                   | oine                    | <sup>2</sup> I continu                                | L=Pore Lining, M=Matrix.                            |  |  |
| Hydric Soil  |   | Delion, Kivi-r | reduced Matrix, Mc     | 3-Waske    | u Sanu Gi                   | all 15.                 |   | Problematic Hydric Soils <sup>3</sup> :             |  |  |
| *  |   |                | Sandy (                | Sleved M   | atriv (SA)                  |                         |   | irie Redox (A16)                                    |  |  |
| I —  | Histosol (A1) Sandy Gleyed Matrix (S4)  Histic Epipedon (A2) Sandy Redox (S5)   |                |                        |            |                             | Dark Surfa              | , ,   |   |  |  |
| I —  | istic (A3)  |                |                        | Matrix (   |                             |                         | Iron-Manganese Masses (F12)                           |   |  |  |
| Hydroge  | en Sulfide (A4)   |                | Loamy I                | Mucky Mi   | neral (F1)                  |                         | Very Shallow Dark Surface (TF12)                      |   |  |  |
| Stratified   | d Layers (A5)   |                | Loamy (                | Gleyed M   | atrix (F2)                  |                         | Other (Explain in Remarks)                            |   |  |  |
| _  | ıck (A10)   |                | Deplete                |            | -                           |                         |   |   |  |  |
| ı —  | d Below Dark Surfac   | e (A11)        | _                      | Dark Surfa |                             |                         | 3   |   |  |  |
| _  | ark Surface (A12)   |                |                        |            | urface (F7                  | )                       | <sup>3</sup> Indicators of hydrophytic vegetation and |   |  |  |
| ı —  | /lucky Mineral (S1)<br>ucky Peat or Peat (S                                     | 2)             | Redox L                | Depressio  | ns (F8)                     |                         | ,   | rdrology must be present,<br>turbed or problematic. |  |  |
|  | Layer (if observed)   |                |                        |            |                             |                         | uniess dis  | turbed of problematic.                              |  |  |
|  | Layer (ii observed)   |                |                        |            |                             |                         |   |   |  |  |
|  |   |                | _                      |            |                             |                         | Hydric Soil Pre                                       | esent? Yes No                                       |  |  |
|  | ches):  |                | _                      |            |                             |                         |   |   |  |  |
| Remarks:   |   |                |                        |            |                             |                         |   |   |  |  |
| Hydric   | soil present.   |                |                        |            |                             |                         |   |   |  |  |
|  | -   |                |                        |            |                             |                         |   |   |  |  |
|  |   |                |                        |            |                             |                         |   |   |  |  |
| HADBOLO  | CV  |                |                        |            |                             |                         |   |   |  |  |
| HYDROLO  |   |                |                        |            |                             |                         |   |   |  |  |
| 1  | drology Indicators  |                |                        |            |                             |                         | 0   |   |  |  |
|  | cators (minimum of o  | one is require |                        |            |                             |                         |   | ndicators (minimum of two required)                 |  |  |
| _  | Water (A1)  |                | Water-Stai             |            | ` '                         |                         |   | Soil Cracks (B6)                                    |  |  |
| "  | High Water Table (A2) Aquatic Fauna (B13)                                       |                |                        |            |                             | Drainage Patterns (B10) |   |   |  |  |
| Saturation (A3) True Aquatic Plants (B14)  |   |                |                        |            | Dry-Season Water Table (C2) |                         |   |   |  |  |
| Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)  |   |                |                        |            |                             |                         |   |   |  |  |
| Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)          |   |                |                        |            |                             |                         |   |   |  |  |
| Drift Deposits (B3) Presence of Reduced Iron (C4)  |   |                |                        |            |                             |                         |   | or Stressed Plants (D1)                             |  |  |
| Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)                          |   |                |                        |            |                             |                         |   |   |  |  |
| I — :  | Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5)                 |                |                        |            |                             |                         |   |   |  |  |
| ı —  | on Visible on Aerial  |                |                        |            |                             |                         |   |   |  |  |
|  | y Vegetated Concav  | e Surface (B   | B) Other (Exp          | lain in Re | emarks)                     |                         |   |   |  |  |
| Field Obser  |   |                | <b>v</b>               |            |                             |                         |   |   |  |  |
| Surface Wat  |   |                | Depth (inc             |            |                             |                         |   |   |  |  |
| Water Table  |   |                |                        |            |                             |                         |   |   |  |  |
|  | Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No |                |                        |            |                             |                         |   | resent? Yes No                                      |  |  |
|  | corded Data (strean   | n gauge, mon   | itoring well, aerial p | ohotos, pi | revious ins                 | pections),              | if available:   |   |  |  |
|  | •   |                |                        |            |                             |                         |   |   |  |  |
| Remarks:   |   |                |                        |            |                             |                         |   |   |  |  |
| Motions  | l bydrology   | nrecent        |                        |            |                             |                         |   |   |  |  |
| vvetiant   | l hydrology   | hi eseiil.     | •                      |            |                             |                         |   |   |  |  |
|  |   |                |                        |            |                             |                         |   |   |  |  |
| I  |   |                |                        |            |                             |                         |   |   |  |  |

#### WETLAND DETERMINATION DATA FORM – Midwest Region

| Project/Site: AEP Fostoria to Lima  | Findlay/                        | Hancock       | Sampling Date: 2022-07-02 |                |   |   |  |  |
|---|---------------------------------|---------------|---------------------------|----------------|---|---|--|--|
| Applicant/Owner: AEP  |                                 |               |                           |                | State: Ohio   | Sampling Point: 1-AF UPL  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson   |                                 |               |                           |                |   |   |  |  |
|   |                                 |               |                           | ,              | (concave, convex, none):                            | Convex  |  |  |
| Slope (%): 2 Lat: 40.96794  |                                 | Long:         | -83.                      | .797325        |   | Datum: WGS 84   |  |  |
| Soil Map Unit Name: McA   |                                 |               |                           |                | NWI classific                                       | ation: N/A  |  |  |
| Are climatic / hydrologic conditions on the site typical for the  | is time of yea                  | ar? Ye        | es                        | No _           | (If no, explain in Re                               | emarks.)  |  |  |
| Are Vegetation, Soil, or Hydrology  | significantly                   | disturt       | oed?                      | Are "I         | Normal Circumstances" p                             | resent? Yes No  |  |  |
| Are Vegetation, Soil, or Hydrology  | naturally pro                   | blema         | tic?                      | (If ne         | eded, explain any answer                            | rs in Remarks.)   |  |  |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. |                                 |               |                           |                |   |   |  |  |
| Hydrophytic Vegetation Present? Yes   | No                              |               |                           |                |   |   |  |  |
| Hydric Soil Present? Yes  | No                              |               | ls th                     | e Sampled      |   | _   |  |  |
| Wetland Hydrology Present? Yes  | No                              |               | withi                     | in a Wetlan    | nd? Yes   | No  |  |  |
| Remarks:  |                                 |               |                           |                |   |   |  |  |
| Upland point for Wetland 1-AF.  |                                 |               |                           |                |   |   |  |  |
| \   |                                 |               |                           |                |   |   |  |  |
| VEGETATION – Use scientific names of plants   |                                 | -             |                           | I all a at a a |   | -14   |  |  |
| Tree Stratum (Plot size: 30 ft r )  | Absolute<br>% Cover             |               |                           | Indicator      | Dominance Test works                                |   |  |  |
| 1. Celtis occidentalis  | 10                              | <u> </u>      |                           | FAC            | Number of Dominant Sp<br>That Are OBL, FACW, of     |   |  |  |
| 2 Fraxinus pennsylvanica  | 10                              |               | ,                         | FACW           |   | , ,,  |  |  |
| 3 Platanus occidentalis   | 10                              |               | ,                         | FACW           | Total Number of Domina<br>Species Across All Strate |   |  |  |
| 4.  |                                 |               |                           |                |   |   |  |  |
| 5   |                                 |               |                           |                | Percent of Dominant Sp<br>That Are OBL, FACW, of    |   |  |  |
|   | 0.007                           | = Tota        | al Cov                    | er             |   | (,  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )  1. Lonicera japonica   | 20                              |               | ,                         | FACU           | Prevalence Index work                               |   |  |  |
|   |                                 |               |                           | 1400           | Total % Cover of:  OBL species  0                   | $\frac{\text{Multiply by:}}{\text{x 1 = } 0}$                         |  |  |
| 2   |                                 |               |                           |                |   | $\times 1 = \frac{1}{40}$   |  |  |
| 3   |                                 |               |                           |                | FAC species 60                                      | x 3 = 180   |  |  |
| 4   |                                 |               |                           |                | FACU species 30                                     | $\times 4 = 120$  |  |  |
| 5   | 20%                             | - Tota        | al Cov                    |                | UPL species 0                                       | x 5 = 0   |  |  |
| Herb Stratum (Plot size: 5 ft r )   | 2070                            | = Total Cover |                           |                | Column Totals: 110                                  | (A) 340 (B)   |  |  |
| 1. Geum canadense   | _ 30                            |               | _                         | FAC            | Column Totals.                                      | (//(0)  |  |  |
| 2. Toxicodendron radicans   | _ 20                            |               | _                         | FAC            | Prevalence Index                                    |   |  |  |
| 3. Viola canadensis   | _ 10                            |               |                           | FACU_          | Hydrophytic Vegetation                              |   |  |  |
| 4   |                                 |               |                           |                | 1 - Rapid Test for H                                |   |  |  |
| 5   |                                 |               |                           |                | 2 - Dominance Tes                                   |   |  |  |
| 6   |                                 |               |                           |                | 3 - Prevalence Inde                                 |   |  |  |
| 7   |                                 |               |                           |                | 4 - Morphological A                                 | daptations <sup>1</sup> (Provide supporting s or on a separate sheet) |  |  |
| 8   |                                 |               |                           |                | I   | phytic Vegetation <sup>1</sup> (Explain)                              |  |  |
| 9   |                                 |               |                           |                | _   |   |  |  |
| 10  | 000/                            |               |                           |                |   | and wetland hydrology must  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r ) 60% = Total Cover  |                                 |               |                           | er             | be present, unless disturbed or problematic.        |   |  |  |
| 1   |                                 |               |                           |                | Hydrophytic   |   |  |  |
| 2   |                                 |               |                           |                | Vegetation  | <b>v</b>  |  |  |
|   |                                 | = Tota        | al Cov                    | er             | Present? Yes  | s No  |  |  |
| Remarks: (Include photo numbers here or on a separate   | sheet.)                         |               |                           |                |   |   |  |  |
| Hydrophytic vegetation present.   | Hydrophytic vegetation present. |               |                           |                |   |   |  |  |
|   |                                 |               |                           |                |   |   |  |  |

SOIL Sampling Point: 1-AF UPL

|  |   |   |  |  |  | 0. 00             | n the absence of i   | idicators.   |
|--|---|---|--|--|--|-------------------|--|--|
| Depth  | Matrix  |   | Redo   | ox Feature   |  |                   |  |  |
| (inches)   | Color (moist)   | %   | Color (moist)  | %  | Type <sup>1</sup>  | Loc <sup>2</sup>  |  | Remarks  |
| 0 - 10   | 10YR 4/3  | _ 100   |  |  |  |                   | Silty Clay   |  |
| -  |   |   |  |  |  |                   |  |  |
|  |   |   |  |  |  |                   |  |  |
|  |   |   |  |  |  |                   |  |  |
| l — -  |   |   |  |  |  |                   |  |  |
|  |   |   |  |  |  |                   |  |  |
|  |   |   |  |  |  |                   |  |  |
| -  |   |   |  |  |  |                   |  |  |
| ¹Type: C=C   | oncentration, D=Dep   | oletion RM=Re                                     | duced Matrix M   | S=Masker   | Sand Gr  | aine              | 2l ocation: Pl   | =Pore Lining, M=Matrix.  |
| Hydric Soil  |   | Dietion, Rivi–Re                                  | duced Matrix, M  | O-Wasket   | Janu Gr  | allis.            |  | Problematic Hydric Soils <sup>3</sup> :  |
| Histosol   |   |   | Sandy  | Gleved Ma  | atrix (S4)   |                   |  | rie Redox (A16)  |
| ı —  | Histosol (A1) Sandy Gleyed Matrix (S4)<br>Histic Epipedon (A2) Sandy Redox (S5)   |   |  |  |  | Dark Surfa        |  |  |
| ı —  | istic (A3)  |   |  | d Matrix (S  |  |                   |  | anese Masses (F12)   |
| Hydroge  | en Sulfide (A4)   |   | Loamy  | Mucky Mir  | neral (F1)   |                   | Very Shallo  | ow Dark Surface (TF12)   |
| Stratified   | d Layers (A5)   |   | Loamy  | Gleyed Ma  | atrix (F2)   |                   | Other (Exp   | lain in Remarks)   |
| _  | ıck (A10)   |   |  | ed Matrix (  |  |                   |  |  |
| ı —  | d Below Dark Surfac   | e (A11)   | _  | Dark Surfa   |  |                   | 3  |  |
| _  | ark Surface (A12)   |   |  | ed Dark Su   |  | )                 |  | hydrophytic vegetation and   |
|  | flucky Mineral (S1)<br>ucky Peat or Peat (S   | 3)  | Redox  | Depressio  | ns (F8)  |                   | -  | drology must be present,<br>urbed or problematic.  |
|  | Layer (if observed)   |   |  |  |  |                   | unless dist  | urbed of problematic.  |
| Type: Ro   |   |   |  |  |  |                   |  |  |
|  | ches): 10   |   | _  |  |  |                   | Hydric Soil Pre  | sent? Yes No   |
| Remarks:   | cries). <u>10</u>   |   |  |  |  |                   |  |  |
|  |   |   |  |  |  |                   |  |  |
| Hydric s   | soil absent.  |   |  |  |  |                   |  |  |
| -  |   |   |  |  |  |                   |  |  |
|  |   |   |  |  |  |                   |  |  |
|  |   |   |  |  |  |                   |  |  |
|  |   |   |  |  |  |                   |  |  |
| HYDROLO  |   |   |  |  |  |                   |  |  |
| Wetland Hy   | drology Indicators:   |   |  |  |  |                   |  |  |
| Wetland Hy   |   |   | check all that a   | pply)  |  |                   | Secondary In   | ndicators (minimum of two required)  |
| Wetland Hyd  | drology Indicators:   |   |  | pply)<br>nined Leav  | es (B9)  |                   |  | ndicators (minimum of two required) Soil Cracks (B6)   |
| Wetland Hyder Primary Indice   | drology Indicators:<br>cators (minimum of c   |   | Water-Sta  |  | , ,  |                   | Surface  |  |
| Wetland Hyder Primary Indice   | drology Indicators:<br>cators (minimum of c<br>Water (A1)<br>ater Table (A2)  |   | Water-Sta<br>Aquatic F   | ained Leav   | )  |                   | Surface  | Soil Cracks (B6)   |
| Wetland Hydelic Primary India Surface High Water Mater | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>larks (B1)   |   | Water-Sta<br>Aquatic F   | ained Leav<br>auna (B13<br>atic Plants   | )<br>(B14)   |                   | Surface Drainage Dry-Sea   | Soil Cracks (B6)<br>e Patterns (B10)   |
| Wetland Hydelic Primary India Surface High Water Mater | drology Indicators:<br>cators (minimum of c<br>Water (A1)<br>ater Table (A2)<br>on (A3)   |   | Water-State Aquatic F True Aquatic F Hydrogen Oxidized   | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe   | )<br>(B14)<br>dor (C1)<br>res on Liv                                       | -                 | Surface Drainage Dry-Sea Crayfish (C3) Saturation                      | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)  |
| Wetland Hydelicon Primary India Surface High Wa Saturation Water M Sedimen   | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>larks (B1)   |   | Water-State Aquatic F True Aquatic F Hydrogen Oxidized   | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O  | )<br>(B14)<br>dor (C1)<br>res on Liv                                       | -                 | Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted               | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)                                    |
| Wetland Hydeling Primary India Surface High Water Mater Mate | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>larks (B1)<br>nt Deposits (B2)<br>posits (B3)<br>at or Crust (B4)  |   | Water-State Aquatic F True Aquatic F Hydrogen Oxidized   | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce  | )<br>(B14)<br>dor (C1)<br>res on Liv<br>ed Iron (C4                        | 4)                | Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor       | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydeling Primary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep   | drology Indicators:<br>cators (minimum of of<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>larks (B1)<br>nt Deposits (B2)<br>posits (B3)<br>at or Crust (B4)   | one is required:                                  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence   | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti  | (B14)<br>(B14)<br>dor (C1)<br>res on Liv<br>ed Iron (C4<br>on in Tille     | 4)                | Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor       | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)                                    |
| Wetland Hydelicon Primary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Inundation   | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>larks (B1)<br>nt Deposits (B2)<br>cosits (B3)<br>at or Crust (B4)<br>posits (B5)<br>on Visible on Aerial   | one is required:                                  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Mucl                    | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti<br>k Surface (<br>Well Data  | (B14)<br>dor (C1)<br>res on Lived Iron (C4<br>on in Tiller<br>(C7)<br>(D9) | 4)                | Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor       | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydelicon Primary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Inundation   | drology Indicators:<br>cators (minimum of of<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>larks (B1)<br>nt Deposits (B2)<br>posits (B3)<br>at or Crust (B4)   | one is required:                                  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Mucl                    | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti<br>k Surface (<br>Well Data  | (B14)<br>dor (C1)<br>res on Lived Iron (C4<br>on in Tiller<br>(C7)<br>(D9) | 4)                | Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor       | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydelicon Primary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Inundation   | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial by Vegetated Concavi  | Imagery (B7)<br>e Surface (B8)                    | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Mucl Gauge or Other (Ex | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti<br>k Surface (<br>Well Data<br>plain in Re   | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tille (C7) (D9) emarks)  | 4)<br>d Soils (C6 | Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor       | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydelicon Primary India Surface High Water Mage Sedimer Drift Dep Algal Male Iron Dep Inundati Sparsely  | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concave vations: er Present?   | Imagery (B7) e Surface (B8)                       | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Iru Thin Muc Gauge or Other (Ex  | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti<br>k Surface (<br>Well Data<br>plain in Re   | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks) | 4)<br>d Soils (Co | Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor       | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydelian Primary India Surface High Water Mager Mater Mate | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concave vations: er Present?   | Imagery (B7) e Surface (B8)                       | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira Thin Mucl Gauge or Other (Ex | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti<br>k Surface (<br>Well Data<br>plain in Re   | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks) | 4)<br>d Soils (Co | Surface Drainage Dry-Sea Crayfish (C3) Saturation Stunted Geomor       | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydelian Primary India Surface High Water Mage Sedimer Sedimer Drift Dep Algal Mage Iron Dep Inundati Sparsely Field Obser Surface Water   | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavity vations: er Present?  Y  | Imagery (B7) e Surface (B8)  'es No 'es No        | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Iru Thin Muc Gauge or Other (Ex  | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks) | 4)<br>d Soils (Co | Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydelian Primary India Surface High Water Mage Sedimer Drift Deg Algal Mage Iron Deg Inundati Sparsely Field Obser Surface Water Water Table Saturation Perincludes cap  | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavi vations: er Present? Present? Y resent? Y resent? Y  | Imagery (B7) e Surface (B8)  'es No 'es No 'es No | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks) | 4) d Soils (Ce    | Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Wetland Hydelian Primary India Surface High Water Mage Sedimer Drift Deg Algal Mage Iron Deg Inundati Sparsely Field Obser Surface Water Water Table Saturation Perincludes cap  | drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concave vations: er Present?  Present?  Y resent?  | Imagery (B7) e Surface (B8)  'es No 'es No 'es No | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks) | 4) d Soils (Ce    | Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Wetland Hydelian Primary India Surface High Water Mager Mage | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavi vations: er Present? Present? Y resent? Y resent? Y  | Imagery (B7) e Surface (B8)  'es No 'es No 'es No | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks) | 4) d Soils (Ce    | Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Wetland Hydelian Primary India Surface High Water Mage Sedimer Drift Deg Algal Mage Iron Deg Inundati Sparsely Field Obser Surface Water Water Table Saturation Perincludes cap  | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavi vations: er Present? Present? Y resent? Y resent? Y  | Imagery (B7) e Surface (B8)  'es No 'es No 'es No | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks) | 4) d Soils (Ce    | Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Wetland Hyderimary India Surface High Water Mage Saturation Sedimer Drift Dep Algal Mage Iron Dep Inundation Sparsely Field Obser Surface Water Table Saturation Page Saturati | drology Indicators: cators (minimum of of water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavity vations: er Present? Present? Y resent? Y resent? Y resent? Y resent? Corded Data (stream | Imagery (B7) e Surface (B8) 'es No 'es No 'es No  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks) | 4) d Soils (Ce    | Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Wetland Hyderimary India Surface High Water Mage Saturation Sedimer Drift Dep Algal Mage Iron Dep Inundation Sparsely Field Obser Surface Water Table Saturation Page Saturati | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial of Vegetated Concavi vations: er Present? Present? Y resent? Y resent? Y  | Imagery (B7) e Surface (B8) 'es No 'es No 'es No  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9) emarks) | 4) d Soils (Ce    | Surface Drainage Dry-Sea Crayfish (C3) Saturatie Stunted Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |

| Project/Site: AEP Fostoria to Lima                                | c                   | City/Count  | y: Bluffton  | /Hancock   | Sampling Date: 2022-07-03  |
|---|---------------------|-------------|--------------|--|--|
| Applicant/Owner: AEP  |                     |             |              | State: Ohio  | Sampling Point: 1-AG   |
| Investigator(s): Beth Hollinden, Chris Davisson                   |                     | Section, To | ownship, Rar | nge: OH01 T1S R9E S  | N31  |
|   |                     |             |              | (concave, convex, none):   |  |
| Slope (%): 0 Lat: 40.916296                                       | ι                   | _ong:83     | 3.872988     |  | Datum: WGS 84  |
| Soil Map Unit Name: Blg1A1  |                     |             |              | NWI classifica   | ation: N/A   |
| Are climatic / hydrologic conditions on the site typical for this | time of yea         | r? Yes _    | ✓ No_        | (If no, explain in Re  | emarks.)   |
| Are Vegetation, Soil, or Hydrology signature.                     | gnificantly d       | listurbed?  | Are "        | Normal Circumstances" p  | resent? Yes No   |
| Are Vegetation, Soil, or Hydrology na                             | aturally prob       | olematic?   | (If ne       | eded, explain any answer   | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map s                           | howing              | samplii     | ng point lo  | ocations, transects,   | , important features, etc.   |
| Hydrophytic Vegetation Present? Yes No                            |                     |             |              | _  |  |
| Hydric Soil Present? Yes No                                       |                     |             | he Sampled   |  | N -  |
| Wetland Hydrology Present? Yes No                                 | <u> </u>            | Witi        | hin a Wetlan | id? Yes  | No   |
| Remarks:  |                     |             |              |  |  |
| PEM. ORAM score of 24.  |                     |             |              |  |  |
| <b>VEGETATION</b> – Use scientific names of plants.               |                     |             |              |  |  |
| Tree Stratum (Plot size: 30 ft r )                                | Absolute<br>% Cover |             | nt Indicator | Dominance Test works   |  |
| 1   |                     |             |              | Number of Dominant Sp<br>That Are OBL, FACW, o                     |  |
| 2   |                     |             |              | Total Number of Domina   | ant  |
| 3   |                     |             |              | Species Across All Strat   | •  |
| 4   |                     |             |              | Percent of Dominant Sp   |  |
| 5   |                     | - Total Co  |              | That Are OBL, FACW, o  | or FAC: 100 (A/B)  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                     | - Total Oc  | 3401         | Prevalence Index work  | sheet:   |
| 1   |                     |             |              | Total % Cover of:  |  |
| 2   |                     |             |              |  | x 1 = 45   |
| 3   |                     |             |              |  | $x = \frac{50}{x = 90}$  |
| 4   |                     |             |              | · —  | $\begin{array}{c} x 3 = \underline{00} \\ x 4 = \underline{0} \end{array}$ |
| 5   |                     | = Total Co  |              | UPL species 0  |  |
| Herb Stratum (Plot size: 5 ft r )                                 |                     | - Total Co  |              | Column Totals: 100   | (A) 185 (B)  |
| 1. Eleocharis palustris   | 30                  |             | OBL          |  |  |
| 2. Rumex crispus  | 30                  |             | FAC          | Prevalence Index   |  |
| 3. Echinochloa crus-galli   | 25<br>15            |             | FACW         | Hydrophytic Vegetatio  |  |
| 4. Carex lurida   |                     |             | OBL          | 1 - Rapid Test for H  ✓ 2 - Dominance Test                         |  |
| 5   |                     |             |              | 3 - Prevalence Inde  |  |
| 6   |                     |             |              |  | daptations <sup>1</sup> (Provide supporting                                |
| 7   |                     |             |              | data in Remarks  | s or on a separate sheet)  |
| 8<br>9  |                     |             |              | Problematic Hydrop   | ohytic Vegetation¹ (Explain)   |
| 10  |                     |             |              |  |  |
|   | 100% =              | = Total Co  | over         | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu | and wetland hydrology must   |
| Woody Vine Stratum (Plot size: 30 ft r )                          |                     |             |              | be present, unless dista   | Toda of problematic.   |
| 1   |                     |             |              | Hydrophytic  |  |
| 2   |                     | Total Co    |              | Vegetation<br>  Present? Yes                                       | s No   |
| Remarks: (Include photo numbers here or on a separate si          |                     | - Total Co  | over         | <u> </u>   |  |
|   | /                   |             |              |  |  |
| Hydrophytic vegetation present.                                   |                     |             |              |  |  |
|   |                     |             |              |  |  |

SOIL Sampling Point: 1-AG

| Profile Desc  | ription: (Describe               | to the dep  | th needed to docur       | nent the              | indicator          | or confirm        | the absence of i | ndicators.)   |
|---------------|----------------------------------|-------------|--------------------------|-----------------------|--------------------|-------------------|------------------|---|
| Depth         | Matrix                           |             |                          | x Feature             |                    |                   |                  | ,   |
| (inches)      | Color (moist)                    | %           | Color (moist)            | %                     | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture          | Remarks   |
| 0 - 4         | 10YR 4/2                         | 95          | 10YR 5/6                 | 5                     | <u> </u>           | PL / M            | Sandy Clay Loam  |   |
| 4 - 20        | 10YR 5/2                         | 60          | 10YR 5/6                 | 20                    | <u> </u>           | <u>M</u>          | Sandy Clay Loam  |   |
| 4 - 20        | 10YR 5/2                         | 60          | 10YR 6/3                 | 10                    | С                  | М                 | Sandy Clay Loam  |   |
| 4 - 20        | 10YR 5/2                         | 60          | 10YR 6/1                 | 10                    |                    | M                 | Sandy Clay Loam  |   |
|               | •                                |             | •                        |                       |                    |                   |                  |   |
|               |                                  |             |                          |                       |                    |                   |                  |   |
|               |                                  |             |                          |                       |                    |                   |                  |   |
| 17            |                                  |             |                          |                       |                    |                   | 21               | La Dana Lining Maddatain  |
| Hydric Soil   |                                  | etion, Rivi | =Reduced Matrix, MS      | 5=Maske               | d Sand Gr          | ains.             |                  | L=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> : |
| Histosol      |                                  |             | Sandy (                  | Sleved M              | atrix (S4)         |                   |                  | rie Redox (A16)   |
| I —           | oipedon (A2)                     |             |                          | Redox (S              |                    |                   | Dark Surfa       | , ,   |
| Black Hi      | stic (A3)                        |             | Stripped                 | Matrix (              | S6)                |                   | Iron-Mang        | anese Masses (F12)  |
| 1 — ' "       | en Sulfide (A4)                  |             |                          |                       | ineral (F1)        |                   | Very Shall       | ow Dark Surface (TF12)  |
| I —           | d Layers (A5)                    |             |                          | -                     | latrix (F2)        |                   | Other (Exp       | olain in Remarks)   |
| ı —           | ıck (A10)<br>d Below Dark Surfac | ~ (^11)     |                          | d Matrix<br>Dark Surf | ` '                |                   |                  |   |
| 1 —           | ark Surface (A12)                | e (ATT)     | _                        |                       | urface (F7         | )                 | 3Indicators of h | nydrophytic vegetation and  |
| I —           | Mucky Mineral (S1)               |             |                          | Depressio             |                    | ,                 |                  | drology must be present,  |
| 5 cm Mu       | icky Peat or Peat (S             | 3)          | _                        | •                     | ` ,                |                   | •                | turbed or problematic.  |
| Restrictive I | Layer (if observed):             | :           |                          |                       |                    |                   |                  |   |
| Type:         |                                  |             |                          |                       |                    |                   | Hydric Soil Pro  | esent? Yes No   |
| Depth (inc    | ches):                           |             |                          |                       |                    |                   | Hydric Soil Pre  | sentr res No  |
| Remarks:      |                                  |             |                          |                       |                    |                   |                  |   |
| Hydric        | soil present.                    |             |                          |                       |                    |                   |                  |   |
| Try dire s    | on present.                      |             |                          |                       |                    |                   |                  |   |
|               |                                  |             |                          |                       |                    |                   |                  |   |
|               |                                  |             |                          |                       |                    |                   |                  |   |
| HYDROLO       | GY                               |             |                          |                       |                    |                   |                  |   |
| Wetland Hyd   | drology Indicators:              |             |                          |                       |                    |                   |                  |   |
| Primary India | cators (minimum of c             | ne is requi | red; check all that ap   | ply)                  |                    |                   | Secondary I      | ndicators (minimum of two required)                               |
| Surface       | Water (A1)                       |             | Water-Sta                |                       | ` '                |                   | Surface          | Soil Cracks (B6)  |
| 1 —           | iter Table (A2)                  |             | Aquatic Fa               |                       |                    |                   |                  | e Patterns (B10)  |
| Saturation    | , ,                              |             | True Aqua                |                       | . ,                |                   |                  | ason Water Table (C2)   |
| ı —           | larks (B1)                       |             | Hydrogen                 |                       |                    |                   |                  | Burrows (C8)  |
|               | nt Deposits (B2)                 |             | ✓ Oxidized F             |                       |                    |                   |                  | on Visible on Aerial Imagery (C9)                                 |
| —             | oosits (B3)                      |             | Presence                 |                       | •                  | ,                 | _                | or Stressed Plants (D1)   |
|               | at or Crust (B4)<br>posits (B5)  |             | Recent Iro Thin Muck     |                       |                    | u Solis (Co       | . —              | rphic Position (D2)<br>eutral Test (D5)                           |
| I — ·         | on Visible on Aerial             | lmagery (B  | _                        |                       | ` '                |                   | <u> </u>         | atiai rest (50)   |
| I —           | / Vegetated Concave              |             | , <u> </u>               |                       |                    |                   |                  |   |
| Field Obser   |                                  | ,           |                          |                       | ,                  |                   |                  |   |
| Surface Water | er Present? Y                    | es          | No Depth (in             | ches):                |                    | _                 |                  |   |
| Water Table   |                                  |             | No Depth (in             |                       |                    |                   |                  |   |
| Saturation P  |                                  |             | No Depth (in             |                       |                    |                   | and Hydrology Pr | resent? Yes No  |
| (includes cap | oillary fringe)                  |             |                          |                       |                    |                   |                  |   |
| Describe Re   | corded Data (stream              | gauge, mo   | onitoring well, aerial p | onotos, p             | revious ins        | spections),       | if available:    |   |
| Remarks:      |                                  |             |                          |                       |                    |                   |                  |   |
|               |                                  |             | _                        |                       |                    |                   |                  |   |
| Wetland       | ا hydrology ا                    | oresen      | t.                       |                       |                    |                   |                  |   |
|               |                                  |             |                          |                       |                    |                   |                  |   |
| 1             |                                  |             |                          |                       |                    |                   |                  |   |

| Project/Site: AEP Fostoria to Lima                                | (            | City/Co                        | <sub>unty:</sub> <u>Blufftor</u> | n/Hancock  | Sampling Date: 2022-07-03                             |  |  |
|---|--------------|--------------------------------|----------------------------------|--|---|--|--|
| Applicant/Owner: AEP  |              |                                |                                  | State: Ohio  | Sampling Point: 1-AG UPL                              |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   | {            | Section                        | , Township, Ra                   | inge: OH01 T1S R9E S   | SN31  |  |  |
| Landform (hillslope, terrace, etc.): Flat                         |              |                                | Local relief                     | (concave, convex, none):   | None  |  |  |
| Slope (%): 0 Lat: 40.916209                                       | ι            | Long: -83.872928 Datum: WGS 84 |                                  |  |   |  |  |
| Soil Map Unit Name: Blg1A1  |              |                                |                                  | NWI classific  | ation: N/A  |  |  |
| Are climatic / hydrologic conditions on the site typical for this |              |                                |                                  |  |   |  |  |
| Are Vegetation, Soil, or Hydrology sig                            | nificantly o | disturbe                       | ed? Are                          | "Normal Circumstances" p   | present? Yes No                                       |  |  |
| Are Vegetation, Soil, or Hydrology na                             | turally prob | blemati                        | ic? (If ne                       | eeded, explain any answe   | rs in Remarks.)                                       |  |  |
| SUMMARY OF FINDINGS - Attach site map s                           | howing       | samp                           | oling point l                    | ocations, transects  | , important features, etc.                            |  |  |
| Hydrophytic Vegetation Present? Yes No                            |              |                                |                                  |  |   |  |  |
| Hydric Soil Present? Yes No                                       |              |                                | ls the Sampled                   |  |   |  |  |
| Wetland Hydrology Present? Yes No                                 |              |                                | within a Wetla                   | nd? Yes  | No  |  |  |
| Remarks:  |              |                                |                                  |  |   |  |  |
| Upland point for Wetland 1-AG.                                    |              |                                |                                  |  |   |  |  |
| <b>VEGETATION</b> – Use scientific names of plants.               |              |                                |                                  |  |   |  |  |
|   | Absolute     | Domii                          | nant Indicator                   | Dominance Test work  | sheet:  |  |  |
| Tree Stratum (Plot size: 30 ft r )                                |              |                                | es? Status                       | Number of Dominant Sp<br>That Are OBL, FACW, of                    |   |  |  |
| 2   |              |                                |                                  | Total Number of Domin  | ant   |  |  |
| 3   |              |                                |                                  | Species Across All Stra  | ta: <u>3</u> (B)                                      |  |  |
| 4   |              |                                |                                  | Percent of Dominant Sp   |   |  |  |
| 5   |              |                                | Cover                            | That Are OBL, FACW, o  | or FAC: <u>66.7</u> (A/B)                             |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |              | 10101                          | 00101                            | Prevalence Index wor   | ksheet:   |  |  |
| 1   |              |                                |                                  | Total % Cover of:  |   |  |  |
| 2   |              |                                |                                  |  | $x = \frac{5}{130}$                                   |  |  |
| 3   |              |                                |                                  | FACW species 65  |   |  |  |
| 4   |              |                                |                                  |  | x = 30<br>x = 40                                      |  |  |
| 5   |              |                                |                                  | UPL species 0  | x 4 = 00<br>x 5 = 0                                   |  |  |
| Herb Stratum (Plot size: 5 ft r )                                 |              | = rotai                        | Cover                            | Column Totals: 100   | (A) 245 (B)   |  |  |
| 1. Echinochloa crus-galli   | 30           |                                | FACW                             |  | (-)   |  |  |
| Phalaris arundinacea  | 20           |                                |                                  | Prevalence Index   | = B/A = <u>2.45</u>                                   |  |  |
| 3. Trifolium pratense   | 20           |                                |                                  | Hydrophytic Vegetation   |   |  |  |
| 4. Carex vulpinoidea  | 15           |                                | FACW                             | 1 - Rapid Test for H   |   |  |  |
| 5. Rumex crispus  | 10           |                                | <u>FAC</u>                       | ✓ 2 - Dominance Tes  |   |  |  |
| 6. Scirpus atrovirens   | 5            |                                | <u>OBL</u>                       | 3 - Prevalence Inde  | ex is ≤3.0°<br>Adaptations¹ (Provide supporting       |  |  |
| 7   |              |                                |                                  | data in Remarks  | s or on a separate sheet)                             |  |  |
| 8   |              |                                |                                  | Problematic Hydror   | phytic Vegetation <sup>1</sup> (Explain)              |  |  |
| 9 10.   |              |                                |                                  |  |   |  |  |
|   | 100%         | = Total                        | Cover                            | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu | l and wetland hydrology must<br>urbed or problematic. |  |  |
| 1   |              |                                |                                  | Hydrophytic  |   |  |  |
| 2   |              |                                |                                  | Vegetation   | <b>v</b>  |  |  |
|   |              | = Total                        | Cover                            | Present? Yes   | s No  |  |  |
| Remarks: (Include photo numbers here or on a separate sh          | neet.)       |                                |                                  |  |   |  |  |
| Hydrophytic vegetation present.                                   |              |                                |                                  |  |   |  |  |
|   |              |                                |                                  |  |   |  |  |

SOIL Sampling Point: 1-AG UPL

| Profile Desc  | ription: (Describe                       | to the depth i  | needed to docun         | nent the   | indicator              | or confirm        | n the absence                       | of indicators.)   |  |  |  |
|---|--|-----------------|-------------------------|------------|------------------------|-------------------|-------------------------------------|---|--|--|--|
| Depth   | Matrix                                   |                 |                         | x Feature  |                        |                   |                                     |   |  |  |  |
| (inches)  | Color (moist)                            |                 | Color (moist)           | %          | Type <sup>1</sup> _    | _Loc <sup>2</sup> | Texture                             | Remarks   |  |  |  |
| 0 - 10  | 10YR 6/3                                 | 90 10           | OYR 5/6                 | 10         | _ <u>C</u>             | <u>M</u>          | Silty Clay                          | Highly compacted  |  |  |  |
|   |  |                 |                         |            |                        |                   |                                     |   |  |  |  |
| -   |  |                 |                         |            |                        |                   |                                     |   |  |  |  |
|   |  |                 |                         |            |                        |                   |                                     |   |  |  |  |
|   |  |                 |                         |            |                        |                   |                                     |   |  |  |  |
|   |  |                 |                         |            |                        |                   |                                     |   |  |  |  |
| <u> </u>  |  |                 |                         |            |                        |                   |                                     |   |  |  |  |
|   |  |                 |                         |            | - ——                   |                   |                                     |   |  |  |  |
|   | oncentration, D=De                       | pletion, RM=Re  | educed Matrix, MS       | S=Masked   | d Sand Gr              | ains.             |                                     | : PL=Pore Lining, M=Matrix.                               |  |  |  |
| Hydric Soil   |  |                 | Conduc                  | Name of BA | -4-i (C.4)             |                   |                                     | for Problematic Hydric Soils <sup>3</sup> :               |  |  |  |
| Histosol (A1) Sandy Gleyed Matrix (S4)<br>Histic Epipedon (A2) Sandy Redox (S5) |  |                 |                         |            |                        | _                 | Prairie Redox (A16)<br>Surface (S7) |   |  |  |  |
| ı —   | stic (A3)                                |                 |                         | Matrix (S  |                        |                   |                                     | anganese Masses (F12)                                     |  |  |  |
| ı —   | en Sulfide (A4)                          |                 |                         |            | neral (F1)             |                   | _                                   | hallow Dark Surface (TF12)                                |  |  |  |
| Stratified  | d Layers (A5)                            |                 | Loamy (                 | Sleyed M   | atrix (F2)             |                   | Other                               | (Explain in Remarks)                                      |  |  |  |
| _   | ıck (A10)                                |                 |                         | d Matrix ( |                        |                   |                                     |   |  |  |  |
|   | d Below Dark Surfac<br>ark Surface (A12) | ce (A11)        | _                       | ark Surfa  |                        | `                 | 3Indicators                         | of hydronhytic vegetation and                             |  |  |  |
| _   | Mucky Mineral (S1)                       |                 |                         | epressio   | urface (F7<br>ons (F8) | )                 |                                     | of hydrophytic vegetation and dhydrology must be present, |  |  |  |
| ı — ·   | icky Peat or Peat (S                     | 33)             |                         | opi coolo  | ///o (1 0)             |                   |                                     | disturbed or problematic.                                 |  |  |  |
|   | Layer (if observed)                      |                 |                         |            |                        |                   |                                     | ·   |  |  |  |
| Type: Ro  | oot                                      |                 | _                       |            |                        |                   |                                     |   |  |  |  |
| Depth (in   | ches): 10                                |                 | _                       |            |                        |                   | Hydric Soil                         | Present? Yes No   |  |  |  |
| Remarks:  |  |                 |                         |            |                        |                   |                                     |   |  |  |  |
| Hydric :  | soil absent.                             |                 |                         |            |                        |                   |                                     |   |  |  |  |
| HYDROLO   | GY                                       |                 |                         |            |                        |                   |                                     |   |  |  |  |
| Wetland Hy  | drology Indicators                       | :               |                         |            |                        |                   |                                     |   |  |  |  |
| Primary India   | cators (minimum of                       | one is required | check all that ap       | ply)       |                        |                   | Seconda                             | ary Indicators (minimum of two required)                  |  |  |  |
| Surface   | Water (A1)                               |                 | Water-Stai              | ned Leav   | res (B9)               |                   | Surface Soil Cracks (B6)            |   |  |  |  |
| High Wa   | ater Table (A2)                          |                 | Aquatic Fa              | una (B13   | 3)                     |                   | Drainage Patterns (B10)             |   |  |  |  |
| Saturation  | on (A3)                                  |                 | True Aqua               | tic Plants | (B14)                  |                   | Dry-Season Water Table (C2)         |   |  |  |  |
| Water M   | , ,                                      |                 | Hydrogen                |            |                        |                   |                                     | yfish Burrows (C8)  |  |  |  |
| -   | nt Deposits (B2)                         |                 | Oxidized R              |            |                        | -                 |                                     | uration Visible on Aerial Imagery (C9)                    |  |  |  |
| ı —   | posits (B3)                              |                 | Presence of             |            | •                      | •                 |                                     | nted or Stressed Plants (D1)                              |  |  |  |
| -   | at or Crust (B4)                         |                 | Recent Iron             |            |                        | d Soils (Ct       | · —                                 | emorphic Position (D2)                                    |  |  |  |
| I —   | oosits (B5)<br>on Visible on Aerial      | Imageny (B7)    | Thin Muck<br>Gauge or \ |            |                        |                   | V FAC                               | C-Neutral Test (D5)                                       |  |  |  |
| ı —   | / Vegetated Concav                       |                 |                         |            | . ,                    |                   |                                     |   |  |  |  |
| Field Obser   |  |                 |                         |            | - Indiko               |                   |                                     |   |  |  |  |
| Surface Wat   |  | res No          | Depth (inc              | hes):      |                        |                   |                                     |   |  |  |  |
| Water Table   |  |                 | Depth (inc              |            |                        |                   |                                     |   |  |  |  |
| Saturation P  |  |                 | Depth (inc              |            |                        |                   | and Hydrolog                        | y Present? Yes No   |  |  |  |
| (includes car   | oillary fringe)                          |                 |                         |            |                        |                   |                                     | ,   |  |  |  |
| Describe Re   | corded Data (strean                      | n gauge, monito | oring well, aerial p    | hotos, pi  | revious ins            | spections),       | if available:                       |   |  |  |  |
| Remarks:  |  |                 |                         |            |                        |                   |                                     |   |  |  |  |
| Wetland   | l hydrology                              | absent.         |                         |            |                        |                   |                                     |   |  |  |  |
|   | , <del></del>                            |                 |                         |            |                        |                   |                                     |   |  |  |  |
|   |  |                 |                         |            |                        |                   |                                     |   |  |  |  |

| Project/Site: AEP Fostoria to Lima                                | City/0             | County: Bluffton  | /Allen   | Sampling Date: 2022-07-03                             |  |  |
|---|--------------------|-------------------|--|---|--|--|
| Applicant/Owner: AEP  |                    |                   | State: Ohio Sampling Point: 1-AH PE                |   |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   | Secti              | on, Township, Rai | nge: OH01 T1S R8E S                                | N36   |  |  |
| Landform (hillslope, terrace, etc.): Depression                   |                    | Local relief      | (concave, convex, none):                           | Concave   |  |  |
| Slope (%): 2 Lat: 40.906075                                       | Long               | -83.892758        |  | Datum: WGS 84   |  |  |
| Soil Map Unit Name: MbA   |                    |                   | NWI classification                                 | ation: PUBG/PUBGx/R2UBH                               |  |  |
| Are climatic / hydrologic conditions on the site typical for this | s time of year?    | res No _          | (If no, explain in Re                              | emarks.)  |  |  |
| Are Vegetation, Soil, or Hydrologys                               | ignificantly distu | rbed? Are "       | Normal Circumstances" p                            | resent? Yes No  |  |  |
| Are Vegetation, Soil, or Hydrology n                              | aturally problem   | atic? (If ne      | eded, explain any answer                           | rs in Remarks.)                                       |  |  |
| SUMMARY OF FINDINGS - Attach site map                             | showing san        | npling point l    | ocations, transects                                | , important features, etc.                            |  |  |
| Hydrophytic Vegetation Present? Yes N                             | 0                  |                   |  |   |  |  |
| Hydric Soil Present? Yes N  |                    | Is the Sampled    |  | N-  |  |  |
| Wetland Hydrology Present? Yes V N                                | 0                  | within a Wetlan   | id? Yes  | No  |  |  |
| Remarks:  |                    |                   |  |   |  |  |
| PEM. ORAM score of 38.  |                    |                   |  |   |  |  |
| VEGETATION – Use scientific names of plants.                      |                    |                   |  |   |  |  |
| 7. 0. 1. (D. 1.) 30 ft r  |                    | minant Indicator  | Dominance Test works                               | sheet:  |  |  |
| Tree Stratum (Plot size: 30 ft r ) 1                              |                    | ecies? Status     | Number of Dominant Sp<br>That Are OBL, FACW, o     |   |  |  |
| 2   |                    |                   | Total Number of Domina                             |   |  |  |
| 3   |                    |                   | Species Across All Strat                           | ta: <u>1</u> (B)                                      |  |  |
| 4<br>5  |                    |                   | Percent of Dominant Sp                             |   |  |  |
|   | = To               | tal Cover         | That Are OBL, FACW, o                              | (***)   |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                    |                   | Prevalence Index work                              |   |  |  |
| 1   |                    |                   | Total % Cover of:  OBL species  O                  | Multiply by:<br>x 1 = 0                               |  |  |
| 2   |                    |                   | FACW species 85                                    | $\times 1 = \frac{170}{170}$                          |  |  |
| 4   |                    |                   |  | x 3 = 0   |  |  |
| 5.  |                    |                   | FACU species 15                                    | x 4 = <u>60</u>                                       |  |  |
| Herb Stratum (Plot size: 5 ft r )                                 | = To               | tal Cover         | UPL species 0                                      | x 5 = 0   |  |  |
| Phalaris arundinacea  | 85                 | ✓ FACW            | Column Totals: 100                                 | (A) <u>230</u> (B)                                    |  |  |
| 2. Cirsium arvense  | 15                 | FACU              | Prevalence Index                                   | = B/A = <u>2.30</u>                                   |  |  |
| 3.  |                    |                   | Hydrophytic Vegetatio                              | n Indicators:   |  |  |
| 4   |                    |                   | 1 - Rapid Test for H                               | , , , ,   |  |  |
| 5   |                    |                   | 2 - Dominance Test                                 |   |  |  |
| 6   |                    |                   | 3 - Prevalence Inde                                | Adaptations <sup>1</sup> (Provide supporting          |  |  |
| 7<br>8  |                    |                   | data in Remarks                                    | s or on a separate sheet)                             |  |  |
| 9.  |                    |                   | Problematic Hydrop                                 | ohytic Vegetation¹ (Explain)                          |  |  |
| 10  |                    |                   | 1  |   |  |  |
|   | 100% = To          | tal Cover         | Indicators of hydric soil be present, unless distu | l and wetland hydrology must<br>irbed or problematic. |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                          |                    |                   |  |   |  |  |
| 1   |                    |                   | Hydrophytic Vegetation                             |   |  |  |
|   | = To               |                   | Present? Yes                                       | s No  |  |  |
| Remarks: (Include photo numbers here or on a separate s           | sheet.)            |                   | 1  |   |  |  |
| Hydrophytic vegetation present.                                   |                    |                   |  |   |  |  |
|   |                    |                   |  |   |  |  |

SOIL Sampling Point: 1-AH PEM

| Profile Desc  | cription: (Describe   | to the depth  | needed to docun       | nent the                                     | indicator          | or confirm       | n the absence of in     | dicators.)                                       |  |  |
|---|---|---|-----------------------|--|--------------------|------------------|-------------------------|--|--|--|
| Depth   | Matrix  |   | Redo                  | x Feature                                    | es                 |                  |                         |  |  |  |
| (inches)  | Color (moist)   | %   | Color (moist)         | %  | _Type <sup>1</sup> | Loc <sup>2</sup> | Texture                 | Remarks  |  |  |
| 0 - 20  | 10YR 5/2  | _ <u>85</u> 10  | 0YR 5/6               | 15   | <u>C</u>           | <u>M</u>         | Sandy Clay Loam         |  |  |  |
| -   |   |   |                       |  |                    |                  |                         |  |  |  |
|   |   |   |                       |  |                    |                  |                         |  |  |  |
|   |   |   |                       |  |                    |                  |                         |  |  |  |
| l — -   |   |   |                       |  |                    |                  |                         |  |  |  |
|   |   |   |                       |  |                    |                  |                         |  |  |  |
|   |   |   |                       |  |                    |                  |                         |  |  |  |
|   |   |   |                       |  |                    |                  |                         |  |  |  |
| <sup>1</sup> Type: C=C  | oncentration, D=De  | oletion RM=R  | educed Matrix MS      | S=Maske                                      | d Sand Gr          | aine             | 2l ocation: Pl          | =Pore Lining, M=Matrix.                          |  |  |
| Hydric Soil   |   | pietion, Nivi–N                                       | educed Matrix, Mc     | - Washe                                      | u Gariu Gi         | ali is.          |                         | Problematic Hydric Soils <sup>3</sup> :          |  |  |
| Histosol  |   |   | Sandy C               | Sleved Ma                                    | atrix (S4)         |                  |                         | e Redox (A16)                                    |  |  |
| ı —   | pipedon (A2)  |   |                       | Redox (St                                    |                    |                  | Dark Surfac             | . ,  |  |  |
| I —   | istic (A3)  |   |                       | Matrix (                                     |                    |                  |                         | nese Masses (F12)                                |  |  |
| Hydroge   | en Sulfide (A4)   |   | Loamy N               | Mucky Mi                                     | neral (F1)         |                  | Very Shallo             | w Dark Surface (TF12)                            |  |  |
| Stratified  | d Layers (A5)   |   |                       |  | atrix (F2)         |                  | Other (Expl             | ain in Remarks)                                  |  |  |
| ı —   | uck (A10)   |   |                       | d Matrix (                                   |                    |                  |                         |  |  |  |
| ı — ·   | d Below Dark Surfac   | ce (A11)  | _                     | Oark Surf                                    |                    |                  | 3                       |  |  |  |
| _   | ark Surface (A12)   |   |                       |  | urface (F7         | )                |                         | ydrophytic vegetation and                        |  |  |
|   | /lucky Mineral (S1)<br>ucky Peat or Peat (S   | :3)   | Redox L               | Depressio                                    | ons (F8)           |                  | -                       | rology must be present,<br>irbed or problematic. |  |  |
|   | Layer (if observed)   |   |                       |  |                    |                  | uniess distu            | inded of problematic.                            |  |  |
| l _   | Layer (ii observed)   |   |                       |  |                    |                  |                         |  |  |  |
|   | ches):  |   | _                     |  |                    |                  | Hydric Soil Pres        | ent? Yes No                                      |  |  |
|   | Cites)  |   |                       |  |                    |                  |                         |  |  |  |
| Remarks:  |   |   |                       |  |                    |                  |                         |  |  |  |
| Hydric  | soil present.   |   |                       |  |                    |                  |                         |  |  |  |
| 1   | •   |   |                       |  |                    |                  |                         |  |  |  |
|   |   |   |                       |  |                    |                  |                         |  |  |  |
| LIV/DD01.0  | -01   |   |                       |  |                    |                  |                         |  |  |  |
| HYDROLO   |   |   |                       |  |                    |                  |                         |  |  |  |
| 1   | drology Indicators  |   |                       |  |                    |                  |                         |  |  |  |
| Primary India   | cators (minimum of  | one is required                                       | ; check all that ap   | ply)   |                    |                  | Secondary In            | dicators (minimum of two required)               |  |  |
| Surface   | Water (A1)  |   | Water-Stai            | ned Leav                                     | res (B9)           |                  | Surface S               | Soil Cracks (B6)                                 |  |  |
| 1 — •   | ater Table (A2)   |   | Aquatic Fa            | una (B13                                     | 3)                 |                  | Drainage Patterns (B10) |  |  |  |
| Saturation  | on (A3)   |   | True Aqua             | tic Plants                                   | (B14)              |                  | Dry-Seas                | son Water Table (C2)                             |  |  |
| Water M   | larks (B1)  |   | Hydrogen              | Sulfide O                                    | dor (C1)           |                  | Crayfish                | Burrows (C8)                                     |  |  |
| Sedimer   | nt Deposits (B2)  |   | Oxidized R            |  |                    | •                | (C3) Saturatio          | n Visible on Aerial Imagery (C9)                 |  |  |
| ı —   | posits (B3)   |   | Presence              |  | •                  | •                |                         | or Stressed Plants (D1)                          |  |  |
| -   | at or Crust (B4)  |   | Recent Iro            | n Reduct                                     | ion in Tille       | d Soils (C       | . — .                   | phic Position (D2)                               |  |  |
| I I Day   | oceite (R5)   |   |                       |  |                    |                  |                         |  |  |  |
| Iron Dep  | , ,   |   | Thin Muck             | Surface                                      | (C7)               |                  | FAC-Neu                 | tral Test (D5)                                   |  |  |
| Inundati  | on Visible on Aerial  |   | Gauge or \            | Well Data                                    | (D9)               |                  | <u></u> FAC-Neu         | itral Test (D5)                                  |  |  |
| Inundati  | , ,   |   | Gauge or \            | Well Data                                    | (D9)               |                  | <u> </u>                | ıtral Test (D5)                                  |  |  |
| Inundati  | on Visible on Aerial y Vegetated Concav vations:  | re Surface (B8)                                       | Gauge or \ Other (Exp | Well Data<br>lain in Re                      | (D9)<br>emarks)    |                  | <u>✓</u> FAC-Neu        | itral Test (D5)                                  |  |  |
| Inundati  | on Visible on Aerial<br>y Vegetated Concav<br>vations:<br>er Present?   | re Surface (B8)                                       | Gauge or \ Other (Exp | Well Data<br>plain in Re<br>ches):           | n (D9)<br>emarks)  |                  | <u>V</u> FAC-Neu        | itral Test (D5)                                  |  |  |
| Inundati<br>Sparsely<br>Field Obser   | on Visible on Aerial<br>y Vegetated Concav<br>vations:<br>er Present?   | re Surface (B8)                                       | Gauge or \ Other (Exp | Well Data<br>plain in Re<br>ches):           | n (D9)<br>emarks)  |                  | <u>V</u> FAC-Neu        | itral Test (D5)                                  |  |  |
| Inundati Sparsely Field Obser Surface Wat   | on Visible on Aerial y Vegetated Concav vations: er Present? Present?   | re Surface (B8)  Yes No Yes No                        | Gauge or \ Other (Exp | Well Data<br>plain in Re<br>ches):<br>ches): | n (D9)<br>emarks)  | _                |                         | esent? Yes No                                    |  |  |
| Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca                                   | on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent? pillary fringe)                     | re Surface (B8)  res No  res No  res No               | Gauge or \ Other (Exp | Well Data plain in Re ches): ches): ches): 0 | i (D9)<br>emarks)  | Weti             | land Hydrology Pre      |  |  |  |
| Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca                                   | on Visible on Aerial y Vegetated Concav vations: er Present? Present?   | re Surface (B8)  res No  res No  res No               | Gauge or \ Other (Exp | Well Data plain in Re ches): ches): ches): 0 | i (D9)<br>emarks)  | Weti             | land Hydrology Pre      |  |  |  |
| Inundati<br>Sparsely<br>Field Obser<br>Surface Wat<br>Water Table<br>Saturation P<br>(includes cal<br>Describe Re | on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent? pillary fringe)                     | re Surface (B8)  res No  res No  res No               | Gauge or \ Other (Exp | Well Data plain in Re ches): ches): ches): 0 | i (D9)<br>emarks)  | Weti             | land Hydrology Pre      |  |  |  |
| Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca                                   | on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent? pillary fringe)                     | re Surface (B8)  res No  res No  res No               | Gauge or \ Other (Exp | Well Data plain in Re ches): ches): ches): 0 | i (D9)<br>emarks)  | Weti             | land Hydrology Pre      |  |  |  |
| Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cal Describe Re                      | on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent? pillary fringe) corded Data (stream | re Surface (B8)  Yes No Yes No Yes No In gauge, monit | Gauge or \ Other (Exp | Well Data plain in Re ches): ches): ches): 0 | i (D9)<br>emarks)  | Weti             | land Hydrology Pre      |  |  |  |
| Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cal Describe Re                      | on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent? pillary fringe)                     | re Surface (B8)  Yes No Yes No Yes No In gauge, monit | Gauge or \ Other (Exp | Well Data plain in Re ches): ches): ches): 0 | i (D9)<br>emarks)  | Weti             | land Hydrology Pre      |  |  |  |

| Project/Site: AEP Fostoria to Lima                                |              | City/County:                           | Sampling Date: 2022-07-03 |  |  |  |  |
|---|--------------|--|---------------------------|--|--|--|--|
| Applicant/Owner: AEP  |              | State: Ohio Sampling Point: 1-AH PFO 2 |                           |  |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   | 8            | Section, Tov                           | wnship, Ra                | <sub>nge:</sub> OH01 T2S R8E S             | SN1  |  |  |
| Landform (hillslope, terrace, etc.): Depression                   |              | ι                                      | ocal relief               | (concave, convex, none):                   | Concave  |  |  |
| Slope (%): 2 Lat: 40.905319                                       | ι            | _ong:83.                               | 894161                    |  | Datum: WGS 84  |  |  |
| Soil Map Unit Name: MbA   |              |  |                           | NWI classific                              | ation: PUBG/PUBGx/R2UBH  |  |  |
| Are climatic / hydrologic conditions on the site typical for this | time of yea  | ır? Yes                                | No_                       | (If no, explain in R                       | emarks.)   |  |  |
| Are Vegetation, Soil, or Hydrology sig                            | nificantly o | disturbed?                             | Are '                     | 'Normal Circumstances" p                   | present? Yes No  |  |  |
| Are Vegetation, Soil, or Hydrology na                             | turally prob | olematic?                              | (If ne                    | eeded, explain any answe                   | rs in Remarks.)  |  |  |
| SUMMARY OF FINDINGS - Attach site map s                           | howing       | sampling                               | g point l                 | ocations, transects                        | , important features, etc.   |  |  |
| Hydrophytic Vegetation Present? Yes No                            |              |  |                           |  |  |  |  |
| Hydric Soil Present? Yes No                                       |              |  | e Sampled                 |  |  |  |  |
| Wetland Hydrology Present? Yes No                                 |              | withi                                  | n a Wetlar                | nd? Yes                                    | No   |  |  |
| Remarks:  |              |  |                           |  |  |  |  |
| PFO. ORAM score of 38.  |              |  |                           |  |  |  |  |
| VECTATION Has significant and a lands                             |              |  |                           |  |  |  |  |
| <b>VEGETATION</b> – Use scientific names of plants.               | A ba alusta  | Daminant                               | Indicator                 | Daminanaa Taat wark                        | ahaat.   |  |  |
|   |              | Dominant Species?                      |                           | Dominance Test work  Number of Dominant Sp |  |  |  |
| 1. Aesculus glabra  | 35           |  | FAC                       | That Are OBL, FACW, of                     |  |  |  |
| 2   |              |  |                           | Total Number of Domin                      | ant  |  |  |
| 3   |              |  |                           | Species Across All Stra                    | ta: <u>4</u> (B)   |  |  |
| 4   |              |  |                           | Percent of Dominant Sp                     |  |  |  |
| 5   | <br>35% :    | = Total Cov                            | er                        | That Are OBL, FACW, o                      | or FAC: 100 (A/B)  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |              |  | -                         | Prevalence Index wor                       |  |  |  |
| 1   |              |  |                           | Total % Cover of:                          |  |  |  |
| 2   |              |  |                           |  | $x 1 = \frac{0}{80}$   |  |  |
| 3   |              |  |                           | 1  | x 3 = 105  |  |  |
| 5   |              |  |                           |  | x 4 = 0  |  |  |
|   |              | = Total Cov                            | er                        | UPL species 0                              | x 5 = 0  |  |  |
| Herb Stratum (Plot size: 5 ft r )                                 | 15           | ~                                      | FACW                      | Column Totals: 75                          | (A) <u>185</u> (B)   |  |  |
| 2. Verbesina alternifolia   | 15           |  | FACW                      | Prevalence Index                           | = B/A = <u>2.47</u>  |  |  |
| 3. Carex grayi  | 10           | <u> </u>                               | FACW                      | Hydrophytic Vegetation                     |  |  |  |
| 4   |              |  |                           | 1 - Rapid Test for H                       | Hydrophytic Vegetation   |  |  |
| 5.  |              |  |                           | ✓ 2 - Dominance Tes                        | t is >50%  |  |  |
| 6   |              |  |                           | ✓ 3 - Prevalence Inde                      |  |  |  |
| 7   |              |  |                           | 4 - Morphological A                        | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |  |  |
| 8   |              |  |                           |  | phytic Vegetation <sup>1</sup> (Explain)                               |  |  |
| 9   |              |  |                           |  | (,,  |  |  |
| 10  | 400/         | <br>= Total Cov                        |                           |  | I and wetland hydrology must   |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                          |              | - Total Cov                            | CI                        | be present, unless distu                   | irbed or problematic.  |  |  |
| 1   |              |  |                           | Hydrophytic                                |  |  |  |
| 2   |              |  |                           | Vegetation<br>  Present? Yes               | s No   |  |  |
| Remarks: (Include photo numbers here or on a separate sh          |              | = Total Cov                            | er                        |  |  |  |  |
|   | ,            |  |                           |  |  |  |  |
| Hydrophytic vegetation present.                                   |              |  |                           |  |  |  |  |

SOIL Sampling Point: 1-AH PFO 1

| Profile Desc       | cription: (Describe                        | to the dept       | n needed to docur     | nent the i             | ndicator          | or confirn       | the absence of            | f indicators.)                                  |
|--------------------|--|-------------------|-----------------------|------------------------|-------------------|------------------|---------------------------|---|
| Depth              | Matrix                                     |                   |                       | x Feature              |                   | 12               | Total                     | Downsto   |
| (inches)<br>0 - 20 | Color (moist)                              | _ <u>%</u> _      | Color (moist)         | <u>%</u><br>5          | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                   | Remarks   |
|                    | 10YR 4/2                                   | _ <u>95</u> -     | 10YR 5/6              | · <del></del>          | <u> </u>          | IVI              | Sandy Clay Loam           |   |
|                    |  |                   |                       |                        |                   |                  |                           |   |
|                    |  |                   |                       |                        |                   |                  |                           |   |
|                    |  |                   |                       |                        |                   |                  |                           |   |
| -                  |  |                   |                       |                        |                   |                  |                           |   |
|                    |  |                   |                       |                        |                   |                  |                           |   |
|                    |  |                   |                       |                        |                   |                  |                           |   |
| Type: C=C          | oncentration, D=De                         | <br>pletion, RM=l | Reduced Matrix, MS    | S=Masked               | Sand Gr           | ains.            | <sup>2</sup> Location:    | PL=Pore Lining, M=Matrix.                       |
| Hydric Soil        |  |                   | ·                     |                        |                   |                  |                           | or Problematic Hydric Soils³:                   |
| Histosol           | (A1)                                       |                   | Sandy (               | Gleyed Ma              | atrix (S4)        |                  | Coast Pr                  | rairie Redox (A16)                              |
| ı —                | oipedon (A2)                               |                   |                       | Redox (S5              |                   |                  | Dark Sur                  | • •   |
| ı —                | istic (A3)                                 |                   |                       | d Matrix (S            | ,                 |                  | _                         | nganese Masses (F12)                            |
|                    | en Sulfide (A4)<br>d Layers (A5)           |                   |                       | Mucky Mir<br>Gleyed Ma | , ,               |                  |                           | allow Dark Surface (TF12)<br>xplain in Remarks) |
| _                  | ick (A10)                                  |                   |                       | d Matrix (             |                   |                  | Other (E                  | xpiairi iii Keriiaiks)                          |
| _                  | d Below Dark Surfac                        | ce (A11)          |                       | Dark Surfa             | ,                 |                  |                           |   |
| Thick Da           | ark Surface (A12)                          | , ,               | _                     | d Dark Su              |                   | )                | <sup>3</sup> Indicators o | f hydrophytic vegetation and                    |
| ı —                | Mucky Mineral (S1)                         |                   | Redox [               | Depressio              | ns (F8)           |                  | wetland l                 | nydrology must be present,                      |
|                    | icky Peat or Peat (S                       |                   |                       |                        |                   |                  | unless d                  | isturbed or problematic.                        |
| _                  | Layer (if observed)                        | ):                |                       |                        |                   |                  |                           |   |
| Type:              |  |                   | _                     |                        |                   |                  | Hydric Soil P             | resent? Yes No                                  |
| Depth (in          | ches):                                     |                   |                       |                        |                   |                  | 1.,,                      |   |
|                    |  |                   |                       |                        |                   |                  |                           |   |
| HYDROLO            | GY   |                   |                       |                        |                   |                  |                           |   |
| Wetland Hy         | drology Indicators                         | :                 |                       |                        |                   |                  |                           |   |
| Primary India      | cators (minimum of                         | one is require    | ed; check all that ap | ply)                   |                   |                  | <u>Secondary</u>          | Indicators (minimum of two required)            |
| Surface            | Water (A1)                                 |                   | Water-Sta             | ined Leav              | es (B9)           |                  | Surfac                    | ce Soil Cracks (B6)                             |
| ı —                | ater Table (A2)                            |                   | Aquatic Fa            | auna (B13              | )                 |                  | Draina                    | age Patterns (B10)                              |
| Saturation         |  |                   | True Aqua             |                        |                   |                  |                           | eason Water Table (C2)                          |
| —                  | larks (B1)                                 |                   | Hydrogen              |                        |                   |                  |                           | sh Burrows (C8)                                 |
|                    | nt Deposits (B2)                           |                   | Oxidized F            |                        |                   |                  |                           | ation Visible on Aerial Imagery (C9)            |
| ı —                | posits (B3)                                |                   | Presence              |                        |                   | ,                | _                         | ed or Stressed Plants (D1)                      |
| -                  | at or Crust (B4)                           |                   | Recent Iro            |                        |                   | d Soils (Ct      |                           | orphic Position (D2)                            |
| — :                | oosits (B5)                                | Imagany (P7       | Thin Muck             | ,                      |                   |                  | FAC-                      | Neutral Test (D5)                               |
| —                  | on Visible on Aerial<br>v Vegetated Concav |                   |                       |                        |                   |                  |                           |   |
| Field Obser        |  | re odriace (D     | o) other (Ex          | Jiaiii III I (C        | iliaiks)          |                  |                           |   |
| Surface Wat        |  | Yes N             | o Depth (in           | ches):                 |                   |                  |                           |   |
| Water Table        |  |                   | o Depth (in           |                        |                   |                  |                           |   |
| Saturation P       |  |                   | o Depth (in           |                        |                   |                  | and Hydrology I           | Present? Yes No                                 |
| (includes car      | oillary fringe)                            |                   |                       |                        |                   |                  |                           |   |
| Describe Re        | corded Data (strean                        | ıı gauge, mor     | illoring well, aerial | priotos, pr            | evious ins        | spections),      | ıı available:             |   |
| Remarks:           |  |                   |                       |                        |                   |                  |                           |   |
| Wetland            | l hydrology                                | present           | •                     |                        |                   |                  |                           |   |
|                    | ) ·  |                   |                       |                        |                   |                  |                           |   |
|                    |  |                   |                       |                        |                   |                  |                           |   |

| Project/Site: AEP Fostoria to Lima                                  |                      | City/County | Blufftor      | Sampling Date:  | 2022-07-03              |               |
|---|----------------------|-------------|---------------|---|-------------------------|---------------|
| Applicant/Owner: AEP  |                      |             |               | Ola:a   |                         |               |
|   |                      | Section. To | wnship. Ra    | nge: OH01 T1S R8E S   |                         |               |
|   |                      |             |               | (concave, convex, none):  |                         |               |
|   |                      |             |               |   |                         | 34            |
| Soil Map Unit Name: MbA   |                      | Long.       |               | NWI classific   |                         |               |
| Are climatic / hydrologic conditions on the site typical for t      | hia tima af va       | or? Vos     |               |   |                         |               |
| Are Vegetation, Soil, or Hydrology                                  |                      |             |               |   |                         | No            |
| Are Vegetation, Soil, or Hydrology                                  |                      |             |               | eeded, explain any answe  |                         |               |
| SUMMARY OF FINDINGS – Attach site ma                                |                      |             | g point l     | ocations, transects   | , important fe          | eatures, etc. |
| Hydrophytic Vegetation Present? Yes                                 | No                   |             |               |   |                         |               |
|   | No                   |             | e Sampled     |   | ,                       |               |
|   | No                   | with        | in a Wetlar   | nd? Yes   | No                      |               |
| Remarks:  |                      |             |               |   |                         |               |
| PFO. ORAM score of 38.  |                      |             |               |   |                         |               |
| VEGETATION – Use scientific names of plant                          | s.                   |             |               |   |                         |               |
| 20 ft r   | Absolute             | Dominant    |               | Dominance Test work   | sheet:                  |               |
| Tree Stratum (Plot size: 30 ft r )  1. Acer negundo                 | <u>% Cover</u><br>15 | Species?    | Status<br>FAC | Number of Dominant S  |                         |               |
| 2. Acer regulato Acer regulato Acer regulato                        | — <del>15</del> ——   |             | FAC           | That Are OBL, FACW,   | or FAC: 8               | (A)           |
| 3. Quercus velutina   | <del>13</del>        |             | 170           | Total Number of Domin   |                         |               |
| Ulmus americana   | <del>10</del>        |             | FACW          | Species Across All Stra   | nta: <u>8</u>           | (B)           |
| 5. Prunus serotina  | <del>10</del>        |             | FACU          | Percent of Dominant Sp  |                         |               |
| 3. <u>1 rando 3 rando</u>   |                      | = Total Cov |               | That Are OBL, FACW,   | or FAC: 100             | (A/B)         |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                         |                      | - Total Cov | OI .          | Prevalence Index wor  | ksheet:                 |               |
| 1. Acer negundo   | 10                   |             | FAC           | Total % Cover of:   |                         | ly by:        |
| 2. Ulmus americana  | <u>10</u>            |             | FACW          | OBL species 0   | x 1 = <u>0</u>          |               |
| 3. Aesculus glabra  | 5                    |             | FAC           | FACW species 80   | x 2 = <u>160</u>        |               |
| 4   |                      |             |               | FAC species 60  | x 3 = 180               |               |
| 5   |                      |             |               | FACU species 15   | x 4 = 60                |               |
| Herb Stratum (Plot size: 5 ft r )                                   | <u>25%</u>           | = Total Cov | er            | UPL species 0   | x 5 = 0                 |               |
| Lysimachia nummularia   | 25                   | ~           | FACW          | Column Totals: 155  | (A) <u>40</u>           | 0 (B)         |
| 2 Phalaris arundinacea  |                      |             | FACW          | Prevalence Index  | = B/A = 2.58            |               |
| 3. Bidens frondosa  | 10                   |             | FACW          | Hydrophytic Vegetation  |                         |               |
| A. Parthenocissus quinquefolia                                      |                      |             | FACU          | 1 - Rapid Test for I  | Hydrophytic Vege        | tation        |
| 5. Pilea pumila   | 10                   |             | FACW          | ✓ 2 - Dominance Tes   | st is >50%              |               |
| 6.  |                      |             |               | ✓ 3 - Prevalence Inde   | ex is ≤3.0 <sup>1</sup> |               |
| 7   |                      |             |               | 4 - Morphological A   |                         |               |
| 8   |                      |             |               |   | s or on a separate      | · '           |
| 9   |                      |             |               | Problematic Hydro   | phytic Vegetation       | (Explain)     |
| 10  |                      |             |               | 1 Indicators of hydric aci  | il and watland hyd      | Iralagu must  |
| West-Viss Obstant (Dist : 30 ft r                                   | 70%                  | = Total Cov | er            | <sup>1</sup> Indicators of hydric soi<br>be present, unless distu |                         |               |
| Woody Vine Stratum (Plot size: 30 ft r )  1. Toxicodendron radicans | 15                   | ~           | FAC           |   | -                       |               |
|   |                      |             |               | Hydrophytic Vegetation  |                         |               |
| 2   | <br>15%              | = Total Cov |               | Present? Ye   | s No_                   |               |
| Remarks: (Include photo numbers here or on a separat                |                      | - Total COV |               |   |                         |               |
|   | /                    |             |               |   |                         |               |
| Hydrophytic vegetation present.                                     |                      |             |               |   |                         |               |
|   |                      |             |               |   |                         |               |

Soll Sampling Point: 1-AH PFO 2

| Profile Desc               | ription: (Describe                          | to the depth      | needed to docur                  | nent the   | indicator          | or confirn          | n the absence of ir      | ndicators.)                                       |  |  |  |
|----------------------------|---|-------------------|----------------------------------|------------|--------------------|---------------------|--------------------------|---|--|--|--|
| Depth                      | Matrix                                      |                   | Redo                             | x Feature  | es                 |                     |                          |   |  |  |  |
| (inches)                   | Color (moist)                               | %                 | Color (moist)                    | %          | _Type <sup>1</sup> | _Loc <sup>2</sup> _ | Texture                  | Remarks   |  |  |  |
| 0 - 20                     | 10YR 4/2                                    | 95 1              | 0YR 5/6                          | 5          | <u>C</u>           | <u>M</u>            | Sandy Clay Loam          |   |  |  |  |
| -                          |   |                   |                                  |            |                    |                     |                          |   |  |  |  |
|                            |   |                   |                                  |            |                    |                     |                          |   |  |  |  |
|                            |   |                   |                                  |            |                    |                     |                          |   |  |  |  |
| <u> </u>                   |   |                   |                                  |            |                    |                     |                          |   |  |  |  |
|                            |   |                   |                                  |            |                    |                     |                          |   |  |  |  |
|                            |   |                   |                                  |            |                    |                     |                          |   |  |  |  |
|                            |   |                   |                                  |            |                    |                     |                          |   |  |  |  |
| ¹Type: C=C                 | oncentration, D=De                          | oletion RM=R      | educed Matrix MS                 | S=Masker   | d Sand Gr          | aine                | 2l ocation: Pl           | .=Pore Lining, M=Matrix.                          |  |  |  |
| Hydric Soil                |   | pietion, rtivi–rt | educed Matrix, Mc                | J-Washer   | u Gariu Gi         | allis.              |                          | Problematic Hydric Soils <sup>3</sup> :           |  |  |  |
| Histosol                   |   |                   | Sandy (                          | Sleved Ma  | atrix (S4)         |                     |                          | rie Redox (A16)                                   |  |  |  |
| ı —                        | oipedon (A2)                                |                   |                                  | Redox (St  |                    |                     | Dark Surfa               |   |  |  |  |
| ı —                        | istic (A3)                                  |                   |                                  | l Matrix ( |                    |                     |                          | anese Masses (F12)                                |  |  |  |
| Hydroge                    | en Sulfide (A4)                             |                   | Loamy I                          | Mucky Mi   | neral (F1)         |                     | Very Shallo              | ow Dark Surface (TF12)                            |  |  |  |
| Stratified                 | d Layers (A5)                               |                   |                                  |            | atrix (F2)         |                     | Other (Exp               | lain in Remarks)                                  |  |  |  |
| _                          | ıck (A10)                                   |                   |                                  | d Matrix ( |                    |                     |                          |   |  |  |  |
| ı —                        | d Below Dark Surfac                         | ce (A11)          | _                                | Dark Surfa |                    |                     | 3                        |   |  |  |  |
| _                          | ark Surface (A12)                           |                   |                                  |            | urface (F7         | )                   |                          | ydrophytic vegetation and                         |  |  |  |
|                            | /lucky Mineral (S1)<br>ucky Peat or Peat (S | :3)               | Redox I                          | Depressio  | ons (Fo)           |                     | •                        | drology must be present,<br>urbed or problematic. |  |  |  |
|                            | Layer (if observed)                         |                   |                                  |            |                    |                     | unless disc              | urbed or problematic.                             |  |  |  |
| l _                        |   |                   |                                  |            |                    |                     |                          |   |  |  |  |
| 1                          | ches):                                      |                   | _                                |            |                    |                     | Hydric Soil Pres         | sent? Yes No                                      |  |  |  |
| Remarks:                   | Ciles).                                     |                   |                                  |            |                    |                     |                          |   |  |  |  |
| Hydric                     | soil present.                               |                   |                                  |            |                    |                     |                          |   |  |  |  |
| HYDROLO                    | GY  |                   |                                  |            |                    |                     |                          |   |  |  |  |
| Wetland Hy                 | drology Indicators                          | :                 |                                  |            |                    |                     |                          |   |  |  |  |
| Primary India              | cators (minimum of                          | one is required   | d; check all that ap             | ply)       |                    |                     | Secondary Ir             | ndicators (minimum of two required)               |  |  |  |
| Surface                    | Water (A1)                                  |                   | Water-Sta                        | ned Leav   | res (B9)           |                     | Surface Soil Cracks (B6) |   |  |  |  |
| High Wa                    | ater Table (A2)                             |                   | Aquatic Fa                       | una (B13   | 3)                 |                     | Drainage                 | e Patterns (B10)                                  |  |  |  |
| Saturation                 | on (A3)                                     |                   | True Aqua                        | tic Plants | (B14)              |                     | Dry-Sea                  | son Water Table (C2)                              |  |  |  |
| Water M                    | larks (B1)                                  |                   | Hydrogen                         | Sulfide O  | dor (C1)           |                     | Crayfish                 | Burrows (C8)                                      |  |  |  |
| ✓ Sedimer                  | nt Deposits (B2)                            |                   | Oxidized F                       | Rhizosphe  | eres on Liv        | ing Roots           | (C3) Saturation          | on Visible on Aerial Imagery (C9)                 |  |  |  |
| Drift Dep                  | posits (B3)                                 |                   | Presence                         | of Reduce  | ed Iron (C         | 4)                  | Stunted                  | or Stressed Plants (D1)                           |  |  |  |
| ı —                        | at or Crust (B4)                            |                   | Recent Iro                       | n Reduct   | ion in Tille       | d Soils (C6         | <i>-</i>                 | phic Position (D2)                                |  |  |  |
| I —                        | oosits (B5)                                 |                   | Thin Muck                        | Surface    | (C7)               |                     | ✓ FAC-Ne                 | utral Test (D5)                                   |  |  |  |
| ı —                        | on Visible on Aerial                        |                   | Gauge or \                       |            | , ,                |                     |                          |   |  |  |  |
|                            | y Vegetated Concav                          | e Surface (B8     | Other (Exp                       | lain in Re | emarks)            |                     |                          |   |  |  |  |
| Field Obser                |   |                   |                                  |            |                    |                     |                          |   |  |  |  |
| Surface Wat                |   |                   | Depth (inc                       |            |                    |                     |                          |   |  |  |  |
| Water Table                |   |                   | Depth (in                        |            |                    |                     |                          | ,   |  |  |  |
| Saturation P (includes car | oillary fringe)                             |                   | Depth (in                        |            |                    |                     |                          | esent? Yes No                                     |  |  |  |
| Describe Re                | corded Data (strean                         | n gauge, moni     | toring well, aerial <sub>l</sub> | ohotos, pi | revious ins        | spections),         | if available:            |   |  |  |  |
| Remarks:                   |   |                   |                                  |            |                    |                     |                          |   |  |  |  |
| Wetland                    | l hydrology                                 | nracant           |                                  |            |                    |                     |                          |   |  |  |  |
| vvetiaiio                  | l hydrology                                 | hieseiit.         |                                  |            |                    |                     |                          |   |  |  |  |
|                            |   |                   |                                  |            |                    |                     |                          |   |  |  |  |

| Project/Site: AEP Fostoria to Lima                               | (              | City/Co                      | ounty: | Bluffton    | Allen Sampling Date: 2022-07-03  |  |
|--|----------------|------------------------------|--------|-------------|--|--|
| Applicant/Owner: AEP   |                |                              |        |             | State: Ohio Sampling Point: 1-AH UPL   |  |
| Investigator(s): Beth Hollinden, Chris Davisson                  |                | Sectio                       | n, Tov | vnship, Rar | nge: OH01 T1S R8E SN36   |  |
| Landform (hillslope, terrace, etc.): Hillslope                   |                |                              | L      | ocal relief | (concave, convex, none): Convex  |  |
| Slope (%): 1 Lat: 40.906317                                      |                | Long:83.892483 Datum: WGS 84 |        |             |  |  |
| Soil Map Unit Name: Gwg5B2                                       |                |                              |        |             | NWI classification: N/A  |  |
| Are climatic / hydrologic conditions on the site typical for the | is time of yea | ar? Ye                       | es     | No _        | (If no, explain in Remarks.)   |  |
| Are Vegetation, Soil, or Hydrology                               | significantly  | disturb                      | ed?    | Are "       | Normal Circumstances" present? Yes No  |  |
| Are Vegetation, Soil, or Hydrology                               | naturally pro  | blema                        | tic?   | (If ne      | eeded, explain any answers in Remarks.)  |  |
| SUMMARY OF FINDINGS - Attach site map                            | showing        | sam                          | pling  | g point lo  | ocations, transects, important features, etc.  |  |
| Hydrophytic Vegetation Present? Yes I                            | No             |                              |        |             |  |  |
| Hydric Soil Present? Yes I                                       |                |                              |        | Sampled     |  |  |
| Wetland Hydrology Present? Yes I                                 | No             |                              | withi  | n a Wetlan  | nd? Yes No   |  |
| Remarks:   |                |                              |        |             |  |  |
| Upland point for Wetland 1-AH.                                   |                |                              |        |             |  |  |
| VEGETATION – Use scientific names of plants                      | S.             |                              |        |             |  |  |
| Tree Stratum (Plot size: 30 ft r )                               | Absolute       |                              |        | Indicator   | Dominance Test worksheet:  |  |
| 1  | % Cover        |                              |        |             | Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)                               |  |
| 2.   |                |                              |        |             | Total Number of Dominant   |  |
| 3  |                |                              |        |             | Species Across All Strata: 4 (B)   |  |
| 4  |                |                              |        |             | Percent of Dominant Species  |  |
| 5  |                |                              |        |             | That Are OBL, FACW, or FAC: 50 (A/B)   |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                      |                | = Tota                       | al Cov | er          | Prevalence Index worksheet:  |  |
| 1. Elaeagnus umbellata   | 5              |                              | _      |             | Total % Cover of: Multiply by:   |  |
| 2. Robinia pseudoacacia  | 5              |                              |        | FACU        | OBL species <u>0</u> x 1 = <u>0</u>  |  |
| 3  |                |                              |        |             | FACW species <u>35</u> x 2 = <u>70</u>   |  |
| 4  |                |                              |        |             | FAC species 0 x 3 = 0  |  |
| 5  |                |                              |        |             | FACU species 60 x 4 = 240  |  |
| Herb Stratum (Plot size: 5 ft r )                                | 10%            | = Tota                       | al Cov | er          | UPL species $\frac{0}{25}$ $\times 5 = \frac{0}{210}$                                      |  |
| 1 Solidago canadensis  | 35             | ·                            | /      | FACU        | Column Totals: <u>95</u> (A) <u>310</u> (B)  |  |
| 2. Phalaris arundinacea  | 25             |                              |        | FACW        | Prevalence Index = B/A = 3.26  |  |
| 3. Cirsium arvense   | 10             |                              |        | FACU        | Hydrophytic Vegetation Indicators:   |  |
| 4. Rubus allegheniensis  | 10             |                              |        | FACU        | 1 - Rapid Test for Hydrophytic Vegetation  |  |
| 5.   |                |                              |        |             | 2 - Dominance Test is >50%   |  |
| 6  |                |                              |        |             | 3 - Prevalence Index is ≤3.0 <sup>1</sup>  |  |
| 7  |                |                              |        |             | 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) |  |
| 8  |                |                              |        |             | Problematic Hydrophytic Vegetation (Explain)   |  |
| 9  |                |                              |        |             | Troblematic Hydrophytic Vegetation (Explain)   |  |
| 10   | 000/           | _                            |        |             | <sup>1</sup> Indicators of hydric soil and wetland hydrology must                          |  |
| Woody Vine Stratum (Plot size: 30 ft r )                         | 80%            | = Tota                       | al Cov | er          | be present, unless disturbed or problematic.   |  |
| 1. Vitis riparia   | 10             |                              |        | FACW        | Hydrophytic  |  |
| 2.   |                |                              |        |             | Vegetation   |  |
|  | 10%            | = Tota                       | al Cov | er          | Present? Yes No  |  |
| Remarks: (Include photo numbers here or on a separate            | sheet.)        |                              |        |             |  |  |
| Hydrophytic vegetation absent.                                   |                |                              |        |             |  |  |
|  |                |                              |        |             |  |  |

SOIL Sampling Point: 1-AH UPL

| Profile Desc  | cription: (Describe                         | to the depth r   | needed to docu     | ment the i               | ndicator             | or confirn          | n the absence | of indicators.)   |
|---------------|---|------------------|--------------------|--------------------------|----------------------|---------------------|---------------|---|
| Depth         | Matrix                                      |                  | Red                | ox Feature:              |                      |                     |               |   |
| (inches)      | Color (moist)                               |                  | Color (moist)      | %                        | _Type <sup>1</sup> _ | _Loc <sup>2</sup> _ | Texture       | Remarks   |
| 0 - 10        | 10YR 5/2                                    | <u> 100</u> _    |                    |                          |                      |                     | Silty Clay    | Highly compacted.   |
|               |   |                  |                    |                          |                      |                     |               |   |
| -             |   |                  |                    |                          |                      |                     |               |   |
|               |   |                  |                    |                          |                      |                     |               |   |
|               |   |                  |                    |                          |                      |                     |               |   |
|               |   | - — —            |                    |                          |                      |                     |               |   |
|               |   |                  |                    |                          |                      |                     |               |   |
|               |   | - — —            |                    |                          |                      |                     |               |   |
|               | oncentration, D=Dep                         | oletion, RM=Re   | duced Matrix, M    | S=Masked                 | Sand Gra             | ains.               |               | : PL=Pore Lining, M=Matrix.                               |
| Hydric Soil   |   |                  |                    |                          |                      |                     |               | for Problematic Hydric Soils <sup>3</sup> :               |
| Histosol      | , ,   |                  |                    | Gleyed Ma                |                      |                     | _             | Prairie Redox (A16)                                       |
| I —           | oipedon (A2)<br>istic (A3)                  |                  |                    | Redox (S5<br>d Matrix (S | -                    |                     |               | Surface (S7)<br>anganese Masses (F12)                     |
| ı —           | en Sulfide (A4)                             |                  |                    | Mucky Mir                | ,                    |                     | _             | challow Dark Surface (TF12)                               |
|               | d Layers (A5)                               |                  |                    | Gleyed Ma                | , ,                  |                     |               | (Explain in Remarks)                                      |
| 2 cm Mu       | ıck (A10)                                   |                  | Deplete            | ed Matrix (I             | F3)                  |                     |               |   |
|               | d Below Dark Surfac                         | e (A11)          | _                  | Dark Surfa               |                      |                     | 3             |   |
| _             | ark Surface (A12)                           |                  |                    | ed Dark Su               | , ,                  |                     |               | of hydrophytic vegetation and                             |
| ı — ·         | /lucky Mineral (S1)<br>ucky Peat or Peat (S | 3)               | Redox              | Depression               | ns (F6)              |                     |               | d hydrology must be present,<br>disturbed or problematic. |
|               | Layer (if observed)                         |                  |                    |                          |                      |                     | unicoo        | distarbed of problematic.                                 |
| Type: _G      |   |                  |                    |                          |                      |                     |               |   |
|               | ches): 10                                   |                  | _                  |                          |                      |                     | Hydric Soil   | Present? Yes No   |
| Remarks:      |   |                  |                    |                          |                      |                     |               |   |
| Hydric        | soil absent.                                |                  |                    |                          |                      |                     |               |   |
| HYDROLO       | GY  |                  |                    |                          |                      |                     |               |   |
| Wetland Hy    | drology Indicators:                         |                  |                    |                          |                      |                     |               |   |
| Primary India | cators (minimum of o                        | one is required: | check all that a   | pply)                    |                      |                     | Seconda       | ary Indicators (minimum of two required)                  |
| Surface       | Water (A1)                                  |                  | Water-Sta          | ained Leave              | es (B9)              |                     | Surf          | face Soil Cracks (B6)                                     |
| ı —           | ater Table (A2)                             |                  | —                  | auna (B13)               | ,                    |                     | _             | nage Patterns (B10)                                       |
| Saturation    | ,   |                  |                    | atic Plants              | , ,                  |                     | _ ′           | Season Water Table (C2)                                   |
|               | larks (B1)                                  |                  | Hydrogen           |                          |                      | D                   |               | yfish Burrows (C8)  |
|               | nt Deposits (B2)                            |                  |                    | Rhizosphe                |                      | -                   |               | uration Visible on Aerial Imagery (C9)                    |
| ı —           | oosits (B3)<br>at or Crust (B4)             |                  | Recent Ir          | of Reduce                |                      | ,                   | _             | nted or Stressed Plants (D1)<br>morphic Position (D2)     |
| -             | posits (B5)                                 |                  | Thin Muc           |                          |                      | u 00113 (00         | . —           | C-Neutral Test (D5)                                       |
| I —           | on Visible on Aerial                        | Imagery (B7)     | Gauge or           | ,                        |                      |                     |               | , , , , , , , , , , , , , , , , , , ,                     |
| ı —           | y Vegetated Concav                          |                  | _ •                |                          | ` '                  |                     |               |   |
| Field Obser   | vations:                                    |                  |                    | -                        |                      |                     |               |   |
| Surface Wat   | er Present?                                 | 'es No           | Depth (ir          | nches):                  |                      | _                   |               |   |
| Water Table   |   |                  | Depth (ir          |                          |                      |                     |               |   |
| Saturation P  | resent?                                     | 'es No           | Depth (ir          | nches):                  |                      | _ Wetl              | and Hydrolog  | y Present? Yes No   |
| (includes ca  | oillary fringe)                             |                  |                    |                          |                      |                     | 16 11 - b 1   |   |
| Describe Re   | corded Data (stream                         | n gauge, monito  | oring well, aerial | pnotos, pr               | evious ins           | pections),          | if available: |   |
| Remarks:      |   |                  |                    |                          |                      |                     |               |   |
|               |   |                  |                    |                          |                      |                     |               |   |
| ∣Wetland      | l hydrology a                               | absent.          |                    |                          |                      |                     |               |   |
|               |   |                  |                    |                          |                      |                     |               |   |
|               |   |                  |                    |                          |                      |                     |               |   |

| Project/Site: AEP Fostoria to Lima                                | City              | /County: Bluffto                 | Sampling Date: 2022-07-04                       |  |
|---|-------------------|----------------------------------|---|--|
| Applicant/Owner: AEP  |                   |                                  | State: Ohio                                     | Sampling Point: 1-AI   |
| Investigator(s): Beth Hollinden, Chris Davisson                   | Sec               | tion, Township, Ra               | ange: OH01 T2S R8E S                            | SN2  |
| Landform (hillslope, terrace, etc.): Depression                   |                   | Local relief                     | f (concave, convex, none):                      | Concave  |
| Slope (%): 2 Lat: 40.902124                                       | Lon               | g: <u>-83.900584</u>             | 1   | Datum: WGS 84  |
| Soil Map Unit Name: Blg1B1  |                   |                                  | NWI classific                                   | ation: N/A   |
| Are climatic / hydrologic conditions on the site typical for this | time of year?     | Yes No _                         | (If no, explain in R                            | emarks.)   |
| Are Vegetation, Soil, or Hydrology si                             | ignificantly dist | urbed? Are                       | "Normal Circumstances" p                        | present? Yes No  |
| Are Vegetation, Soil, or Hydrology na                             | aturally probler  | natic? (If n                     | eeded, explain any answe                        | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map                             | showing sa        | mpling point                     | locations, transects                            | , important features, etc.   |
| Hydrophytic Vegetation Present? Yes No                            | o                 |                                  |   |  |
| Hydric Soil Present? Yes No                                       |                   | Is the Sample                    |   | No   |
| Wetland Hydrology Present? Yes No Remarks:                        | <u> </u>          | within a Wetla                   | ind? res  | NO   |
|   |                   |                                  |   |  |
| PEM. ORAM score of 18.  |                   |                                  |   |  |
| <b>VEGETATION</b> – Use scientific names of plants.               |                   |                                  |   |  |
| Tree Stratum (Plot size:30 ft r)                                  |                   | ominant Indicator oecies? Status | Dominance Test work                             |  |
| 1   |                   |                                  | Number of Dominant Sp<br>That Are OBL, FACW, of |  |
| 2.  |                   |                                  | Total Number of Domin                           |  |
| 3   |                   |                                  | Species Across All Stra                         | _  |
| 4   |                   |                                  | Percent of Dominant Sp                          | pecies   |
| 5   |                   |                                  | That Are OBL, FACW, o                           |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       | =T                | otal Cover                       | Prevalence Index work                           | ksheet:  |
| 1   |                   |                                  | Total % Cover of:                               |  |
| 2   |                   |                                  |   | x 1 = 100  |
| 3   |                   |                                  | ·   | x 2 = 0  |
| 4   |                   |                                  |   | x 3 = 0<br>x 4 = 0   |
| 5   | = T               |                                  |   | x 5 = 0  |
| Herb Stratum (Plot size: 5 ft r )                                 |                   |                                  | Column Totals: 100                              | (A) 100 (B)  |
| 1. Typha angustifolia 2. Eleocharis palustris                     | 70                | OBL OBL                          | Dravalance Index                                | = B/A = 1.00   |
|   |                   | ✓ OBL                            | Hydrophytic Vegetation                          |  |
| 3<br>4  |                   |                                  | ✓ 1 - Rapid Test for H                          |  |
| 5.  |                   |                                  | 2 - Dominance Tes                               |  |
| 6   |                   |                                  | ✓ 3 - Prevalence Inde                           |  |
| 7   |                   |                                  | 4 - Morphological A                             | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |
| 8   |                   |                                  | 1   | phytic Vegetation <sup>1</sup> (Explain)                               |
| 9   |                   |                                  |   | (=::   |
| 10  | 100% = T          | otal Cover                       |   | I and wetland hydrology must   |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 10070             | olai Covei                       | be present, unless distu                        | urbed or problematic.  |
| 1   |                   |                                  | Hydrophytic                                     |  |
| 2   |                   | -t-l O-::-:                      | Vegetation Yes                                  | s No   |
| Remarks: (Include photo numbers here or on a separate s           |                   | otal Cover                       |   | <del>_</del>   |
| Hydrophytic vegetation present.                                   | ,                 |                                  |   |  |
|   |                   |                                  |   |  |

SOIL Sampling Point: 1-AI

| Profile Desc               | cription: (Describe                         | to the dep   | th needed to docu      | ment the               | indicator           | or confirm       | n the absence of in | dicators.)  |
|----------------------------|---|--------------|------------------------|------------------------|---------------------|------------------|---------------------|---|
| Depth                      | Matrix                                      |              | Redo                   | x Feature              | es                  |                  |                     |   |
| (inches)                   | Color (moist)                               | %            | Color (moist)          | %                      | Type <sup>1</sup> _ | Loc <sup>2</sup> | Texture             | Remarks   |
| 0-8                        | 10YR 3/2                                    | _ <u>97</u>  | 10YR 5/6               | _ <u>3</u>             | _ <u>C</u>          | <u>M</u>         | Silty Clay Loam     |   |
| 8-20                       | 10YR 5/2                                    | <u>85</u>    | 10YR 5/6               | <u>15</u>              | <u>C</u>            | <u>M</u>         |                     |   |
| -                          |   |              |                        |                        |                     |                  |                     |   |
|                            |   |              |                        |                        |                     |                  |                     |   |
|                            |   |              |                        |                        |                     |                  |                     |   |
| <u> </u>                   |   |              |                        |                        |                     |                  |                     |   |
| <u> </u>                   |   |              |                        |                        |                     |                  |                     |   |
|                            |   |              |                        |                        |                     |                  |                     |   |
|                            |   | pletion, RM  | =Reduced Matrix, M     | S=Maske                | d Sand Gr           | ains.            |                     | =Pore Lining, M=Matrix.                           |
| Hydric Soil                |   |              |                        |                        |                     |                  |                     | Problematic Hydric Soils <sup>3</sup> :           |
| Histosol                   | . ,   |              |                        | -                      | atrix (S4)          |                  | _                   | ie Redox (A16)                                    |
| I —                        | oipedon (A2)<br>stic (A3)                   |              |                        | Redox (S<br>d Matrix ( |                     |                  | Dark Surfac         | nese Masses (F12)                                 |
| ı —                        | en Sulfide (A4)                             |              |                        |                        | ineral (F1)         |                  |                     | w Dark Surface (TF12)                             |
|                            | d Layers (A5)                               |              |                        | -                      | latrix (F2)         |                  |                     | ain in Remarks)                                   |
| 2 cm Mu                    | ıck (A10)                                   |              | Deplete                | ed Matrix              | (F3)                |                  |                     |   |
| ı — ·                      | d Below Dark Surfa                          | ce (A11)     | _                      | Dark Surf              |                     |                  | 2                   |   |
| _                          | ark Surface (A12)                           |              |                        |                        | urface (F7          | )                |                     | ydrophytic vegetation and                         |
|                            | lucky Mineral (S1)<br>เcky Peat or Peat (รี | 33)          | Redox                  | Depression             | ons (F8)            |                  | -                   | Irology must be present,<br>irbed or problematic. |
|                            | Layer (if observed                          |              |                        |                        |                     |                  | diffess diste       | index of problematic.                             |
| l _                        |   |              |                        |                        |                     |                  |                     |   |
|                            | ches):                                      |              |                        |                        |                     |                  | Hydric Soil Pres    | sent? Yes No                                      |
| Remarks:                   | ,   |              |                        |                        |                     |                  |                     |   |
| Hydric                     | soil present                                | •            |                        |                        |                     |                  |                     |   |
| HYDROLO                    | GY  |              |                        |                        |                     |                  |                     |   |
|                            | drology Indicators                          |              |                        |                        |                     |                  |                     |   |
| 1                          |   |              | red; check all that a  | only)                  |                     |                  | Secondary In        | dicators (minimum of two required)                |
|                            | Water (A1)                                  | one is requi | Water-Sta              |                        | /es (RQ)            |                  |                     | Soil Cracks (B6)                                  |
| _                          | iter Table (A2)                             |              | Aquatic F              |                        | , ,                 |                  |                     | Patterns (B10)                                    |
| Saturation                 | , ,   |              | True Aqua              | ,                      | ,                   |                  | _ •                 | son Water Table (C2)                              |
| Water M                    | larks (B1)                                  |              | Hydrogen               |                        | , ,                 |                  |                     | Burrows (C8)                                      |
| Sedime                     | nt Deposits (B2)                            |              |                        |                        | eres on Liv         | ing Roots        | (C3) Saturatio      | n Visible on Aerial Imagery (C9)                  |
| Drift De                   | posits (B3)                                 |              | Presence               | of Reduc               | ed Iron (C          | 4)               | Stunted of          | or Stressed Plants (D1)                           |
| Algal Ma                   | at or Crust (B4)                            |              | Recent Iro             | n Reduc                | tion in Tille       | d Soils (C       | 6) 👱 Geomorp        | phic Position (D2)                                |
| Iron Dep                   | oosits (B5)                                 |              | Thin Mucl              | s Surface              | (C7)                |                  | ✓ FAC-Net           | ıtral Test (D5)                                   |
| ı —                        | on Visible on Aerial                        |              | . —                    |                        |                     |                  |                     |   |
|                            | / Vegetated Conca                           | /e Surface ( | B8) Other (Ex          | plain in R             | emarks)             |                  |                     |   |
| Field Obser                |   |              | 🗸                      |                        |                     |                  |                     |   |
| Surface Wat                |   |              | No Depth (in           |                        |                     |                  |                     |   |
| Water Table                |   |              | No Depth (in           |                        |                     |                  |                     |   |
| Saturation P (includes car | oillary fringe)                             |              | No Depth (in           |                        |                     |                  |                     | esent? Yes No                                     |
| Describe Re                | corded Data (strea                          | n gauge, m   | onitoring well, aerial | photos, p              | revious ins         | spections),      | , if available:     |   |
| Remarks:                   |   |              |                        |                        |                     |                  |                     |   |
| Wetland                    | l hydrology                                 | nresen       | t                      |                        |                     |                  |                     |   |
| ** Ctianic                 | ya.ology                                    | Picacii      |                        |                        |                     |                  |                     |   |
|                            |   |              |                        |                        |                     |                  |                     |   |

| Project/Site: AEP Fostoria to Lima                                | C             | City/Co     | unty:  | Bluffton                 | Sampling Date: 2022-07-04                     |   |
|---|---------------|-------------|--------|--------------------------|---|---|
| Applicant/Owner: AEP  |               |             |        | Sampling Point: 1-Al UPL |   |   |
| Investigator(s): Beth Hollinden, Chris Davisson                   |               | Section     | n, Tow | nship, Raı               | nge: OH01 T2S R8E S                           | SN2   |
| Landform (hillslope, terrace, etc.): Hillslope                    |               |             | L      | ocal relief              | (concave, convex, none):                      | Convex  |
| Slope (%): 1 Lat: 40.90215  | ι             | ong: _      | -83.   | 900527                   |   | Datum: WGS 84   |
| Soil Map Unit Name: Blg1B1  |               |             |        |                          | NWI classific                                 | ation: N/A  |
| Are climatic / hydrologic conditions on the site typical for this |               |             |        |                          |   |   |
| Are Vegetation, Soil, or Hydrology signature.                     | gnificantly d | listurb     | ed?    | Are "                    | Normal Circumstances" p                       | present? Yes No                                       |
| Are Vegetation, Soil, or Hydrology na                             | aturally prot | olemat      | ic?    | (If ne                   | eded, explain any answe                       | rs in Remarks.)                                       |
| SUMMARY OF FINDINGS - Attach site map s                           | howing        | samp        | pling  | point l                  | ocations, transects                           | , important features, etc.                            |
| Hydrophytic Vegetation Present? Yes No                            | , <u> </u>    |             |        |                          |   |   |
| Hydric Soil Present? Yes No                                       |               |             |        | Sampled                  |   |   |
| Wetland Hydrology Present? Yes No                                 | <u>,</u>      |             | withi  | n a Wetlan               | nd? Yes                                       | No  |
| Remarks:  |               |             |        |                          |   |   |
| Upland point for Wetland 1-Al. Mow                                | n grass       | s. Hi       | ighl   | y com                    | pacted soil.                                  |   |
| VEGETATION – Use scientific names of plants.                      |               |             |        |                          |   |   |
| 20 ft :-  |               |             |        | Indicator                | Dominance Test work                           | sheet:  |
| Tree Stratum (Plot size: 30 ft r ) 1.                             | % Cover       |             |        | _Status_                 | Number of Dominant S<br>That Are OBL, FACW, o |   |
| 2   |               |             |        |                          | Total Number of Domin                         |   |
| 3   |               |             |        |                          | Species Across All Stra                       | ta: <u>2</u> (B)                                      |
| 4.       5.   |               |             | _      |                          | Percent of Dominant Sp                        |   |
|   |               |             | I Cove | er                       | That Are OBL, FACW,                           |   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |               |             |        |                          | Prevalence Index wor                          |   |
| 1   |               |             |        |                          | Total % Cover of:                             | $\frac{\text{Multiply by:}}{\text{x 1 = 0}}$          |
| 2   |               |             |        |                          |   | $\begin{array}{c} x & 1 = 0 \\ x & 2 = 0 \end{array}$ |
| 3<br>4  |               |             |        |                          |   | x 3 = 0   |
| 5   |               |             | _      |                          |   | x 4 = 400   |
|   |               |             | I Cove | er                       | UPL species 0                                 | x 5 = 0   |
| Herb Stratum (Plot size: 5 ft r )                                 | 80            |             |        | FACU                     | Column Totals: 100                            | (A) <u>400</u> (B)                                    |
| 1. Festuca rubra 2. Plantago lanceolata                           | 20            |             |        | FACU                     | Prevalence Index                              | = B/A = <u>4.00</u>                                   |
| 3   |               |             |        |                          | Hydrophytic Vegetation                        |   |
| 4   |               |             |        |                          | 1 - Rapid Test for H                          |   |
| 5.  |               |             |        |                          | 2 - Dominance Tes                             | at is >50%  |
| 6.  |               |             |        |                          | 3 - Prevalence Inde                           | ex is ≤3.0 <sup>1</sup>                               |
| 7.  |               |             |        |                          | 4 - Morphological A                           | Adaptations <sup>1</sup> (Provide supporting          |
| 8   |               |             |        |                          | 1   | s or on a separate sheet)                             |
| 9   |               |             |        |                          | Problematic Hydrol                            | phytic Vegetation <sup>1</sup> (Explain)              |
| 10  |               |             |        |                          | <sup>1</sup> Indicators of hydric soi         | I and wetland hydrology must                          |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 100%_=        | = Total     | l Cove | er                       | be present, unless distu                      |   |
| 1   |               |             | —      |                          | Hydrophytic<br>Vegetation                     |   |
| 2   |               | <br>= Total | I Cove | <br>er                   | Present? Yes                                  | s No  |
| Remarks: (Include photo numbers here or on a separate s           |               |             |        |                          | I   |   |
| Hydrophytic vegetation absent.                                    |               |             |        |                          |   |   |
| ,   |               |             |        |                          |   |   |

SOIL Sampling Point: 1-AI UPL

| Depth                  | cription: (Describe<br>Matrix  | to the dept    |                         | x Feature                |                    | or confirm        | the absence   | or indicators.)   |
|------------------------|--------------------------------|----------------|-------------------------|--------------------------|--------------------|-------------------|---------------|---|
| (inches)               | Color (moist)                  | %              | Color (moist)           | <u> %</u>                | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture       | Remarks   |
| 0 - 4                  | 10YR 4/3                       | 100            |                         |                          |                    |                   | Silty Clay    | Highly compacted.   |
| -                      |                                |                |                         |                          |                    |                   |               |   |
|                        |                                |                |                         |                          |                    |                   |               |   |
|                        |                                |                |                         |                          |                    |                   |               |   |
|                        |                                |                |                         |                          |                    |                   |               |   |
|                        |                                |                |                         |                          |                    |                   |               |   |
|                        |                                |                |                         |                          |                    |                   |               |   |
|                        |                                |                |                         |                          |                    |                   |               |   |
| <sup>1</sup> Type: C=C | oncentration, D=De Indicators: | pletion, RM=   | Reduced Matrix, MS      | S=Masked                 | d Sand Gra         | ains.             |               | : PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> : |
| Histosol               | I (A1)                         |                | Sandy (                 | Gleyed Ma                | atrix (S4)         |                   |               | Prairie Redox (A16)   |
| _                      | pipedon (A2)                   |                |                         | Redox (S5                |                    |                   | _             | Surface (S7)  |
| Black H                | istic (A3)                     |                |                         | d Matrix (S              | ,                  |                   | _             | anganese Masses (F12)   |
|                        | en Sulfide (A4)                |                |                         |                          | neral (F1)         |                   |               | Shallow Dark Surface (TF12)   |
|                        | d Layers (A5)<br>uck (A10)     |                | _ ′                     | Gleyed Ma                | , ,                |                   | Other         | (Explain in Remarks)  |
| _                      | d Below Dark Surfac            | ce (A11)       |                         | d Matrix (<br>Dark Surfa |                    |                   |               |   |
|                        | ark Surface (A12)              | 50 (7111)      | _                       |                          | ırface (F7)        |                   | 3Indicators   | of hydrophytic vegetation and   |
| Sandy N                | Mucky Mineral (S1)             |                | Redox [                 | Depressio                | ns (F8)            |                   | wetland       | d hydrology must be present,  |
|                        | ucky Peat or Peat (S           | -              |                         |                          |                    |                   | unless        | disturbed or problematic.   |
|                        | Layer (if observed)            | ):             |                         |                          |                    |                   |               |   |
|                        | ompacted                       |                | _                       |                          |                    |                   | Hydric Soil   | Present? Yes No   |
| Depth (in              | ches): <u>4</u>                |                |                         |                          |                    |                   | 1.,,          |   |
|                        |                                |                |                         |                          |                    |                   |               |   |
| HYDROLO                |                                |                |                         |                          |                    |                   |               |   |
| •                      | drology Indicators             |                |                         |                          |                    |                   |               |   |
|                        | cators (minimum of             | one is require |                         |                          |                    |                   |               | ary Indicators (minimum of two required)                                |
|                        | Water (A1)                     |                | Water-Sta               |                          | , ,                |                   |               | face Soil Cracks (B6)   |
| High wa                | ater Table (A2)                |                | Aquatic Fa<br>True Aqua | ,                        | ,                  |                   |               | nage Patterns (B10)   |
|                        | Marks (B1)                     |                | Hydrogen                |                          |                    |                   |               | ·Season Water Table (C2)<br>yfish Burrows (C8)                          |
| _                      | nt Deposits (B2)               |                | Oxidized F              |                          | , ,                | ng Roots          |               | uration Visible on Aerial Imagery (C9)                                  |
|                        | posits (B3)                    |                | Presence                |                          |                    |                   |               | nted or Stressed Plants (D1)  |
| Algal Ma               | at or Crust (B4)               |                | Recent Iro              | n Reducti                | on in Tilled       | Soils (Ce         | Geo           | emorphic Position (D2)  |
| Iron Dep               | posits (B5)                    |                | Thin Muck               | Surface (                | (C7)               |                   | FAC           | C-Neutral Test (D5)   |
| Inundati               | ion Visible on Aerial          | Imagery (B7    | ) Gauge or '            | Well Data                | (D9)               |                   |               |   |
| Sparsel                | y Vegetated Concav             | e Surface (B   | 8) Other (Exp           | olain in Re              | emarks)            |                   |               |   |
| Field Obser            |                                |                | <b>4</b>                |                          |                    |                   |               |   |
| Surface Wat            |                                |                | lo Depth (in            |                          |                    |                   |               |   |
| Water Table            |                                |                | lo Depth (in            |                          |                    |                   |               |   |
|                        | pillary fringe)                |                | lo Depth (in            |                          |                    |                   |               | y Present? Yes No   |
| Describe Re            | corded Data (strean            | ii gauge, moi  | moning well, aerial     | priotos, pr              | evious iris        | pections),        | ii avaliable: |   |
| Remarks:               |                                |                |                         |                          |                    |                   |               |   |
| Wetland                | d hydrology                    | absent.        |                         |                          |                    |                   |               |   |
|                        | . 37                           |                |                         |                          |                    |                   |               |   |
|                        |                                |                |                         |                          |                    |                   |               |   |

| Project/Site: AEP Fostoria to Lima             |                   | c               | City/Co | unty: E        | Bluffton,    | Sampling Date: _                         | 2022-07-04  |                |
|--|-------------------|-----------------|---------|----------------|--------------|--|---|----------------|
| Applicant/Owner: AEP                           |                   |                 |         |                |              | State: Ohio                              | Sampling Point:                                   | 1-AJ           |
| Investigator(s): Beth Hollinden, Chris         | Davisson          | 8               | Section | n, Town        | ship, Ran    | ge: OH01 T2S R8E S                       | SN20  |                |
| Landform (hillslope, terrace, etc.): Depres    | sion Toeslor      | ре              |         | Lo             | cal relief ( | concave, convex, none):                  | Concave   |                |
| Slope (%): 2 Lat: 40.859632                    | 2                 | ι               | Long: _ | -83.9          | 75946        |  | Datum: WGS 8                                      | 4              |
| Soil Map Unit Name: SrA                        |                   |                 |         |                |              | NWI classific                            | ation: R4SBC                                      |                |
| Are climatic / hydrologic conditions on the si | te typical for th | is time of yea  | ar? Ye  | s              | No           | (If no, explain in Re                    | emarks.)  |                |
| Are Vegetation, Soil, or Hyd                   | rology            | significantly o | disturb | ed?            | Are "N       | Normal Circumstances" p                  | resent? Yes                                       | No             |
| Are Vegetation, Soil, or Hyd                   | rology            | naturally prob  | blemat  | ic?            | (If nee      | eded, explain any answer                 | rs in Remarks.)                                   |                |
| SUMMARY OF FINDINGS - Attac                    | h site map        | showing         | sam     | oling          | point lo     | cations, transects                       | , important fe                                    | atures, etc.   |
| Hydrophytic Vegetation Present?                | YesN              | No              |         |                |              |  |   |                |
| Hydric Soil Present?                           | Yes N             | No              |         |                | Sampled      |  |   |                |
|  | Yes N             | No              |         | within         | a Wetlan     | d? Yes                                   | No  | -              |
| Remarks:                                       |                   |                 |         |                |              |  |   |                |
| PEM. ORAM score of 17.                         |                   |                 |         |                |              |  |   |                |
| VEGETATION – Use scientific nam                | ace of plants     | <u> </u>        |         |                |              |  |   |                |
| - Ose scientific fram                          | les of plants     |                 | Domi    | nant In        | dicator      | Dominance Test work                      | sheet.  |                |
| Tree Stratum (Plot size: 30 ft r               | _)                | % Cover         |         |                |              | Number of Dominant Sp                    |   |                |
| 1  |                   |                 |         |                |              | That Are OBL, FACW, o                    |   | (A)            |
| 2  |                   |                 |         |                |              | Total Number of Domina                   |   |                |
| 3  |                   |                 |         |                |              | Species Across All Stra                  | ta: <u>1</u>                                      | (B)            |
| 4  |                   |                 |         |                | ——           | Percent of Dominant Sp                   |   |                |
| 5  |                   | :               | = Total | — –<br>I Cover |              | That Are OBL, FACW, o                    | or FAC: 100                                       | (A/B)          |
| Sapling/Shrub Stratum (Plot size: 15 ft        | r)                |                 |         |                |              | Prevalence Index work                    |   |                |
| 1  |                   |                 |         |                |              | Total % Cover of:                        |   | ly by:         |
| 2  |                   |                 |         |                |              |  | x 1 = 0   | <u> </u>       |
| 3  |                   |                 |         |                |              |  | x = 200<br>x = 3 = 0                              | <del></del>    |
| 4  |                   |                 |         |                | <del></del>  |  | $\begin{array}{c} x 3 = 0 \\ x 4 = 0 \end{array}$ |                |
| 5  |                   |                 |         | — –<br>I Cover |              | UPL species 0                            |   |                |
| Herb Stratum (Plot size: 5 ft r                | _)                |                 |         |                |              | Column Totals: 100                       | (A) 200   | 0 (B)          |
| 1. Phalaris arundinacea                        |                   | _ 100           |         | <del>-</del>   | ACW          |  | 2.00  |                |
| 2  |                   |                 |         | — -            | —— ļ         | Prevalence Index  Hydrophytic Vegetation |   |                |
| 3  |                   |                 |         |                |              | ✓ 1 - Rapid Test for H                   |   | ation          |
| 4.       5.                                    |                   |                 |         |                | —— I         | ✓ 2 - Dominance Tes                      |   | adon           |
| 6.   |                   |                 |         |                |              | ✓ 3 - Prevalence Inde                    |   |                |
| 7.   |                   |                 |         |                |              | 4 - Morphological A                      | daptations¹ (Prov                                 | ide supporting |
| 8.   |                   |                 |         |                |              |  | s or on a separate                                | ·              |
| 9  |                   |                 |         |                |              | Problematic Hydron                       | ohytic Vegetation                                 | (Explain)      |
| 10   |                   |                 |         |                |              | <sup>1</sup> Indicators of hydric soil   | and wetland hyd                                   | rology must    |
| Woody Vine Stratum (Plot size: 30 ft r         | \                 | 100%            | = Total | l Cover        | ·            | be present, unless distu                 |   |                |
| 1. Convolvulus arvensis                        |                   | 10              | ~       | ,              | İ            | Undranbutia                              |   |                |
| 2  |                   |                 |         |                |              | Hydrophytic<br>Vegetation                |   |                |
|  |                   | 10% :           | = Total | l Cover        |              | Present? Yes                             | s No  |                |
| Remarks: (Include photo numbers here or        | on a separate     | sheet.)         |         |                |              |  |   |                |
| Hydrophytic vegetation p                       | resent.           |                 |         |                |              |  |   |                |
|  |                   |                 |         |                |              |  |   |                |

SOIL Sampling Point: 1-AJ

| Profile Desc   | ription: (Describe                    | to the dept   | th needed to docur         | nent the               | indicator          | or confire        | n the absence of in | ndicators.)   |
|----------------|---------------------------------------|---------------|----------------------------|------------------------|--------------------|-------------------|---------------------|---|
| Depth          | Matrix                                |               |                            | x Featur               |                    |                   |                     |   |
| (inches)       | Color (moist)                         | %             | Color (moist)              | %                      | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture             | Remarks   |
| 0-6            | 10YR 4/2                              | 95            | 10YR 5/6                   | 5                      | _ <u>C</u>         | <u>M</u>          | Silty Clay          |   |
| 6 - 20         | 10YR 6/2                              | 95            | 10YR 5/6                   | 5                      | С                  | М                 | Silty Clay          |   |
|                |                                       |               | -                          |                        |                    |                   |                     |   |
|                |                                       |               |                            |                        |                    |                   |                     |   |
|                |                                       |               |                            |                        |                    |                   |                     |   |
| <u> </u>       |                                       |               |                            |                        |                    |                   |                     |   |
| <u> </u>       |                                       |               |                            |                        |                    |                   |                     |   |
|                |                                       |               |                            |                        |                    |                   |                     |   |
|                |                                       | oletion, RM=  | Reduced Matrix, MS         | S=Maske                | ed Sand Gr         | ains.             |                     | =Pore Lining, M=Matrix.                               |
| Hydric Soil    |                                       |               |                            |                        |                    |                   |                     | Problematic Hydric Soils <sup>3</sup> :               |
| Histosol       | . ,                                   |               |                            | -                      | latrix (S4)        |                   | _                   | rie Redox (A16)                                       |
| I —            | oipedon (A2)<br>stic (A3)             |               |                            | Redox (S<br>d Matrix ( |                    |                   | Dark Surfac         | nese Masses (F12)                                     |
| ı —            | en Sulfide (A4)                       |               |                            |                        | ineral (F1)        |                   |                     | ow Dark Surface (TF12)                                |
|                | d Layers (A5)                         |               |                            |                        | latrix (F2)        |                   |                     | lain in Remarks)                                      |
| ı —            | ıck (A10)                             |               |                            | d Matrix               | . ,                |                   |                     |   |
| ı — ·          | d Below Dark Surfac                   | ce (A11)      | _                          |                        | face (F6)          |                   | 31                  | and an electric constant are used                     |
| _              | ark Surface (A12)  Mucky Mineral (S1) |               |                            | d Dark S<br>Depressi   | urface (F7         | )                 |                     | ydrophytic vegetation and<br>drology must be present, |
| ı — ·          | icky Peat or Peat (S                  | 3)            | Redox i                    | Debiessi               | ons (Fo)           |                   | ,                   | urbed or problematic.                                 |
|                | Layer (if observed)                   |               |                            |                        |                    |                   |                     | and or promoting.                                     |
|                |                                       |               |                            |                        |                    |                   |                     |   |
| Depth (in      | ches):                                |               |                            |                        |                    |                   | Hydric Soil Pres    | sent? Yes No  |
| Remarks:       |                                       |               |                            |                        |                    |                   |                     |   |
| Lludria        | acil procent                          |               |                            |                        |                    |                   |                     |   |
| mydric :       | soil present.                         |               |                            |                        |                    |                   |                     |   |
|                |                                       |               |                            |                        |                    |                   |                     |   |
|                |                                       |               |                            |                        |                    |                   |                     |   |
| <b>HYDROLO</b> | GY                                    |               |                            |                        |                    |                   |                     |   |
| Wetland Hy     | drology Indicators                    | :             |                            |                        |                    |                   |                     |   |
| Primary India  | cators (minimum of                    | one is requir | ed; check all that ap      | ply)                   |                    |                   | Secondary In        | dicators (minimum of two required)                    |
| ✓ Surface      | Water (A1)                            |               | Water-Sta                  | ined Lea               | ves (B9)           |                   | Surface             | Soil Cracks (B6)                                      |
| ✓ High Wa      | ater Table (A2)                       |               | Aquatic Fa                 | auna (B1               | 3)                 |                   | Drainage            | e Patterns (B10)                                      |
| ✓ Saturation   | on (A3)                               |               | True Aqua                  | tic Plant              | s (B14)            |                   | Dry-Seas            | son Water Table (C2)                                  |
| Water M        | larks (B1)                            |               | Hydrogen                   | Sulfide (              | Odor (C1)          |                   | Crayfish            | Burrows (C8)  |
|                | nt Deposits (B2)                      |               | Oxidized F                 | -                      |                    | -                 |                     | on Visible on Aerial Imagery (C9)                     |
|                | posits (B3)                           |               | Presence                   |                        | •                  | •                 | _                   | or Stressed Plants (D1)                               |
| -              | at or Crust (B4)                      |               | Recent Iro                 |                        |                    | a Solis (C        |                     | phic Position (D2)                                    |
| I —            | oosits (B5)<br>on Visible on Aerial   | Imagery (B7   | Thin Muck<br>') Gauge or ' |                        | , ,                |                   | V PAC-Net           | utral Test (D5)                                       |
| ı —            | / Vegetated Concav                    |               |                            |                        |                    |                   |                     |   |
| Field Obser    |                                       | 0 0011000 (2  |                            |                        | omarko,            |                   |                     |   |
| Surface Wat    |                                       | es 🗸          | No Depth (in               | ches): 1               |                    |                   |                     |   |
| Water Table    |                                       |               | No Depth (in               |                        |                    | _                 |                     |   |
| Saturation P   |                                       |               | No Depth (in               |                        |                    | —   Wet           | land Hydrology Pre  | esent? Yes No   |
| (includes cap  | oillary fringe)                       |               |                            |                        |                    |                   |                     |   |
| Describe Re    | corded Data (strean                   | n gauge, mo   | nitoring well, aerial      | photos, p              | revious ins        | spections),       | , if available:     |   |
| Demodes        |                                       |               |                            |                        |                    |                   |                     |   |
| Remarks:       |                                       |               |                            |                        |                    |                   |                     |   |
| Wetland        | l hydrology                           | present       | t.                         |                        |                    |                   |                     |   |
|                |                                       |               |                            |                        |                    |                   |                     |   |
|                |                                       |               |                            |                        |                    |                   |                     |   |

| Project/Site: AEP Fostoria to Lima                              | C               | City/Cour | nty: Bluffton  | ı/Allen  | Sampling Date: 2022-07-04                       |
|---|-----------------|-----------|----------------|--|---|
| Applicant/Owner: AEP  |                 |           |                | State: Ohio  | Sampling Point: 1-AJ UPL                        |
| Investigator(s): Beth Hollinden, Chris Davisson                 | 8               | Section,  | SN20           |  |   |
|   |                 |           |                | (concave, convex, none):   |   |
| Slope (%): 0 Lat: 40.85957                                      | L               | _ong:8    | 33.975992      |  | Datum: WGS 84                                   |
| Soil Map Unit Name: SrA   |                 |           |                | NWI classific  | ation: N/A                                      |
| Are climatic / hydrologic conditions on the site typical for th | is time of yea  | r? Yes    | No _           | (If no, explain in R   | emarks.)  |
| Are Vegetation, Soil, or Hydrology                              | significantly d | listurbed | ? Are "        | 'Normal Circumstances" p   | oresent? Yes No                                 |
| Are Vegetation, Soil, or Hydrology                              | naturally prob  | olematic? | ? (If ne       | eeded, explain any answer  | rs in Remarks.)                                 |
| SUMMARY OF FINDINGS - Attach site map                           | showing         | sampl     | ing point le   | ocations, transects  | , important features, etc.                      |
| Hydrophytic Vegetation Present? Yes 1                           | No              |           |                |  |   |
| Hydric Soil Present? Yes N                                      |                 |           | the Sampled    |  |   |
| Wetland Hydrology Present? Yes 1                                | No              | wi        | ithin a Wetlan | nd? Yes  | No  |
| Remarks:  |                 |           |                |  |   |
| Upland point for Wetland 1-AJ.                                  |                 |           |                |  |   |
| VEGETATION – Use scientific names of plants                     |                 |           |                |  |   |
| VEGETATION – Ose scientific flames of plants                    |                 | Domina    | int Indicator  | Dominance Test work  | shoot:  |
| Tree Stratum (Plot size: 30 ft r )                              |                 |           | Status         | Number of Dominant Sp  |   |
| 1   |                 |           |                | That Are OBL, FACW, o  |   |
| 2   |                 |           |                | Total Number of Domina   | ant   |
| 3   |                 |           |                | Species Across All Stra  | ta: <u>1</u> (B)                                |
| 4   |                 |           |                | Percent of Dominant Sp   |   |
| 5   |                 |           |                | That Are OBL, FACW, o  | or FAC: $0$ (A/B)                               |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                     |                 | - Total C | ovei           | Prevalence Index work  | ksheet:   |
| 1   |                 |           |                | Total % Cover of:  |   |
| 2   |                 |           |                | 1  | x 1 = 0   |
| 3   |                 |           |                | · <del>.</del>   | $\times 2 = \frac{0}{2}$                        |
| 4   |                 |           |                |  | x 3 = 0   |
| 5   |                 |           |                | l  | x 4 = 360<br>x 5 = 0                            |
| Herb Stratum (Plot size: 5 ft r )                               | ——              | = Total C | Cover          | UPL species 0 Column Totals: 90                                    | (A) = 360 (B)                                   |
| 1. Festuca rubra  | 70              |           | FACU           | Column Totals.   | (A) (B)   |
| 2. Cirsium arvense  | _ 10            |           | FACU_          | Prevalence Index   | = B/A = 4.00                                    |
| 3. Pastinaca sativa   | _ 10            |           |                | Hydrophytic Vegetation   |   |
| 4. Solidago canadensis  | _ 10            |           | _ FACU_        | 1 - Rapid Test for H   |   |
| 5   |                 |           |                | 2 - Dominance Tes  |   |
| 6   |                 |           |                | 3 - Prevalence Inde  | ex is ≤3.0°<br>Adaptations¹ (Provide supporting |
| 7   |                 |           |                | data in Remarks  | s or on a separate sheet)                       |
| 8   |                 |           |                | Problematic Hydror   | phytic Vegetation <sup>1</sup> (Explain)        |
| 9<br>10   |                 |           |                |  |   |
|   | 100%            | = Total C | Cover          | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu | l and wetland hydrology must                    |
| Woody Vine Stratum (Plot size: 30 ft r )                        |                 |           |                | be present, unless distu   | irbed or problematic.                           |
| 1. Convolvulus arvensis   | _ 10            |           |                | Hydrophytic  |   |
| 2   | 10%             |           |                | Vegetation<br>  Present? Yes                                       | s No  |
| Remarks: (Include photo numbers here or on a separate           |                 | = Total C | Cover          |  |   |
|   | sileet.)        |           |                |  |   |
| Hydrophytic vegetation absent.                                  |                 |           |                |  |   |
|   |                 |           |                |  |   |

SOIL Sampling Point: 1-AJ UPL

| Profile Desc                  | ription: (Describe         | to the depth   | needed to docu       | ment the i                | ndicator          | or confirn        | n the absence of i       | ndicators.)                             |
|-------------------------------|----------------------------|----------------|----------------------|---------------------------|-------------------|-------------------|--------------------------|---|
| Depth                         | Matrix                     |                |                      | ox Feature                | s                 |                   |                          |   |
| (inches)                      | Color (moist)              | %              | Color (moist)        | %                         | Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                  | Remarks                                 |
| 0 - 20                        | 10YR 6/3                   | _ <u>100</u>   |                      |                           |                   |                   | Silty Clay               |   |
|                               |                            |                |                      |                           |                   |                   |                          |   |
| -                             |                            |                |                      |                           |                   |                   |                          |   |
|                               |                            |                |                      |                           |                   |                   |                          |   |
|                               |                            |                |                      |                           |                   |                   |                          |   |
|                               |                            |                |                      |                           |                   |                   |                          |   |
|                               |                            |                |                      |                           |                   |                   |                          |   |
|                               |                            |                |                      |                           |                   |                   |                          |   |
| <sup>1</sup> Type: C=Co       | oncentration, D=De         | pletion, RM=R  | Reduced Matrix, N    | IS=Masked                 | Sand Gra          | ains.             | <sup>2</sup> Location: P | L=Pore Lining, M=Matrix.                |
| Hydric Soil I                 | Indicators:                |                |                      |                           |                   |                   | Indicators for           | Problematic Hydric Soils <sup>3</sup> : |
| Histosol                      | (A1)                       |                | Sandy                | Gleyed Ma                 | atrix (S4)        |                   | Coast Prai               | irie Redox (A16)                        |
|                               | oipedon (A2)               |                |                      | Redox (S5                 |                   |                   | Dark Surfa               | • •                                     |
| Black His                     | , ,                        |                |                      | ed Matrix (S              | ,                 |                   |                          | anese Masses (F12)                      |
|                               | n Sulfide (A4)             |                |                      | Mucky Mir                 |                   |                   |                          | ow Dark Surface (TF12)                  |
|                               | d Layers (A5)<br>ick (A10) |                | _ ′                  | Gleyed Ma<br>ed Matrix (I | , ,               |                   | Other (Exp               | plain in Remarks)                       |
| _                             | d Below Dark Surfac        | ce (A11)       |                      | Dark Surfa                | -                 |                   |                          |   |
|                               | ark Surface (A12)          | 50 (****)      | _                    | ed Dark Su                |                   | )                 | 3Indicators of I         | hydrophytic vegetation and              |
| _                             | lucky Mineral (S1)         |                |                      | Depression                | , ,               |                   |                          | drology must be present,                |
| 5 cm Mu                       | icky Peat or Peat (S       | 33)            |                      |                           |                   |                   | unless dist              | turbed or problematic.                  |
| Restrictive L                 | _ayer (if observed)        | ):             |                      |                           |                   |                   |                          |   |
| Type:                         |                            |                | _                    |                           |                   |                   | Undria Cail Dua          | No. V                                   |
| Depth (inc                    | ches):                     |                |                      |                           |                   |                   | Hydric Soil Pre          | esent? Yes No                           |
| Remarks:                      |                            |                |                      |                           |                   |                   |                          |   |
| Lydric                        | coil abcont                |                |                      |                           |                   |                   |                          |   |
| ligances                      | soil absent.               |                |                      |                           |                   |                   |                          |   |
|                               |                            |                |                      |                           |                   |                   |                          |   |
|                               |                            |                |                      |                           |                   |                   |                          |   |
| HYDROLO                       | GY                         |                |                      |                           |                   |                   |                          |   |
| Wetland Hyd                   | drology Indicators         | :              |                      |                           |                   |                   |                          |   |
| Primary Indic                 | cators (minimum of         | one is require | d; check all that a  | pply)                     |                   |                   | Secondary I              | ndicators (minimum of two required)     |
| Surface                       | Water (A1)                 |                |                      | ained Leav                | ` '               |                   | Surface                  | Soil Cracks (B6)                        |
| High Wa                       | iter Table (A2)            |                | Aquatic F            | auna (B13                 | )                 |                   | Drainag                  | e Patterns (B10)                        |
| Saturation                    | on (A3)                    |                | True Aqu             | atic Plants               | (B14)             |                   | Dry-Sea                  | ason Water Table (C2)                   |
| Water M                       | arks (B1)                  |                | Hydroger             | Sulfide O                 | dor (C1)          |                   | Crayfish                 | n Burrows (C8)                          |
| Sedimen                       | nt Deposits (B2)           |                |                      | Rhizosphe                 |                   | -                 | (C3) Saturati            | on Visible on Aerial Imagery (C9)       |
| Drift Dep                     | oosits (B3)                |                | _                    | of Reduce                 | ,                 | ,                 | _                        | or Stressed Plants (D1)                 |
|                               | at or Crust (B4)           |                | _                    | on Reducti                |                   | d Soils (C        | <i>-</i>                 | rphic Position (D2)                     |
| 1 —                           | oosits (B5)                |                | Thin Muc             | ,                         |                   |                   | FAC-Ne                   | eutral Test (D5)                        |
| I —                           | on Visible on Aerial       |                |                      |                           |                   |                   |                          |   |
|                               | Vegetated Concav           | e Surface (B8  | B) Other (Ex         | plain in Re               | marks)            |                   |                          |   |
| Field Observ                  |                            |                | <b>V</b>             |                           |                   |                   |                          |   |
| Surface Water                 |                            |                | Depth (ir            |                           |                   |                   |                          |   |
| Water Table                   |                            |                | Depth (ir            |                           |                   |                   |                          |   |
| Saturation Pr                 |                            | Yes No         | Depth (ir            | nches):                   |                   | _   Wetl          | and Hydrology Pr         | resent? Yes No                          |
| (includes cap<br>Describe Red | corded Data (strean        | n gauge, mon   | itoring well, aerial | photos, pr                | evious ins        | pections),        | if available:            |   |
|                               |                            |                |                      |                           |                   |                   |                          |   |
| Remarks:                      |                            |                |                      |                           |                   |                   |                          |   |
| Wetland                       | l hydrology                | absent.        |                      |                           |                   |                   |                          |   |
|                               | ,                          |                |                      |                           |                   |                   |                          |   |
|                               |                            |                |                      |                           |                   |                   |                          |   |

| Project/Site: AEP Fostoria to Lima                       |              |                      | City/Co                                     | ounty: Bluffto | Sampling Date: 2022-07-0                      |  |  |  |
|--|--------------|----------------------|---|----------------|---|--|--|--|
| Applicant/Owner: AEP                                     |              |                      |   |                | State: Ohio                                   | Sampling Point: 1-AK                                   |  |  |
| Investigator(s): Beth Hollinden, Chris                   | Davisso      | n                    | Section, Township, Range: OH01 T2S R8E SN19 |                |   |  |  |  |
| Landform (hillslope, terrace, etc.): Depres              | ssion Toe    |                      |   |                | f (concave, convex, none):                    | _  |  |  |
| Slope (%): 2 Lat: 40.85878                               |              |                      | Long: _                                     | -83.977388     | 3   | Datum: WGS 84  |  |  |
| Soil Map Unit Name: SrA                                  |              |                      |   |                | NWI classific                                 | ation: R4SBC   |  |  |
| Are climatic / hydrologic conditions on the s            | site typical | for this time of yea | ar? Ye                                      |                |   |  |  |  |
| Are Vegetation, Soil, or Hyd                             | drology      | significantly        | disturb                                     | ed? Are        | "Normal Circumstances" p                      | present? Yes No  |  |  |
| Are Vegetation, Soil, or Hyd                             | drology      | naturally pro        | blemat                                      | ic? (If n      | needed, explain any answe                     | rs in Remarks.)  |  |  |
| SUMMARY OF FINDINGS - Atta                               | ch site r    | map showing          | samı  | pling point    | locations, transects                          | , important features, etc                              |  |  |
| Hydrophytic Vegetation Present?                          | Yes          | No                   |   |                |   |  |  |  |
| , ,  | Yes          | No                   |   | Is the Sample  |   |  |  |  |
|  | Yes          | No                   |   | within a Wetla | and? Yes                                      | No   |  |  |
| Remarks:   |              |                      |   |                |   |  |  |  |
| PEM. ORAM score of 17.                                   |              |                      |   |                |   |  |  |  |
| VEGETATION – Use scientific nar                          | nes of pl    | ants.                |   |                |   |  |  |  |
| 00.5   | · ·          | Absolute             | Domi  | nant Indicator | Dominance Test work                           | sheet:   |  |  |
| Tree Stratum (Plot size:30 ft r                          |              |                      |   | ies? Status    | Number of Dominant S<br>That Are OBL, FACW,   |  |  |  |
| 2  |              |                      |   |                | Total Number of Domin                         | ant  |  |  |
| 3  |              |                      |   |                | . Species Across All Stra                     | ta: <u>1</u> (B)                                       |  |  |
| 4<br>5   |              |                      |   |                | Percent of Dominant Sp<br>That Are OBL, FACW, |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft                  | r            | ,                    | = Tota                                      | l Cover        | Prevalence Index wor                          | kehoot:  |  |  |
| 1  |              |                      |   |                | Total % Cover of:                             |  |  |  |
| 2.   |              |                      |   |                | .   | x 1 = 0  |  |  |
| 3.   |              |                      |   |                |   | x 2 = 200  |  |  |
| 4.   |              |                      |   |                |   | x 3 = 0  |  |  |
| 5  |              |                      |   |                | FACU species 0                                | x 4 = 0  |  |  |
| - 6  |              |                      | = Tota                                      | l Cover        | UPL species 0                                 | x 5 = 0  |  |  |
| Herb Stratum (Plot size: 5 ft r  1. Phalaris arundinacea | )            | 100                  | _   | FACW           | Column Totals: 100                            | (A) <u>200</u> (B)                                     |  |  |
| 2  |              |                      |   |                | . Prevalence Index                            | = B/A = 2.00   |  |  |
| 3  |              |                      |   |                | Hydrophytic Vegetation                        |  |  |  |
| 4  |              |                      |   |                | ✓ 1 - Rapid Test for I                        | Hydrophytic Vegetation                                 |  |  |
| 5  |              |                      |   |                | 2 - Dominance Tes                             | it is >50%   |  |  |
| 6  |              |                      |   |                | ✓ 3 - Prevalence Inde                         | ex is ≤3.0 <sup>1</sup>                                |  |  |
| 7.   |              |                      |   |                | 4 - Morphological A                           | Adaptations <sup>1</sup> (Provide supporting           |  |  |
| 8  |              |                      |   |                | 1   | s or on a separate sheet) phytic Vegetation¹ (Explain) |  |  |
| 9  |              |                      |   |                | .   Problematic Hydro                         | phytic vegetation (Explain)                            |  |  |
| 10   |              |                      |   |                | Indicators of hydric soi                      | il and wetland hydrology must                          |  |  |
| Woody Vine Stratum (Plot size: 30 ft r                   |              | 100%                 | = Tota                                      | l Cover        | be present, unless distu                      |  |  |  |
| 1. Convolvulus arvensis                                  |              | <sup>′</sup> 10      | ~   | •              | Hydrophytic                                   |  |  |  |
| 2.   |              |                      |   |                | Vegetation                                    | <b>V</b>   |  |  |
|  |              |                      | = Tota                                      | l Cover        | Present? Ye                                   | s No   |  |  |
| Remarks: (Include photo numbers here of                  | or on a sep  | arate sheet.)        |   |                |   |  |  |  |
| Hydrophytic vegetation p                                 | resen        | t.                   |   |                |   |  |  |  |

SOIL Sampling Point: 1-AK

| Profile Desc                 | ription: (Describe                     | to the depth   | needed to docum        | nent the                 | indicator          | or confirm        | n the absence of i        | ndicators.)                             |
|------------------------------|--|----------------|------------------------|--------------------------|--------------------|-------------------|---------------------------|---|
| Depth                        | Matrix                                 |                |                        | x Feature                |                    |                   |                           | •                                       |
| (inches)                     | Color (moist)                          | %              | Color (moist)          | %                        | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                   | Remarks                                 |
| 0 - 20                       | 10YR 5/2                               | 95             | 10YR 5/6               | 5                        | <u>C</u>           | <u>M</u>          | Silty Clay                |   |
| -                            |  |                |                        |                          |                    |                   |                           |   |
|                              |  |                |                        |                          |                    |                   |                           |   |
|                              |  |                |                        |                          |                    |                   |                           |   |
| l ——                         |  |                |                        |                          | - ——               |                   |                           |   |
|                              |  |                |                        |                          |                    |                   |                           |   |
|                              |  |                |                        |                          |                    |                   |                           |   |
| -                            |  |                |                        |                          |                    |                   |                           |   |
| <sup>1</sup> Type: C=C       | oncentration, D=Dep                    | oletion. RM=F  | Reduced Matrix, MS     | S=Maske                  | d Sand Gr          | ains.             | <sup>2</sup> Location: Pl | L=Pore Lining, M=Matrix.                |
| Hydric Soil                  |  | ,              | ,                      |                          |                    |                   |                           | Problematic Hydric Soils <sup>3</sup> : |
| Histosol                     | (A1)                                   |                | Sandy C                | Sleyed Ma                | atrix (S4)         |                   | Coast Prai                | irie Redox (A16)                        |
| Histic E                     | oipedon (A2)                           |                | Sandy F                | Redox (S                 | 5)                 |                   | Dark Surfa                | ace (S7)                                |
| ı —                          | istic (A3)                             |                |                        | Matrix (                 | ,                  |                   |                           | anese Masses (F12)                      |
|                              | en Sulfide (A4)                        |                |                        | -                        | neral (F1)         |                   |                           | ow Dark Surface (TF12)                  |
| I —                          | d Layers (A5)                          |                |                        | -                        | atrix (F2)         |                   | Other (Exp                | plain in Remarks)                       |
| _                            | ıck (A10)<br>d Below Dark Surfac       | o (Λ11)        | ✓ Deplete              | d Matrix (<br>Dark Surfa |                    |                   |                           |   |
| ı —                          | ark Surface (A12)                      | æ (A11)        | _                      |                          | urface (F7         | )                 | 3Indicators of h          | hydrophytic vegetation and              |
| _                            | flucky Mineral (S1)                    |                |                        | Depressio                | ,                  | ,                 |                           | drology must be present,                |
| ı —                          | ıcky Peat or Peat (S                   | 3)             | _                      | ·                        | ` '                |                   |                           | turbed or problematic.                  |
| Restrictive                  | Layer (if observed)                    | :              |                        |                          |                    |                   |                           |   |
| Type:                        |  |                | _                      |                          |                    |                   | Hadria Call Bro           |   |
| Depth (in                    | ches):                                 |                | _                      |                          |                    |                   | Hydric Soil Pre           | esent? Yes No                           |
| Remarks:                     |  |                |                        |                          |                    |                   |                           |   |
| Hydric                       | soil present.                          |                |                        |                          |                    |                   |                           |   |
| Tiyunc :                     | son present.                           |                |                        |                          |                    |                   |                           |   |
|                              |  |                |                        |                          |                    |                   |                           |   |
|                              |  |                |                        |                          |                    |                   |                           |   |
| HYDROLO                      | GY                                     |                |                        |                          |                    |                   |                           |   |
| Wetland Hy                   | drology Indicators:                    | :              |                        |                          |                    |                   |                           |   |
| Primary India                | cators (minimum of                     | one is require | d; check all that ap   | ply)                     |                    |                   | Secondary I               | ndicators (minimum of two required)     |
| ✓ Surface                    | Water (A1)                             |                | Water-Stai             | ned Leav                 | res (B9)           |                   | Surface                   | Soil Cracks (B6)                        |
| ✓ High Wa                    | ater Table (A2)                        |                | Aquatic Fa             | iuna (B13                | 3)                 |                   | Drainag                   | e Patterns (B10)                        |
| ✓ Saturation                 | on (A3)                                |                | True Aqua              | tic Plants               | (B14)              |                   | Dry-Sea                   | ason Water Table (C2)                   |
| Water M                      | larks (B1)                             |                | Hydrogen               | Sulfide O                | dor (C1)           |                   | Crayfish                  | Burrows (C8)                            |
| Sedimer                      | nt Deposits (B2)                       |                | Oxidized F             | Rhizosphe                | eres on Liv        | ing Roots         | (C3) Saturati             | on Visible on Aerial Imagery (C9)       |
| Drift De                     | posits (B3)                            |                | Presence               | of Reduce                | ed Iron (C         | 4)                | Stunted                   | or Stressed Plants (D1)                 |
| Algal Ma                     | at or Crust (B4)                       |                | Recent Iro             | n Reduct                 | ion in Tille       | d Soils (Ce       |                           | rphic Position (D2)                     |
| Iron Dep                     | oosits (B5)                            |                | Thin Muck              | Surface                  | (C7)               |                   | FAC-Ne                    | eutral Test (D5)                        |
| ı —                          | on Visible on Aerial                   |                |                        |                          |                    |                   |                           |   |
|                              | y Vegetated Concav                     | e Surface (B   | B) Other (Exp          | lain in Re               | emarks)            |                   |                           |   |
| Field Obser                  |  | ./             |                        | 1                        |                    |                   |                           |   |
| Surface Wat                  |  |                | Depth (inc             |                          |                    | -                 |                           |   |
| Water Table                  |  |                | Depth (inc             |                          |                    | _                 |                           |   |
| Saturation P                 |  | es N           | Depth (inc             | ches): <u>0</u>          |                    | Wetl              | and Hydrology Pr          | resent? Yes No                          |
| (includes cap<br>Describe Re | oiliary fringe)<br>corded Data (strean | n gauge, mon   | itoring well, aerial r | ohotos, pi               | revious ins        | pections).        | if available:             |   |
|                              | ,                                      |                | ,                      |                          |                    |                   |                           |   |
| Remarks:                     |  |                |                        |                          |                    |                   |                           |   |
| Wetland                      | l hydrology                            | present.       |                        |                          |                    |                   |                           |   |
|                              | ., 9,                                  |                |                        |                          |                    |                   |                           |   |
|                              |  |                |                        |                          |                    |                   |                           |   |

| Project/Site: AEP Fostoria to Lima                               | (              | City/Cou                        | nty: Bluffton   | Sampling Date: _                              | 2022-07-04                     |              |  |
|--|----------------|---------------------------------|-----------------|---|--------------------------------|--------------|--|
| Applicant/Owner: AEP   |                | State: Ohio Sampling Point: 1-A |                 |   |                                |              |  |
| Investigator(s): Beth Hollinden, Chris Davisson                  | :              | Section,                        | Township, Rai   | nge: OH01 T2S R8E \$                          | SN19                           |              |  |
| Landform (hillslope, terrace, etc.): Flat                        |                |                                 | _ Local relief  | (concave, convex, none):                      | None                           |              |  |
| Slope (%): 0 Lat: 40.85884                                       |                | Long:                           | 83.977343       |   | Datum: WGS 8                   | 4            |  |
| Soil Map Unit Name: SrA  |                |                                 |                 | NWI classific                                 | ation: N/A                     |              |  |
| Are climatic / hydrologic conditions on the site typical for thi | is time of yea | ar? Yes                         | No              | (If no, explain in R                          | emarks.)                       |              |  |
| Are Vegetation, Soil, or Hydrology                               | significantly  | disturbe                        | d? Are "        | 'Normal Circumstances" p                      | oresent? Yes                   | No           |  |
| Are Vegetation, Soil, or Hydrology                               | naturally pro  | blematic                        | ? (If ne        | eded, explain any answe                       | rs in Remarks.)                |              |  |
| SUMMARY OF FINDINGS - Attach site map                            | showing        | samp                            | ling point le   | ocations, transects                           | , important fe                 | atures, etc. |  |
| Hydrophytic Vegetation Present? Yes N                            | 10 <b></b> _   |                                 |                 |   |                                |              |  |
| Hydric Soil Present? Yes N                                       | 10             |                                 | the Sampled     |   |                                |              |  |
| Wetland Hydrology Present? Yes N                                 | 10 <u> </u>    | W                               | vithin a Wetlar | nd? Yes                                       | No                             |              |  |
| Remarks:   |                |                                 |                 |   |                                |              |  |
| Upland point for Wetland 1-AK.                                   |                |                                 |                 |   |                                |              |  |
| VEGETATION – Use scientific names of plants                      |                |                                 |                 |   |                                |              |  |
| 7 0 1 1 20 ft r  | Absolute       |                                 | ant Indicator   | Dominance Test work                           | sheet:                         |              |  |
| Tree Stratum (Plot size: 30 ft r ) 1                             |                |                                 | s? Status       | Number of Dominant S<br>That Are OBL, FACW,   |                                | (A)          |  |
| 2  |                |                                 |                 | Total Number of Domin                         |                                |              |  |
| 3  |                |                                 |                 | Species Across All Stra                       | ıta: <u>3</u>                  | (B)          |  |
| 4.       5.  |                |                                 |                 | Percent of Dominant Sport That Are OBL, FACW, | pecies<br>or FAC: 33.3         | (A/B)        |  |
| 15 ft r  |                | = Total (                       | Cover           |   |                                |              |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                      |                |                                 |                 | Prevalence Index wor  Total % Cover of:       |                                | / by:        |  |
| 1<br>2   |                |                                 |                 |   | x 1 = 0                        | , by.        |  |
| 3  |                |                                 |                 | FACW species 30                               |                                |              |  |
| 4  |                |                                 |                 | FAC species 0                                 |                                |              |  |
| 5.   |                |                                 |                 | FACU species 70                               | x 4 = 280                      | )            |  |
|  |                | = Total (                       | Cover           | UPL species 0                                 |                                |              |  |
| Herb Stratum (Plot size: 5 ft r )  1 Solidago canadensis         | 50             | ~                               | FACU            | Column Totals: 100                            | (A) <u>340</u>                 | (B)          |  |
| Phalaris arundinacea   | - 30           |                                 | FACW            | Prevalence Index                              | = R/A = 3.40                   |              |  |
| 3. Rubus allegheniensis  | - 20           |                                 | FACU            | Hydrophytic Vegetation                        |                                |              |  |
| 4  |                |                                 |                 | 1 - Rapid Test for I                          |                                | ation        |  |
| 5  |                |                                 |                 | 2 - Dominance Tes                             | st is >50%                     |              |  |
| 6  |                |                                 |                 | 3 - Prevalence Inde                           | ex is ≤3.0 <sup>1</sup>        |              |  |
| 7  |                |                                 |                 | 4 - Morphological A                           |                                |              |  |
| 8  |                |                                 |                 |   | s or on a separate             |              |  |
| 9.   |                |                                 |                 | Problematic Hydro                             | phytic Vegetation <sup>1</sup> | (Explain)    |  |
| 10   |                |                                 |                 | <sup>1</sup> Indicators of hydric soi         | l and wetland hydr             | ology must   |  |
| Woody Vine Stratum (Plot size: 30 ft r )                         | 100%_          | = Total (                       | Cover           | be present, unless dist                       |                                |              |  |
| 1. Convolvulus arvensis  | 10             | ~                               |                 | Hydrophytic                                   |                                |              |  |
| 2.   |                |                                 |                 | Hydrophytic Vegetation                        |                                |              |  |
|  | 10%            | = Total (                       | Cover           | Present? Ye                                   | s No                           | <u> </u>     |  |
| Remarks: (Include photo numbers here or on a separate            | sheet.)        |                                 |                 | •   |                                |              |  |
| Hydrophytic vegetation absent.                                   |                |                                 |                 |   |                                |              |  |
|  |                |                                 |                 |   |                                |              |  |

SOIL Sampling Point: 1-AK UPL

| Profile Desc           | ription: (Describe                          | to the depth r   | needed to docu     | ment the i   | ndicator             | or confirm        | n the absence of ir | ndicators.)                             |
|------------------------|---|------------------|--------------------|--------------|----------------------|-------------------|---------------------|---|
| Depth                  | Matrix                                      |                  | Red                | ox Feature:  |                      |                   |                     |   |
| (inches)               | Color (moist)                               | %                | Color (moist)      | %            | _Type <sup>1</sup> _ | _Loc <sup>2</sup> | Texture             | Remarks                                 |
| 0 - 20                 | 10YR 6/3                                    | 100              |                    |              |                      |                   | Silty Clay          |   |
| -                      |   |                  |                    |              |                      |                   |                     |   |
|                        |   |                  |                    |              |                      |                   |                     |   |
|                        |   |                  |                    |              |                      |                   |                     |   |
| l — -                  |   |                  |                    |              |                      |                   |                     |   |
|                        |   | - — —            |                    |              |                      |                   |                     |   |
|                        |   |                  |                    |              |                      |                   |                     |   |
|                        |   |                  |                    |              |                      |                   |                     |   |
| <sup>1</sup> Type: C=C | oncentration, D=Dep                         | letion RM=Re     | duced Matrix M     | S=Masked     | Sand Gra             | aine              | 2l ocation: Pl      | .=Pore Lining, M=Matrix.                |
| Hydric Soil            |   | delion, Nivi–Ne  | duced Matrix, W    | O-Wasket     | oand Ore             | airio.            |                     | Problematic Hydric Soils <sup>3</sup> : |
| Histosol               |   |                  | Sandy              | Gleyed Ma    | trix (S4)            |                   |                     | rie Redox (A16)                         |
| ı —                    | oipedon (A2)                                |                  |                    | Redox (S5    |                      |                   | Dark Surface        | . ,                                     |
| I —                    | stic (A3)                                   |                  |                    | d Matrix (S  | -                    |                   |                     | anese Masses (F12)                      |
| Hydroge                | en Sulfide (A4)                             |                  | Loamy              | Mucky Mir    | neral (F1)           |                   | Very Shallo         | ow Dark Surface (TF12)                  |
| Stratified             | d Layers (A5)                               |                  | Loamy              | Gleyed Ma    | atrix (F2)           |                   | Other (Exp          | lain in Remarks)                        |
| ı —                    | ıck (A10)                                   |                  |                    | ed Matrix (I |                      |                   |                     |   |
|                        | d Below Dark Surfac                         | e (A11)          | _                  | Dark Surfa   |                      |                   | 2                   |   |
| _                      | ark Surface (A12)                           |                  |                    | ed Dark Su   |                      | 1                 |                     | ydrophytic vegetation and               |
|                        | Mucky Mineral (S1)                          | 0)               | Redox              | Depression   | ns (F8)              |                   | -                   | drology must be present,                |
|                        | ıcky Peat or Peat (S<br>Layer (if observed) |                  |                    |              |                      |                   | uniess disti        | urbed or problematic.                   |
| l _                    |   |                  |                    |              |                      |                   |                     |   |
|                        | -h ):                                       |                  | -                  |              |                      |                   | Hydric Soil Pres    | sent? Yes No                            |
|                        | ches):                                      |                  |                    |              |                      |                   |                     |   |
| Remarks:               |   |                  |                    |              |                      |                   |                     |   |
| Hvdric                 | soil absent.                                |                  |                    |              |                      |                   |                     |   |
| ,                      |   |                  |                    |              |                      |                   |                     |   |
|                        |   |                  |                    |              |                      |                   |                     |   |
|                        |   |                  |                    |              |                      |                   |                     |   |
| HYDROLO                | GY  |                  |                    |              |                      |                   |                     |   |
| Wetland Hy             | drology Indicators:                         | :                |                    |              |                      |                   |                     |   |
| Primary India          | cators (minimum of o                        | one is required; | check all that a   | pply)        |                      |                   | Secondary In        | ndicators (minimum of two required)     |
| Surface                | Water (A1)                                  |                  | Water-Sta          | ained Leav   | es (B9)              |                   | Surface             | Soil Cracks (B6)                        |
| High Wa                | ater Table (A2)                             |                  | Aquatic F          | auna (B13    | )                    |                   | Drainage            | e Patterns (B10)                        |
| Saturation             | on (A3)                                     |                  | True Aqu           | atic Plants  | (B14)                |                   | Dry-Seas            | son Water Table (C2)                    |
| Water M                | larks (B1)                                  |                  | Hydrogen           | Sulfide O    | dor (C1)             |                   | Crayfish            | Burrows (C8)                            |
| Sedimer                | nt Deposits (B2)                            |                  | Oxidized           | Rhizosphe    | res on Liv           | ing Roots         | (C3) Saturation     | on Visible on Aerial Imagery (C9)       |
| Drift De               | posits (B3)                                 |                  | Presence           | of Reduce    | d Iron (C4           | 1)                | Stunted             | or Stressed Plants (D1)                 |
| Algal Ma               | at or Crust (B4)                            |                  | Recent Ir          | on Reducti   | on in Tilled         | d Soils (Ce       | 6) Geomor           | phic Position (D2)                      |
| Iron Dep               | oosits (B5)                                 |                  | Thin Muc           | k Surface (  | C7)                  |                   | FAC-Net             | utral Test (D5)                         |
| Inundati               | on Visible on Aerial                        | Imagery (B7)     | Gauge or           | Well Data    | (D9)                 |                   |                     |   |
| Sparsely               | Vegetated Concav                            | e Surface (B8)   | Other (Ex          | plain in Re  | marks)               |                   |                     |   |
| Field Obser            | vations:                                    |                  |                    |              |                      |                   |                     |   |
| Surface Wat            | er Present?                                 | 'es No           | Depth (ir          | nches):      |                      | _                 |                     |   |
| Water Table            |   |                  | Depth (ir          |              |                      |                   |                     |   |
| Saturation P           |   |                  | Depth (ir          |              |                      |                   | and Hydrology Pre   | esent? Yes No                           |
| (includes car          |   |                  | Dopui (ii          | 101100)      |                      | _   ""            | and riyarology riv  |   |
| Describe Re            | corded Data (stream                         | gauge, monito    | oring well, aerial | photos, pr   | evious ins           | pections),        | if available:       |   |
|                        |   |                  |                    |              |                      |                   |                     |   |
| Remarks:               |   |                  |                    |              |                      |                   |                     |   |
| Wetland                | l hydrology                                 | ahsant           |                    |              |                      |                   |                     |   |
| vvetiant               | l hydrology a                               | anstill.         |                    |              |                      |                   |                     |   |
|                        |   |                  |                    |              |                      |                   |                     |   |
| I                      |   |                  |                    |              |                      |                   |                     |   |

| Project/Site: AEP Fostoria to Lima                                   | ounty: Lima/All              | en               | Sampling Date: 2022-07-05                      |   |
|--|------------------------------|------------------|--|---|
| Applicant/Owner: AEP   |                              |                  | State: Ohio                                    | Sampling Point: 1-AL  |
| Investigator(s): Beth Hollinden, Chris Davisson                      | Sectio                       | n, Township, Rar | nge: OH01 T2S R7E S                            | SN26  |
| Landform (hillslope, terrace, etc.): Depression Toeslope             |                              | Local relief (   | (concave, convex, none):                       | Concave   |
| Slope (%): 2 Lat: 40.834152  | Long:                        | -84.01554        |  | Datum: WGS 84   |
| Soil Map Unit Name: SrA  |                              |                  | NWI classification                             | ation: R4SBC  |
| Are climatic / hydrologic conditions on the site typical for this ti | time of year? Ye             | es No            | (If no, explain in Re                          | emarks.)  |
| Are Vegetation, Soil, or Hydrology sign                              | nificantly disturb           | ed? Are "I       | Normal Circumstances" p                        | resent? Yes No  |
| Are Vegetation, Soil, or Hydrology nat                               | turally problema             | tic? (If ne      | eded, explain any answer                       | rs in Remarks.)   |
| SUMMARY OF FINDINGS - Attach site map sh                             | howing sam                   | pling point lo   | ocations, transects                            | , important features, etc.  |
| Hydrophytic Vegetation Present? Yes No _                             |                              |                  | _  |   |
| Hydric Soil Present? Yes No  |                              | Is the Sampled   |  | No  |
| Wetland Hydrology Present? Yes <u>✓</u> No Remarks:                  |                              | within a Wetlan  | ar res   | NO  |
|  |                              |                  |  |   |
| PEM. ORAM score of 18.   |                              |                  |  |   |
| VEGETATION – Use scientific names of plants.                         |                              |                  |  |   |
|  | Absolute Dom<br>% Cover Spec | inant Indicator  | Dominance Test works                           |   |
| 1  |                              |                  | Number of Dominant Sp<br>That Are OBL, FACW, o |   |
| 2.   |                              |                  | Total Number of Domina                         |   |
| 3  |                              |                  | Species Across All Strat                       |   |
| 4  |                              |                  | Percent of Dominant Sp                         | pecies  |
| 5  |                              |                  | That Are OBL, FACW, o                          |   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                          | = Tota                       | ai Cover         | Prevalence Index work                          | ksheet:   |
| 1  |                              |                  | Total % Cover of:                              |   |
| 2  |                              |                  |  | x 1 = 0   |
| 3  |                              |                  | FAC appeies 0                                  | x = 200 $x = 0$   |
| 4.       5.  |                              |                  |  | $\times 4 = 0$  |
|  | = Tota                       |                  | · <del>.</del>                                 | x 5 = 0   |
| Herb Stratum (Plot size: 5 ft r )                                    |                              | / FACW           | Column Totals: 100                             | (A) 200 (B)   |
| I.   |                              | - FACVV          | Prevalence Index                               | = B/A = <u>2.00</u>   |
| 2  |                              | — —              | Hydrophytic Vegetatio                          |   |
| 3  |                              |                  | <u>✓</u> 1 - Rapid Test for H                  |   |
| 5.   |                              |                  | ✓ 2 - Dominance Test                           | t is >50%   |
| 6  |                              |                  | 3 - Prevalence Inde                            |   |
| 7  |                              |                  | 4 - Morphological A                            | daptations <sup>1</sup> (Provide supporting s or on a separate sheet) |
| 8  |                              |                  |  | phytic Vegetation <sup>1</sup> (Explain)                              |
| 9  |                              | — —              |  |   |
| 10   | 100% = Tota                  | al Cover         |  | and wetland hydrology must  |
| Woody Vine Stratum (Plot size: 30 ft r )                             |                              | 00101            | be present, unless distu                       | irbed or problematic.   |
| 1  |                              | — —              | Hydrophytic                                    |   |
| 2  |                              | <br>al Cover     | Vegetation<br>Present? Yes                     | s No  |
| Remarks: (Include photo numbers here or on a separate she            |                              | ii covei         |  |   |
| Hydrophytic vegetation present.                                      | ,                            |                  |  |   |
|  |                              |                  |  |   |

SOIL Sampling Point: 1-AL

| Profile Desc                  | cription: (Describe                   | to the depth   | needed to docur       | nent the i             | ndicator          | or confirm       | the absence of | indicators.)  |
|-------------------------------|---------------------------------------|----------------|-----------------------|------------------------|-------------------|------------------|----------------|---|
| Depth                         | Matrix                                |                |                       | x Feature:             |                   | 1 2              | T              | Demode  |
| (inches)                      | Color (moist)                         |                | Color (moist)         |                        | Type <sup>1</sup> | Loc <sup>2</sup> |                | Remarks   |
| 0 - 20                        | 10YR 4/2                              | _ 95           | 10YR 5/6              | 5                      | <u>C</u>          | <u>M</u>         | Silty Clay _   |   |
|                               |                                       |                |                       |                        |                   |                  |                |   |
|                               |                                       |                |                       |                        |                   |                  |                |   |
|                               |                                       |                |                       |                        |                   |                  |                |   |
| -                             |                                       |                |                       |                        |                   |                  |                |   |
|                               |                                       |                |                       |                        |                   |                  |                |   |
|                               |                                       |                |                       |                        |                   |                  |                |   |
|                               | oncentration, D=Dep                   | oletion, RM=F  | Reduced Matrix, MS    | S=Masked               | Sand Gr           | ains.            |                | PL=Pore Lining, M=Matrix.                                 |
| Hydric Soil                   |                                       |                |                       |                        |                   |                  |                | r Problematic Hydric Soils <sup>3</sup> :                 |
| Histosol                      | (A1)<br>pipedon (A2)                  |                |                       | Gleyed Ma<br>Redox (S5 |                   |                  | Coast Pra      | airie Redox (A16)   |
| ı —                           | istic (A3)                            |                |                       | l Matrix (S            | -                 |                  |                | ganese Masses (F12)                                       |
| ı —                           | en Sulfide (A4)                       |                |                       | Mucky Mir              | ,                 |                  | _              | illow Dark Surface (TF12)                                 |
| Stratified                    | d Layers (A5)                         |                | Loamy                 | Gleyed Ma              | atrix (F2)        |                  | Other (Ex      | xplain in Remarks)  |
| _                             | ıck (A10)                             |                |                       | d Matrix (I            |                   |                  |                |   |
|                               | d Below Dark Surfac                   | e (A11)        |                       | Dark Surfa             | , ,               |                  | 31             |   |
| ı —                           | ark Surface (A12)  Mucky Mineral (S1) |                |                       | d Dark Su<br>Depressio |                   | )                |                | f hydrophytic vegetation and<br>ydrology must be present, |
| ı —                           | icky Peat or Peat (S                  | 3)             |                       | эсрі сосісі            | 10 (1 0)          |                  |                | sturbed or problematic.                                   |
|                               | Layer (if observed)                   |                |                       |                        |                   |                  |                | ·   |
| Type:                         |                                       |                |                       |                        |                   |                  |                |   |
| Depth (in                     | ches):                                |                |                       |                        |                   |                  | Hydric Soil Pr | resent? Yes No  |
| Remarks:                      |                                       |                |                       |                        |                   |                  |                |   |
| Hydric                        | soil present.                         |                |                       |                        |                   |                  |                |   |
|                               |                                       |                |                       |                        |                   |                  |                |   |
| HYDROLO                       |                                       |                |                       |                        |                   |                  |                |   |
| 1                             | drology Indicators                    |                | di abaali all that an | - l. d                 |                   |                  | Casandani      | Indicators (minimum of two socional)                      |
|                               | cators (minimum of                    | one is require |                       |                        | (BO)              |                  |                | Indicators (minimum of two required)                      |
| Surface                       | ater Table (A2)                       |                | Water-Stai            |                        | ` '               |                  |                | e Soil Cracks (B6)<br>ge Patterns (B10)                   |
| Saturation                    |                                       |                | True Aqua             | ,                      | '                 |                  |                | eason Water Table (C2)                                    |
| I                             | larks (B1)                            |                | Hydrogen              |                        |                   |                  |                | sh Burrows (C8)   |
| ı —                           | nt Deposits (B2)                      |                | Oxidized F            |                        |                   | ing Roots        |                | tion Visible on Aerial Imagery (C9)                       |
|                               | posits (B3)                           |                | Presence              |                        |                   |                  |                | d or Stressed Plants (D1)                                 |
| Algal Ma                      | at or Crust (B4)                      |                | Recent Iro            | n Reducti              | on in Tille       | d Soils (C6      | Geomo          | orphic Position (D2)                                      |
| Iron Dep                      | oosits (B5)                           |                | Thin Muck             | Surface (              | C7)               |                  | FAC-N          | leutral Test (D5)   |
| ı —                           | on Visible on Aerial                  |                |                       |                        | . ,               |                  |                |   |
|                               | y Vegetated Concav                    | e Surface (B   | B) Other (Exp         | lain in Re             | marks)            |                  |                |   |
| Field Obser                   |                                       |                |                       | 1                      |                   |                  |                |   |
| Surface Wat                   |                                       |                | Depth (in             |                        |                   | -                |                |   |
| Water Table                   |                                       |                | Depth (in             |                        |                   | —                |                |   |
| Saturation P<br>(includes cap | oillary fringe)                       |                | Depth (inc            |                        | avious ins        |                  |                | Present? Yes No   |
| Describe Re                   | corded Data (strean                   | i gauge, mon   | noning well, aerial   | onotos, pr             | evious ins        | spections),      | ii avallable:  |   |
| Remarks:                      |                                       |                |                       |                        |                   |                  |                |   |
| Wetland                       | l hydrology                           | present.       | •                     |                        |                   |                  |                |   |
|                               |                                       |                |                       |                        |                   |                  |                |   |
|                               |                                       |                |                       |                        |                   |                  |                |   |

| Project/Site: AEP Fostoria to Lima  | (                | City/Co | ounty:   | Lima/All   | len Sampling Date: 2022-07-05   |  |  |
|---|------------------|---------|----------|------------|---|--|--|
| Applicant/Owner: AEP State: Ohio Sampling Po  |                  |         |          |            |   |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson Section, Township, Range: OH01 T2S R7E SN26 |                  |         |          |            |   |  |  |
|   |                  |         |          |            | (concave, convex, none): None   |  |  |
| Slope (%): 0 Lat: 40.8341   | I                | Long: _ | -84.0    | 215537     | Datum: WGS 84   |  |  |
| Soil Map Unit Name: SrA   |                  |         |          |            | NWI classification: N/A   |  |  |
| Are climatic / hydrologic conditions on the site typical for the                            | nis time of yea  | ar? Ye  | es       | No _       | (If no, explain in Remarks.)  |  |  |
| Are Vegetation, Soil, or Hydrology  | significantly    | disturb | ed?      | Are "      | Normal Circumstances" present? Yes No   |  |  |
| Are Vegetation, Soil, or Hydrology  | naturally prol   | blemat  | tic?     | (If ne     | eded, explain any answers in Remarks.)  |  |  |
| SUMMARY OF FINDINGS - Attach site map   | showing          | sam     | pling    | point l    | ocations, transects, important features, etc.   |  |  |
| Hydrophytic Vegetation Present? Yes   | No               |         |          |            |   |  |  |
| Hydric Soil Present? Yes  |                  |         |          | Sampled    |   |  |  |
| Wetland Hydrology Present? Yes  | No               |         | withir   | n a Wetlan | nd? Yes No  |  |  |
| Remarks:  |                  |         |          |            |   |  |  |
| Upland point for Wetland 1-AL.  |                  |         |          |            |   |  |  |
| <b>VEGETATION</b> – Use scientific names of plants  |                  |         |          |            |   |  |  |
|   | Absolute         | Domi    | inant    | Indicator  | Dominance Test worksheet:   |  |  |
| Tree Stratum (Plot size: 30 ft r )  | % Cover          |         |          |            | Number of Dominant Species  |  |  |
| 1   |                  |         |          |            | That Are OBL, FACW, or FAC: 1 (A)   |  |  |
| 2   |                  |         |          |            | Total Number of Dominant  |  |  |
| 3   |                  |         |          |            | Species Across All Strata: 2 (B)  |  |  |
| 4<br>5  |                  |         |          |            | Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)  |  |  |
|   |                  | = Tota  | l Cove   | er e       |   |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )   |                  |         |          |            | Prevalence Index worksheet:   |  |  |
| 1   |                  |         |          |            |   |  |  |
| 2   |                  |         |          |            | OBL species $0 \times 1 = 0$<br>FACW species $0 \times 2 = 0$   |  |  |
| 3   |                  |         |          |            | FAC species 30 x 3 = 90   |  |  |
| 4<br>5  |                  |         |          |            | FACU species 70 x 4 = 280   |  |  |
| 0   |                  | = Tota  | I Cove   | er er      | UPL species $0 \times 5 = 0$  |  |  |
| Herb Stratum (Plot size: 5 ft r )   |                  |         |          |            | Column Totals: 100 (A) 370 (B)  |  |  |
| 1. Festuca rubra  | _ 60             |         |          | FACU       |   |  |  |
| 2. Toxicodendron radicans   | $-\frac{30}{10}$ |         |          | FAC        | Prevalence Index = B/A = 3.70   |  |  |
| 3. Plantago lanceolata  |                  |         | — -      | FACU_      | Hydrophytic Vegetation Indicators:  |  |  |
| 4   |                  | _       | —        |            | 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%  |  |  |
| 5   |                  |         |          |            | 3 - Prevalence Index is ≤3.0¹   |  |  |
| 6   |                  |         |          |            | 4 - Morphological Adaptations¹ (Provide supporting  |  |  |
| 7   |                  |         |          |            | data in Remarks or on a separate sheet)   |  |  |
| 8<br>9  |                  |         |          |            | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |  |  |
| 10  |                  |         |          |            |   |  |  |
|   | 100%             | = Tota  | l Cove   | er e       | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic. |  |  |
| Woody Vine Stratum (Plot size: 30 ft r  | 10               |         | ,        |            | be precent, amose distance of presidentale.   |  |  |
| 1. Convolvulus arvensis   | _ 10             |         | <u> </u> |            | Hydrophytic   |  |  |
| 2   | 10%              |         |          |            | Vegetation Present? Yes No  |  |  |
| Remarks: (Include photo numbers here or on a separate                                       |                  | = Tota  | II Cove  | er.        |   |  |  |
|   | 3                |         |          |            |   |  |  |
| Hydrophytic vegetation absent.  |                  |         |          |            |   |  |  |
|   |                  |         |          |            |   |  |  |

SOIL Sampling Point: 1-AL UPL

| Profile Description: (Describe to the depth needed to document the indicator or   | confirm the absence of indicators.)   |
|---|---|
| Depth Matrix Redox Features   |   |
| (inches) Color (moist) % Color (moist) % Type <sup>1</sup>  | Loc <sup>2</sup> Texture Remarks  |
| 0 - 20 10YR 5/3 100   | Silty Clay  |
| -   |   |
|   |   |
|   |   |
| <u> </u>  |   |
| ·   |   |
|   |   |
|   |   |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grain   | s. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.   |
| Hydric Soil Indicators:   | Indicators for Problematic Hydric Soils <sup>3</sup> :  |
| Histosol (A1) Sandy Gleyed Matrix (S4)  | Coast Prairie Redox (A16)   |
| Histic Epipedon (A2) Sandy Redox (S5)   | Dark Surface (S7)   |
| Black Histic (A3)  Stripped Matrix (S6)   | Iron-Manganese Masses (F12)   |
| Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)  | Very Shallow Dark Surface (TF12)  |
| Stratified Layers (A5) Loamy Gleyed Matrix (F2)   | Other (Explain in Remarks)  |
| 2 cm Muck (A10) Depleted Matrix (F3)  |   |
| Depleted Below Dark Surface (A11) Redox Dark Surface (F6)   | 3   |
| Thick Dark Surface (A12) Depleted Dark Surface (F7)   | <sup>3</sup> Indicators of hydrophytic vegetation and   |
| Sandy Mucky Mineral (S1) Redox Depressions (F8) 5 cm Mucky Peat or Peat (S3)  | wetland hydrology must be present,<br>unless disturbed or problematic.  |
| Restrictive Layer (if observed):  | unless disturbed of problematic.  |
| Type:   |   |
|   | Hydric Soil Present? Yes No   |
| Depth (inches):   |   |
| Remarks:  |   |
| Hydric soil absent.   |   |
| •   |   |
|   |   |
|   |   |
|   |   |
| HYDROLOGY   |   |
| HYDROLOGY  Wetland Hydrology Indicators:  |   |
|   | Secondary Indicators (minimum of two required)  |
| Wetland Hydrology Indicators:   | Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  |   |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9)  | Surface Soil Cracks (B6)  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)   | Surface Soil Cracks (B6) Drainage Patterns (B10)  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) High Water Table (A2) Saturation (A3)  True Aquatic Flants (B14)   | <ul><li>Surface Soil Cracks (B6)</li><li>Drainage Patterns (B10)</li><li>Dry-Season Water Table (C2)</li><li>Crayfish Burrows (C8)</li></ul>  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1)  | <ul><li>Surface Soil Cracks (B6)</li><li>Drainage Patterns (B10)</li><li>Dry-Season Water Table (C2)</li><li>Crayfish Burrows (C8)</li></ul>  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living  | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)   |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Wetland Hydrogen Sulfide Odor (C1)  Coxidized Rhizospheres on Living  Presence of Reduced Iron (C4)  | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)   |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9)  High Water Table (A2) Aquatic Fauna (B13)  Saturation (A3) True Aquatic Plants (B14)  Water Marks (B1) Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) Oxidized Rhizospheres on Living  Drift Deposits (B3) Presence of Reduced Iron (C4)  Algal Mat or Crust (B4) Recent Iron Reduction in Tilled S   | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9)  High Water Table (A2) Aquatic Fauna (B13)  Saturation (A3) True Aquatic Plants (B14)  Water Marks (B1) Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2) Oxidized Rhizospheres on Living  Drift Deposits (B3) Presence of Reduced Iron (C4)  Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Signal Iron Deposits (B5) Thin Muck Surface (C7)  | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)  |
| Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled S         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)   | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No V |
| Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled S         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):   | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No V |
| Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled S         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections. | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No V |
| Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled S         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes No Depth (inches):         Water Table Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):         (includes capillary fringe)   | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No V |
| Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled S1         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):          Water Table Present?       Yes       No       Depth (inches):  | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No V |
| Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled S         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections. | Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No V |

| Project/Site: AEP Fostoria to Lima   | <sub>y:</sub> <u>Lima/Al</u> | len               | Sampling Date: 2022-07-05  |  |   |  |
|--|------------------------------|-------------------|----------------------------|--|---|--|
| Applicant/Owner: AEP   |                              |                   |                            | State: Ohio Sampling Point: 1-AM                                   |   |  |
| Investigator(s): Beth Hollinden, Chris Davisson                                      | {                            | Section, T        | ownship, Rai               | <sub>nge:</sub> OH01 T3S R7E S                                     | SN11  |  |
| $ Land form \ (hillslope, terrace, etc.) : \ \underline{ \ Depression \ Toeslope } $ |                              |                   | Local relief               | Concave  |   |  |
| Slope (%): 2 Lat: 40.800362  | ι                            | Long: <u>-8</u> 4 | 4.027713                   |  | Datum: WGS 84   |  |
| Soil Map Unit Name: PmA  |                              |                   |                            | NWI classific  | ation: N/A  |  |
| Are climatic / hydrologic conditions on the site typical for this t                  | ime of yea                   | ar? Yes _         | ✓ No_                      | (If no, explain in Re  | emarks.)  |  |
| Are Vegetation, Soil, or Hydrology sig   | nificantly o                 | disturbed?        | Are "                      | Normal Circumstances" p  | resent? Yes No  |  |
| Are Vegetation, Soil, or Hydrology nat   | turally prob                 | blematic?         | (If ne                     | eded, explain any answer   | rs in Remarks.)   |  |
| SUMMARY OF FINDINGS - Attach site map sl   | howing                       | sampliı           | ng point le                | ocations, transects  | , important features, etc.  |  |
| Hydrophytic Vegetation Present? Yes No   |                              |                   |                            |  |   |  |
| Hydric Soil Present? Yes No  |                              |                   | he Sampled<br>hin a Wetlar |  | No  |  |
| Wetland Hydrology Present? Yes   ✓ No Remarks:                                       |                              | Wit               | IIIII a vvetiai            | 165  |   |  |
|  |                              |                   |                            |  |   |  |
| PEM. ORAM score of 28.   |                              |                   |                            |  |   |  |
| <b>VEGETATION</b> – Use scientific names of plants.                                  |                              |                   |                            |  |   |  |
|  | Absolute<br>% Cover          |                   | nt Indicator<br>Status     | Dominance Test work  |   |  |
| 1  |                              |                   |                            | Number of Dominant Sp<br>That Are OBL, FACW, of                    |   |  |
| 2.   |                              |                   |                            | Total Number of Domina   |   |  |
| 3  |                              |                   |                            | Species Across All Stra  | _   |  |
| 4  |                              |                   |                            | Percent of Dominant Sp   |   |  |
| 5  |                              |                   |                            | That Are OBL, FACW, o  | or FAC: 100 (A/B)   |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )  |                              | - Total Co        | ovei                       | Prevalence Index work  | ksheet:   |  |
| 1  |                              |                   |                            | Total % Cover of:  |   |  |
| 2  |                              |                   |                            | I .  | x 1 = 100   |  |
| 3  |                              |                   |                            |  | x = 20<br>x = 3 = 0   |  |
| 4  |                              |                   |                            |  | $\times 4 = 0$  |  |
|  |                              |                   |                            |  | x 5 = 0   |  |
| Herb Stratum (Plot size: 5 ft r )  | 100                          | ~                 |                            | Column Totals: 110   | (A) <u>120</u> (B)  |  |
|  |                              |                   |                            | Prevalence Index   | = B/A = <u>1.09</u>   |  |
| 2.<br>3.   |                              |                   |                            | Hydrophytic Vegetation   |   |  |
| 4  |                              |                   |                            | ✓ 1 - Rapid Test for H   |   |  |
| 5.   |                              |                   |                            | ✓ 2 - Dominance Tes  | t is >50%   |  |
| 6  |                              |                   |                            | ✓ 3 - Prevalence Inde  |   |  |
| 7  |                              |                   |                            | 4 - Morphological A  | daptations <sup>1</sup> (Provide supporting s or on a separate sheet) |  |
| 8  |                              |                   |                            | 1  | phytic Vegetation <sup>1</sup> (Explain)                              |  |
| 9  |                              |                   |                            |  |   |  |
| 10   | 100%                         | = Total Co        | over                       | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu | l and wetland hydrology must  |  |
| Woody Vine Stratum (Plot size: 30 ft r )   |                              |                   |                            | be present, unless distu   | ibed of problematic.  |  |
| 1, 1100 Hanta  | 10                           |                   | FACW                       | Hydrophytic  |   |  |
| 2  | 10% :                        | = Total Co        |                            | Vegetation<br>Present? Yes   | s No  |  |
| Remarks: (Include photo numbers here or on a separate sh                             |                              | , star ot         |                            | I  |   |  |
| Hydrophytic vegetation present.  | -                            |                   |                            |  |   |  |
|  |                              |                   |                            |  |   |  |

SOIL Sampling Point: 1-AM

| Profile Desc   | ription: (Describe                         | to the depth   | n needed to docun      | nent the               | indicator          | or confirm        | n the absence o         | f indicators.)  |  |  |
|--|--|----------------|------------------------|------------------------|--------------------|-------------------|-------------------------|---|--|--|
| Depth  | Matrix                                     |                |                        | x Feature              |                    |                   |                         | •   |  |  |
| (inches)   | Color (moist)                              | %              | Color (moist)          | %                      | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                 | Remarks   |  |  |
| 0 - 20   | 10YR 4/2                                   | <u>85</u>      | 10YR 5/6               | 10                     | _ <u>C</u>         | PL / M            | Silty Clay              |   |  |  |
| 0 - 20   | 10YR 4/2                                   | 85 ´           | 10YR 5/1               | 5                      | D                  | М                 | Silty Clay              |   |  |  |
|  | •  |                | •                      |                        |                    |                   |                         |   |  |  |
|  |  |                |                        |                        |                    |                   |                         |   |  |  |
|  |  |                |                        |                        |                    |                   |                         |   |  |  |
|  |  |                |                        |                        |                    |                   |                         |   |  |  |
|  |  |                |                        |                        |                    |                   |                         |   |  |  |
|  |  |                |                        |                        |                    |                   |                         |   |  |  |
|  | oncentration, D=Dep                        | oletion, RM=F  | Reduced Matrix, MS     | S=Maske                | ed Sand Gr         | ains.             |                         | PL=Pore Lining, M=Matrix.                               |  |  |
| Hydric Soil  |  |                |                        |                        |                    |                   |                         | or Problematic Hydric Soils <sup>3</sup> :              |  |  |
| Histosol   |  |                |                        | -                      | latrix (S4)        |                   | _                       | rairie Redox (A16)                                      |  |  |
| ı —  | oipedon (A2)<br>stic (A3)                  |                | Sandy F                | kedox (S<br>I Matrix ( |                    |                   |                         | rface (S7)<br>nganese Masses (F12)                      |  |  |
| ı —  | n Sulfide (A4)                             |                |                        |                        | ineral (F1)        |                   | _                       | allow Dark Surface (TF12)                               |  |  |
|  | d Layers (A5)                              |                |                        |                        | latrix (F2)        |                   |                         | explain in Remarks)                                     |  |  |
| 2 cm Mu  | ıck (A10)                                  |                | <u>✓</u> Deplete       |                        |                    |                   |                         |   |  |  |
| ı —  | d Below Dark Surfac                        | e (A11)        | _                      |                        | face (F6)          |                   | 2                       |   |  |  |
| _  | ark Surface (A12)                          |                |                        |                        | urface (F7         | )                 |                         | of hydrophytic vegetation and                           |  |  |
| Sandy Mucky Mineral (S1) Redox Depressions (F8) 5 cm Mucky Peat or Peat (S3) |  |                |                        |                        |                    |                   |                         | hydrology must be present,<br>listurbed or problematic. |  |  |
|  | Layer (if observed)                        |                |                        |                        |                    |                   | unless u                | istarbed of problematic.                                |  |  |
|  | ,  |                |                        |                        |                    |                   |                         | ,   |  |  |
|  | ches):                                     |                |                        |                        |                    |                   | Hydric Soil P           | resent? Yes No  |  |  |
| Remarks:   |  |                | _                      |                        |                    |                   |                         |   |  |  |
|  | ., .                                       |                |                        |                        |                    |                   |                         |   |  |  |
| Hydric   | soil present.                              |                |                        |                        |                    |                   |                         |   |  |  |
|  |  |                |                        |                        |                    |                   |                         |   |  |  |
|  |  |                |                        |                        |                    |                   |                         |   |  |  |
| HYDROLO  | GY   |                |                        |                        |                    |                   |                         |   |  |  |
| Wetland Hy   | drology Indicators:                        |                |                        |                        |                    |                   |                         |   |  |  |
| Primary India  | cators (minimum of                         | one is require | d; check all that ap   | ply)                   |                    |                   | Secondary               | y Indicators (minimum of two required)                  |  |  |
| Surface  | Water (A1)                                 |                | Water-Stai             | ned Lea                | ves (B9)           |                   | Surfac                  | ce Soil Cracks (B6)                                     |  |  |
| High Wa  | iter Table (A2)                            |                | Aquatic Fa             | una (B1                | 3)                 |                   | Drainage Patterns (B10) |   |  |  |
| ✓ Saturation   | on (A3)                                    |                | True Aqua              | tic Plants             | s (B14)            |                   | Dry-S                   | eason Water Table (C2)                                  |  |  |
| Water M  | arks (B1)                                  |                | Hydrogen               |                        |                    |                   |                         | ish Burrows (C8)  |  |  |
| Sedimer  | nt Deposits (B2)                           |                | Oxidized R             | Rhizosph               | eres on Liv        | ing Roots         | (C3) Satura             | ation Visible on Aerial Imagery (C9)                    |  |  |
| Drift Dep  | oosits (B3)                                |                | Presence               |                        | •                  | •                 |                         | ed or Stressed Plants (D1)                              |  |  |
| -  | at or Crust (B4)                           |                | Recent Iro             |                        |                    | d Soils (C        |                         | norphic Position (D2)                                   |  |  |
| :  | oosits (B5)                                | (57)           | Thin Muck              |                        | , ,                |                   | <u>✓</u> FAC-           | Neutral Test (D5)                                       |  |  |
| ı —  | on Visible on Aerial<br>/ Vegetated Concav |                |                        |                        |                    |                   |                         |   |  |  |
| Field Obser  |  | e Suriace (Bo  | B) Other (Exp          | nain in R              | emarks)            |                   |                         |   |  |  |
| Surface Wat  |  | os N           | o Depth (inc           | chae).                 |                    |                   |                         |   |  |  |
| Water Table  |  |                | o Depth (inc           |                        |                    |                   |                         |   |  |  |
| Saturation P   |  |                | o Depth (inc           |                        |                    |                   | and Hydrology           | Present? Yes No   |  |  |
| (includes cap  |  | cs IV          | o Depti (inc           | J1165). <u> </u>       |                    | _   ••••          | and riyurology          | Fresent: res NO   |  |  |
| Describe Re  | corded Data (stream                        | gauge, mon     | itoring well, aerial p | ohotos, p              | revious ins        | spections),       | if available:           |   |  |  |
| Pamarka:   |  |                |                        |                        |                    |                   |                         |   |  |  |
| Remarks:   |  |                |                        |                        |                    |                   |                         |   |  |  |
| Wetland  | l hydrology <sub>l</sub>                   | present.       | •                      |                        |                    |                   |                         |   |  |  |
|  |  |                |                        |                        |                    |                   |                         |   |  |  |
| I  |  |                |                        |                        |                    |                   |                         |   |  |  |

| Project/Site: AEP Fostoria to Lima City/County: Lima/A            |                     |               |                          |                     | <u>len</u>   | Sampling Date: 2022-07-05                             |
|---|---------------------|---------------|--------------------------|---------------------|--|---|
| Applicant/Owner: AEP  |                     | State: Ohio   | Sampling Point: 1-AM UPL |                     |  |   |
| Investigator(s): Beth Hollinden, Chris Davisson                   | :                   | Section       | n, Tov                   | vnship, Rai         | nge: OH01 T3S R7E S  | SN11  |
| Landform (hillslope, terrace, etc.): Flat                         |                     |               | L                        | ocal relief         | (concave, convex, none):   | None  |
| Slope (%): 0 Lat: 40.800684                                       |                     | Long:         | -84.                     | 027666              |  | Datum: WGS 84   |
| Soil Map Unit Name: Ble1B1  |                     | NWI classific | ation: N/A               |                     |  |   |
| Are climatic / hydrologic conditions on the site typical for this |                     |               |                          |                     |  |   |
| Are Vegetation, Soil, or Hydrology si                             |                     |               |                          |                     |  | present? Yes No                                       |
| Are Vegetation, Soil, or Hydrology na                             |                     |               |                          |                     | eeded, explain any answe   |   |
| SUMMARY OF FINDINGS – Attach site map s                           |                     |               |                          | •                   |  | •   |
| Hydrophytic Vegetation Present? Yes No                            | ·                   |               |                          |                     |  |   |
| Hydric Soil Present? Yes No                                       |                     |               |                          | e Sampled           |  |   |
| Wetland Hydrology Present? Yes No                                 |                     |               | withi                    | n a Wetlar          | nd? Yes  | No  |
| Remarks:  |                     |               |                          |                     |  |   |
| Upland point for Wetland 1-AM.                                    |                     |               |                          |                     |  |   |
| <b>VEGETATION</b> – Use scientific names of plants.               |                     |               |                          |                     |  |   |
| Tree Stratum (Plot size: 30 ft r )                                | Absolute<br>% Cover |               |                          | Indicator<br>Status | Dominance Test work  |   |
| 1   |                     |               |                          |                     | Number of Dominant Sp<br>That Are OBL, FACW, of                    |   |
| 2   |                     |               |                          |                     | Total Number of Domin  | ant   |
| 3   |                     |               |                          |                     | Species Across All Stra  | •   |
| 4   |                     |               |                          |                     | Percent of Dominant Sp   | pecies  |
| 5   |                     |               |                          |                     | That Are OBL, FACW, o  |   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                     | = Iota        | al Cov                   | er                  | Prevalence Index wor   | ksheet:   |
| 1   |                     |               |                          |                     | Total % Cover of:  | Multiply by:  |
| 2   |                     |               |                          |                     | OBL species 0  | x 1 = <u>0</u>  |
| 3   |                     |               |                          |                     |  | x 2 = <u>20</u>                                       |
| 4   |                     |               |                          |                     |  | x 3 = 0   |
| 5   |                     |               |                          |                     |  | x 4 = 360   |
| Herb Stratum (Plot size: 5 ft r )                                 |                     | = Tota        | al Cov                   | er                  | UPL species 0 Column Totals: 100                                   | $x = \frac{0}{380}$ (B)                               |
| 1. Plantago lanceolata  | 35                  | V             | /                        | FACU                |  | (-)   |
| 2. Trifolium pratense   | 30                  |               | _                        | FACU                | Prevalence Index   | = B/A = <u>3.80</u>                                   |
| 3. Festuca rubra  | 20                  |               |                          | FACU                | Hydrophytic Vegetation   | on Indicators:  |
| 4. Erigeron philadelphicus  | 10                  |               |                          | FACW                | 1 - Rapid Test for H   |   |
| 5. Cichorium intybus  | 5                   |               |                          | FACU                | 2 - Dominance Tes  |   |
| 6   |                     |               |                          |                     | 3 - Prevalence Inde  | ex is ≤3.0°<br>Adaptations¹ (Provide supporting       |
| 7   |                     |               |                          |                     | data in Remarks  | s or on a separate sheet)                             |
| 8   |                     |               |                          |                     | Problematic Hydrop   | phytic Vegetation¹ (Explain)                          |
| 9   |                     |               |                          |                     |  |   |
| Woody Vine Stratum (Plot size: 30 ft r                            | 100%                | = Tota        | al Cov                   | er                  | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu | l and wetland hydrology must<br>irbed or problematic. |
| 1   |                     |               |                          |                     | Hydrophytic  |   |
| 2   |                     |               |                          |                     | Vegetation   | •   |
|   |                     | = Tota        | al Cov                   | er                  | Present? Yes   | s No  |
| Remarks: (Include photo numbers here or on a separate s           | heet.)              |               |                          |                     |  |   |
| Hydrophytic vegetation absent.                                    |                     |               |                          |                     |  |   |
|   |                     |               |                          |                     |  |   |

SOIL Sampling Point: 1-AM UPL

| Profile Description: (Describe to the depth n   | eeded to document the indicator or cor          | nfirm the absence of indicators.)                                      |
|---|---|--|
| Depth Matrix  | Redox Features                                  |  |
| (inches) Color (moist) %  | Color (moist) % Type <sup>1</sup> Loc           |  |
| 0 - 4 10YR 3/3 100  |   | Silty Clay Gravel inclusions   |
| -   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
| _   |   |  |
| <sup>1</sup> Type: C=Concentration, D=Depletion, RM=Re  | duced Matrix MS=Masked Sand Grains              | <sup>2</sup> Location: PL=Pore Lining, M=Matrix.                       |
| Hydric Soil Indicators:   | adood mana, mo maoked oand Graine.              | Indicators for Problematic Hydric Soils <sup>3</sup> :                 |
| Histosol (A1)   | Sandy Gleyed Matrix (S4)                        | Coast Prairie Redox (A16)  |
| Histic Epipedon (A2)  | Sandy Redox (S5)                                | Dark Surface (S7)  |
| Black Histic (A3)   | Stripped Matrix (S6)                            | Iron-Manganese Masses (F12)  |
| Hydrogen Sulfide (A4)   | Loamy Mucky Mineral (F1)                        | Very Shallow Dark Surface (TF12)                                       |
| Stratified Layers (A5)  | Loamy Gleyed Matrix (F2)                        | Other (Explain in Remarks)   |
| 2 cm Muck (A10)   | Depleted Matrix (F3)                            |  |
| Depleted Below Dark Surface (A11)   | Redox Dark Surface (F6)                         | 3  |
| Thick Dark Surface (A12)  | Depleted Dark Surface (F7)                      | <sup>3</sup> Indicators of hydrophytic vegetation and                  |
| Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)   | Redox Depressions (F8)                          | wetland hydrology must be present,<br>unless disturbed or problematic. |
| Restrictive Layer (if observed):  |   | unless distalbed of problematic.                                       |
| Type: Gravel  |   |  |
| Depth (inches): 4   | -   | Hydric Soil Present? Yes No  |
| Remarks:  | -   |  |
| Hydric soil absent.   |   |  |
| HYDROLOGY   |   |  |
| Wetland Hydrology Indicators:   |   |  |
| Primary Indicators (minimum of one is required;   | check all that apply)                           | Secondary Indicators (minimum of two required)                         |
| Surface Water (A1)  | Water-Stained Leaves (B9)                       | Surface Soil Cracks (B6)   |
| High Water Table (A2)   | Aquatic Fauna (B13)                             | Drainage Patterns (B10)  |
| Saturation (A3)   | True Aquatic Plants (B14)                       | Dry-Season Water Table (C2)  |
| Water Marks (B1)  | Hydrogen Sulfide Odor (C1)                      | Crayfish Burrows (C8)  |
| Sediment Deposits (B2)  | Oxidized Rhizospheres on Living Ro              | oots (C3) Saturation Visible on Aerial Imagery (C9)                    |
| Drift Deposits (B3)   | Presence of Reduced Iron (C4)                   | Stunted or Stressed Plants (D1)  |
| Algal Mat or Crust (B4)   | Recent Iron Reduction in Tilled Soils           | s (C6) Geomorphic Position (D2)  |
| Iron Deposits (B5)  | Thin Muck Surface (C7)                          | FAC-Neutral Test (D5)  |
| Inundation Visible on Aerial Imagery (B7)   | Gauge or Well Data (D9)                         |  |
| Sparsely Vegetated Concave Surface (B8)   | Other (Franciscie Personales)                   |  |
| oparacity regulated contents carriace (Bo)  | Other (Explain in Remarks)                      |  |
| Field Observations:   |   |  |
| Field Observations: Surface Water Present? Yes No   | Depth (inches):                                 |  |
| Field Observations: Surface Water Present? Yes No   |   |  |
| Field Observations:  Surface Water Present? Yes No  Water Table Present? Yes No   | Depth (inches): Depth (inches):                 | Wetland Hydrology Present? Yes No✔_                                    |
| Field Observations:  Surface Water Present? Yes No _ Water Table Present? Yes No _ Saturation Present? Yes No _ (includes capillary fringe)   | Depth (inches): Depth (inches): Depth (inches): |  |
| Field Observations:           Surface Water Present?         Yes No _           Water Table Present?         Yes No _           Saturation Present?         Yes No _                                  | Depth (inches): Depth (inches): Depth (inches): |  |
| Field Observations:  Surface Water Present? Yes No _ Water Table Present? Yes No _ Saturation Present? Yes No _ (includes capillary fringe)  Describe Recorded Data (stream gauge, monitor)           | Depth (inches): Depth (inches): Depth (inches): |  |
| Field Observations:  Surface Water Present? Yes No _ Water Table Present? Yes No _ Saturation Present? Yes No _ (includes capillary fringe)   | Depth (inches): Depth (inches): Depth (inches): |  |
| Field Observations:  Surface Water Present? Yes No _ Water Table Present? Yes No _ Saturation Present? Yes No _ (includes capillary fringe)  Describe Recorded Data (stream gauge, monitor)  Remarks: | Depth (inches): Depth (inches): Depth (inches): |  |
| Field Observations:  Surface Water Present? Yes No _ Water Table Present? Yes No _ Saturation Present? Yes No _ (includes capillary fringe)  Describe Recorded Data (stream gauge, monitor)           | Depth (inches): Depth (inches): Depth (inches): |  |

| Project/Site: AEP Fostoria to Lima                                | <sub>ınty:</sub> <u>Lima/Al</u> | len                  | Sampling Date: 2022-07-05 |   |  |
|---|---------------------------------|----------------------|---------------------------|---|--|
| Applicant/Owner: AEP  | State: Ohio                     | Sampling Point: 1-AN |                           |   |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   | ;                               | Section,             | Township, Ra              | <sub>nge:</sub> OH01 T3S R7E S                  | 5N11   |
| Landform (hillslope, terrace, etc.): Depression Toeslope          | <del>)</del>                    |                      | _ Local relief            | Concave   |  |
| Slope (%): 2 Lat: 40.801761                                       | ا                               | Long: _              | 84.026286                 |   | Datum: WGS 84  |
| Soil Map Unit Name: PmA   |                                 |                      |                           | NWI classific                                   | ation: N/A   |
| Are climatic / hydrologic conditions on the site typical for this | time of yea                     | ar? Yes              | No_                       | (If no, explain in R                            | emarks.)   |
| Are Vegetation, Soil, or Hydrology signature.                     | gnificantly o                   | disturbe             | d? Are "                  | 'Normal Circumstances" p                        | resent? Yes No   |
| Are Vegetation, Soil, or Hydrology na                             | aturally prol                   | blematic             | ? (If ne                  | eeded, explain any answei                       | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map s                           | howing                          | samp                 | ling point l              | ocations, transects                             | , important features, etc.   |
| Hydrophytic Vegetation Present? Yes No                            | ·                               |                      |                           |   |  |
| Hydric Soil Present? Yes No                                       |                                 |                      | s the Sampled             |   | Ma   |
| Wetland Hydrology Present? Yes V No Remarks:                      | <u> </u>                        | w                    | vithin a Wetlar           | id? Yes   | No   |
|   |                                 |                      |                           |   |  |
| PEM. ORAM score of 32.  |                                 |                      |                           |   |  |
| VEGETATION – Use scientific names of plants.                      |                                 |                      |                           |   |  |
| Tree Stratum (Plot size: 30 ft r )                                | Absolute                        |                      | ant Indicator             | Dominance Test work                             |  |
| 1   |                                 |                      | s? Status                 | Number of Dominant Sp<br>That Are OBL, FACW, of | _  |
| 2.  |                                 |                      |                           | Total Number of Domina                          |  |
| 3   |                                 |                      |                           | Species Across All Stra                         | _  |
| 4   |                                 |                      |                           | Percent of Dominant Sp                          | pecies   |
| 5   |                                 |                      |                           | That Are OBL, FACW, o                           |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                                 | = Total              | Cover                     | Prevalence Index work                           | ksheet:  |
| 1   |                                 |                      |                           | Total % Cover of:                               |  |
| 2   |                                 |                      |                           |   | x 1 = 40   |
| 3   |                                 |                      |                           |   | x 2 = 120  |
| 4   |                                 |                      |                           |   | x 3 = 60   |
| 5   |                                 |                      |                           |   | x = 0  |
| Herb Stratum (Plot size: 5 ft r )                                 |                                 | = Total              | Cover                     | UPL species 0 Column Totals: 120                | $\times 5 = \frac{0}{220}$ (B)   |
| 1. Carex vulpinoidea  | 40                              |                      | FACW                      |   | (-)  |
| 2. Carex tribuloides  | 20                              |                      | OBL                       | Prevalence Index                                | = B/A = <u>1.83</u>  |
| 3. Rumex crispus  | 20                              |                      | FAC                       | Hydrophytic Vegetation                          | on Indicators:   |
| 4. Scirpus atrovirens   | 20                              |                      | OBL                       | l — ·   | lydrophytic Vegetation   |
| 5   |                                 |                      |                           | 2 - Dominance Tes                               |  |
| 6   |                                 |                      |                           | 3 - Prevalence Inde                             |  |
| 7   |                                 |                      |                           | data in Remarks                                 | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |
| 8   |                                 |                      |                           | 1   | ohytic Vegetation¹ (Explain)   |
| 9   |                                 |                      |                           |   |  |
| 10  | 100%                            | = Total (            | Cover                     |   | l and wetland hydrology must   |
| Woody Vine Stratum (Plot size: 30 ft r )                          |                                 |                      |                           | be present, unless distu                        | irbed or problematic.  |
| 1. Vitis riparia  | 20                              |                      | FACW_                     | Hydrophytic                                     |  |
| 2   | 20%                             |                      |                           | Vegetation   Yes                                | s No   |
| Pomarke: (Include photo numbers have as an a constant             |                                 | = Total              | Cover                     |   |  |
| Remarks: (Include photo numbers here or on a separate si          | neet.)                          |                      |                           |   |  |
| Hydrophytic vegetation present.                                   |                                 |                      |                           |   |  |
|   |                                 |                      |                           |   |  |

SOIL Sampling Point: 1-AN

| Profile Desc               | ription: (Describe                              | to the depth      | needed to docur     | nent the    | indicator          | or confirn          | n the absence of                                    | indicators.)                              |  |  |  |
|----------------------------|---|-------------------|---------------------|-------------|--------------------|---------------------|---|---|--|--|--|
| Depth                      | Matrix  |                   |                     | x Feature   | s                  |                     |   |   |  |  |  |
| (inches)                   | Color (moist)                                   |                   | Color (moist)       | %           | _Type <sup>1</sup> | _Loc <sup>2</sup> _ | Texture   | Remarks                                   |  |  |  |
| 0 - 20                     | 10YR 5/2  | 85 10             | OYR 5/6             | _ <u>15</u> | <u> </u>           | PL / M              | Silty Clay  |   |  |  |  |
| -                          |   |                   |                     |             |                    |                     |   |   |  |  |  |
|                            |   |                   |                     |             |                    |                     |   |   |  |  |  |
|                            |   |                   |                     |             |                    |                     |   |   |  |  |  |
| l — -                      |   |                   |                     | - —         |                    |                     |   |   |  |  |  |
|                            |   |                   |                     |             |                    |                     |   |   |  |  |  |
| -                          |   |                   |                     |             |                    |                     |   |   |  |  |  |
|                            |   |                   |                     |             |                    |                     |   |   |  |  |  |
| 1Type: C=C                 | oncentration, D=De                              | olotion PM-Re     | duced Matrix M      | S-Masko     | d Sand Gr          | oine                | 2l ocation: F                                       | PL=Pore Lining, M=Matrix.                 |  |  |  |
| Hydric Soil                |   | DIELIOII, KIVI-KE | educed Matrix, Mi   | 3-Masket    | J Sand Gi          | all is.             |   | r Problematic Hydric Soils <sup>3</sup> : |  |  |  |
| Histosol                   |   |                   | Sandy (             | Gleyed Ma   | atriv (SA)         |                     |   | airie Redox (A16)                         |  |  |  |
| ı —                        | oipedon (A2)                                    |                   |                     | Redox (S5   |                    |                     | Dark Sur  | . ,                                       |  |  |  |
| ı —                        | stic (A3)                                       |                   |                     | d Matrix (S |                    |                     |   | ganese Masses (F12)                       |  |  |  |
| ı —                        | n Sulfide (A4)                                  |                   |                     |             | neral (F1)         |                     |   | illow Dark Surface (TF12)                 |  |  |  |
|                            | Layers (A5)                                     |                   |                     | Gleyed Ma   |                    |                     |   | kplain in Remarks)                        |  |  |  |
| 2 cm Mu                    | ıck (A10)                                       |                   | Deplete             | d Matrix (  | F3)                |                     |   |   |  |  |  |
| Depleted                   | d Below Dark Surfac                             | ce (A11)          | Redox [             | Dark Surfa  | ace (F6)           |                     |   |   |  |  |  |
| I —                        | ark Surface (A12)                               |                   |                     |             | ırface (F7         | )                   |   | f hydrophytic vegetation and              |  |  |  |
| 1 — 1                      | Sandy Mucky Mineral (S1) Redox Depressions (F8) |                   |                     |             |                    |                     |   | ydrology must be present,                 |  |  |  |
|                            | icky Peat or Peat (S                            |                   |                     |             |                    |                     | unless di   | sturbed or problematic.                   |  |  |  |
|                            | Layer (if observed)                             |                   |                     |             |                    |                     |   |   |  |  |  |
|                            |   |                   | _                   |             |                    |                     | Hydric Soil Pr                                      | resent? Yes No                            |  |  |  |
| Depth (in                  | ches):  |                   | _                   |             |                    |                     | 11,411.0 00 1                                       |   |  |  |  |
| Remarks:                   |   |                   |                     |             |                    |                     |   |   |  |  |  |
| Hydric                     | soil present.                                   |                   |                     |             |                    |                     |   |   |  |  |  |
| i iyanc .                  | on present.                                     |                   |                     |             |                    |                     |   |   |  |  |  |
|                            |   |                   |                     |             |                    |                     |   |   |  |  |  |
|                            |   |                   |                     |             |                    |                     |   |   |  |  |  |
| <b>HYDROLO</b>             | GY  |                   |                     |             |                    |                     |   |   |  |  |  |
| Wetland Hy                 | drology Indicators                              | :                 |                     |             |                    |                     |   |   |  |  |  |
| 1                          | cators (minimum of                              |                   | : check all that an | oply)       |                    |                     | Secondary   | Indicators (minimum of two required)      |  |  |  |
| Surface                    | Water (A1)                                      | •                 | Water-Sta           | ined Leav   | es (B9)            |                     | Surfac  | e Soil Cracks (B6)                        |  |  |  |
| _                          | iter Table (A2)                                 |                   | Aquatic Fa          |             | , ,                |                     |   | , ,                                       |  |  |  |
| Saturation                 |   |                   | True Aqua           |             |                    |                     | Drainage Patterns (B10) Dry-Season Water Table (C2) |   |  |  |  |
| Water M                    | ,   |                   | Hydrogen            |             |                    |                     | _ ′   | sh Burrows (C8)                           |  |  |  |
| 1                          | nt Deposits (B2)                                |                   | ✓ Oxidized F        |             |                    | ing Roots           |   | tion Visible on Aerial Imagery (C9)       |  |  |  |
| 1                          | posits (B3)                                     |                   | Presence            |             |                    |                     |   | d or Stressed Plants (D1)                 |  |  |  |
| 1                          | at or Crust (B4)                                |                   | Recent Iro          |             |                    |                     |   | orphic Position (D2)                      |  |  |  |
| Iron Dep                   | , ,   |                   | Thin Muck           |             |                    |                     |   | leutral Test (D5)                         |  |  |  |
| I — ·                      | on Visible on Aerial                            | Imagery (B7)      | Gauge or            |             |                    |                     |   |   |  |  |  |
| ı —                        | Vegetated Concav                                | 0 , , ,           |                     |             |                    |                     |   |   |  |  |  |
| Field Obser                |   |                   |                     |             |                    |                     |   |   |  |  |  |
| Surface Wat                |   | /es No            | Depth (in           | ches).      |                    |                     |   |   |  |  |  |
| Water Table                | Present?  | /es No            | Depth (in           | chee):      |                    | _                   |   |   |  |  |  |
|                            |   |                   |                     |             |                    |                     | and the dealers of                                  |   |  |  |  |
| Saturation P (includes car |   | res No            | Depth (in           | cnes):      |                    | _   weti            | and Hydrology F                                     | Present? Yes No                           |  |  |  |
|                            | corded Data (stream                             | n gauge, monit    | oring well, aerial  | photos, pr  | evious ins         | spections),         | if available:                                       |   |  |  |  |
|                            |   |                   |                     |             |                    |                     |   |   |  |  |  |
| Remarks:                   |   |                   |                     |             |                    |                     |   |   |  |  |  |
|                            |   |                   |                     |             |                    |                     |   |   |  |  |  |
| wetiand                    | l hydrology                                     | present.          |                     |             |                    |                     |   |   |  |  |  |
|                            |   |                   |                     |             |                    |                     |   |   |  |  |  |
|                            |   |                   |                     |             |                    |                     |   |   |  |  |  |

| Project/Site: AEP Fostoria to Lima                                | .ima/All                       | len     | Sampling Date: 2022-07-05 |            |   |   |
|---|--------------------------------|---------|---------------------------|------------|---|---|
| Applicant/Owner: AEP  |                                |         |                           |            |   | Sampling Point: 1-AN UPL                    |
| Investigator(s): Beth Hollinden, Chris Davisson                   |                                | Section | n, Town                   | ship, Rar  | <sub>nge:</sub> OH01 T3S R7E S                  | 5N11  |
| Landform (hillslope, terrace, etc.): Flat                         |                                |         | Loc                       | cal relief | (concave, convex, none):                        | None  |
| Slope (%): 0 Lat: 40.801561 Long: -84.0                           |                                |         |                           |            |   | Datum: WGS 84                               |
| Soil Map Unit Name: Ble1B1  |                                |         |                           |            | NWI classific                                   | ation: N/A                                  |
| Are climatic / hydrologic conditions on the site typical for this |                                |         |                           |            |   |   |
| Are Vegetation, Soil, or Hydrology si                             | gnificantly o                  | disturb | ed?                       | Are "      | Normal Circumstances" p                         | resent? Yes No                              |
| Are Vegetation, Soil, or Hydrology na                             | aturally prol                  | blemat  | tic?                      | (If ne     | eded, explain any answe                         | rs in Remarks.)                             |
| SUMMARY OF FINDINGS - Attach site map s                           | showing                        | samı    | pling                     | point lo   | ocations, transects                             | , important features, etc.                  |
| Hydrophytic Vegetation Present? Yes No                            | , <u> </u>                     |         |                           |            |   |   |
| Hydric Soil Present? Yes No                                       |                                |         |                           | Sampled    |   |   |
| Wetland Hydrology Present? Yes No                                 | <u> </u>                       |         | within                    | a Wetlan   | nd? Yes   | No  |
| Remarks:  |                                |         |                           |            |   |   |
| Upland point for Wetland 1-AN.                                    |                                |         |                           |            |   |   |
| VEGETATION – Use scientific names of plants.                      |                                |         |                           |            |   |   |
| 20 # *  | Absolute                       |         | inant In                  |            | Dominance Test work                             | sheet:                                      |
| Tree Stratum (Plot size: 30 ft r ) 1.                             | % Cover                        |         |                           | Status_    | Number of Dominant Sp<br>That Are OBL, FACW, of | •   |
| 2   |                                |         |                           |            | Total Number of Domin                           | ant   |
| 3   |                                |         |                           |            | Species Across All Stra                         | _   |
| 4   |                                |         | — –                       |            | Percent of Dominant Sp                          |   |
| 5   |                                |         | L Cover                   |            | That Are OBL, FACW, o                           | or FAC: $0$ (A/B)                           |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                                | - 1014  | 00401                     |            | Prevalence Index worl                           | ksheet:                                     |
| 1   |                                |         |                           |            | Total % Cover of:                               |   |
| 2   |                                |         |                           |            |   | x 1 = 0                                     |
| 3   |                                |         |                           |            |   | x 2 = 0<br>x 3 = 0                          |
| 4   |                                |         |                           |            |   | $\times 4 = 400$                            |
| 5   |                                |         |                           |            | UPL species 0                                   | x 5 = 0                                     |
| Herb Stratum (Plot size: 5 ft r )                                 |                                |         |                           |            | Column Totals: 100                              | (A) 400 (B)                                 |
| 1. Dipsacus fullonum 2. Solidago canadensis                       | <del>80</del><br><del>20</del> |         |                           | ACU        |   | = B/A = <u>4.00</u>                         |
|   |                                |         |                           | ACU_       | Hydrophytic Vegetation                          |   |
| 3   |                                |         |                           |            | 1 - Rapid Test for H                            |   |
| 4   |                                |         |                           |            | 2 - Dominance Tes                               | , , , ,                                     |
| 5<br>6  |                                |         |                           |            | 3 - Prevalence Inde                             |   |
| 7   |                                |         |                           |            | 4 - Morphological A                             | daptations <sup>1</sup> (Provide supporting |
| 8.  |                                |         |                           |            | data in Remarks                                 | s or on a separate sheet)                   |
| 9.  |                                |         |                           |            | Problematic Hydror                              | ohytic Vegetation <sup>1</sup> (Explain)    |
| 10  |                                |         |                           |            | <sup>1</sup> Indicators of hydric soil          | l and wetland hydrology must                |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 100%                           | = Tota  | l Cover                   |            | be present, unless distu                        |   |
| 1   |                                |         |                           |            | Hydrophytic                                     |   |
| 2   |                                |         |                           |            | Vegetation<br>  Present? Yes                    | s No  |
| Remarks: (Include photo numbers here or on a separate s           |                                | = Tota  | l Cover                   |            |   |   |
|   |                                |         |                           |            |   |   |
| Hydrophytic vegetation absent.                                    |                                |         |                           |            |   |   |

SOIL Sampling Point: 1-AN UPL

| Profile Desc           | ription: (Describe                     | to the depth      | needed to docur        | nent the    | indicator                | or confirm        | n the absence of in       | dicators.)                               |
|------------------------|--|-------------------|------------------------|-------------|--------------------------|-------------------|---------------------------|--|
| Depth                  | Matrix                                 |                   |                        | x Feature   |                          |                   |                           |  |
| (inches)               | Color (moist)                          | %                 | Color (moist)          | %           | _Type <sup>1</sup>       | _Loc <sup>2</sup> |                           | Remarks                                  |
| 0 - 20                 | 10YR 6/3                               | <u>97</u> 1       | 0YR 5/6                | 3           | <u>C</u>                 | <u>M</u>          | Silty Clay                |  |
| -                      |  |                   |                        |             |                          |                   |                           |  |
|                        |  |                   |                        |             |                          |                   |                           |  |
|                        |  |                   |                        |             |                          |                   |                           |  |
|                        |  |                   |                        |             |                          |                   |                           |  |
| <u> </u>               |  |                   |                        |             |                          |                   |                           |  |
| <u> </u>               |  |                   |                        |             |                          |                   |                           |  |
|                        |  |                   |                        |             |                          |                   |                           |  |
| <sup>1</sup> Type: C=C | oncentration, D=De                     | pletion, RM=R     | teduced Matrix, MS     | S=Masked    | d Sand Gr                | ains.             | <sup>2</sup> Location: PL | =Pore Lining, M=Matrix.                  |
| Hydric Soil            | Indicators:                            |                   |                        |             |                          |                   | Indicators for F          | Problematic Hydric Soils <sup>3</sup> :  |
| Histosol               | . ,                                    |                   |                        | -           | atrix (S4)               |                   | _                         | e Redox (A16)                            |
| ı —                    | oipedon (A2)                           |                   |                        | Redox (S5   |                          |                   | Dark Surfac               | • •                                      |
| ı —                    | stic (A3)                              |                   |                        | Matrix (S   | ,                        |                   |                           | nese Masses (F12)                        |
|                        | en Sulfide (A4)<br>d Layers (A5)       |                   |                        |             | neral (F1)<br>atrix (F2) |                   |                           | w Dark Surface (TF12)<br>ain in Remarks) |
| ı —                    | ick (A10)                              |                   |                        | d Matrix (  |                          |                   | Other (Expi               | all III (Ciliaiks)                       |
| _                      | d Below Dark Surfac                    | ce (A11)          |                        | Dark Surfa  |                          |                   |                           |  |
| ı —                    | ark Surface (A12)                      | ,                 | _                      |             | urface (F7               | )                 | 3Indicators of hy         | ydrophytic vegetation and                |
| Sandy M                | lucky Mineral (S1)                     |                   | Redox [                | Depressio   | ns (F8)                  |                   | wetland hyd               | rology must be present,                  |
|                        | icky Peat or Peat (S                   |                   |                        |             |                          |                   | unless distu              | rbed or problematic.                     |
| Restrictive I          | Layer (if observed)                    | ):                |                        |             |                          |                   |                           |  |
|                        |  |                   | _                      |             |                          |                   | Hydric Soil Pres          | ent? Yes No                              |
| Depth (in              | ches):                                 |                   | _                      |             |                          |                   | Tryuno con rico           | 163 <u> </u>                             |
| Remarks:               |  |                   |                        |             |                          |                   |                           |  |
| Hydric                 | soil absent.                           |                   |                        |             |                          |                   |                           |  |
| Try dirio .            | on aboon.                              |                   |                        |             |                          |                   |                           |  |
|                        |  |                   |                        |             |                          |                   |                           |  |
|                        |  |                   |                        |             |                          |                   |                           |  |
| HYDROLO                | GY                                     |                   |                        |             |                          |                   |                           |  |
| Wetland Hy             | drology Indicators                     | :                 |                        |             |                          |                   |                           |  |
| Primary India          | cators (minimum of                     | one is required   | d; check all that ap   | ply)        |                          |                   | Secondary In              | dicators (minimum of two required)       |
| Surface                | Water (A1)                             |                   | Water-Sta              | ned Leav    | res (B9)                 |                   | Surface S                 | Soil Cracks (B6)                         |
| High Wa                | ater Table (A2)                        |                   | Aquatic Fa             | una (B13    | 3)                       |                   | Drainage                  | Patterns (B10)                           |
| Saturation             | on (A3)                                |                   | True Aqua              | tic Plants  | (B14)                    |                   | Dry-Seas                  | son Water Table (C2)                     |
| Water M                | larks (B1)                             |                   | Hydrogen               | Sulfide O   | dor (C1)                 |                   | Crayfish                  | Burrows (C8)                             |
| Sedimer                | nt Deposits (B2)                       |                   | Oxidized F             | Rhizosphe   | eres on Liv              | ing Roots         | (C3) Saturatio            | n Visible on Aerial Imagery (C9)         |
| Drift Dep              | oosits (B3)                            |                   | Presence               | of Reduce   | ed Iron (C               | 4)                | Stunted of                | or Stressed Plants (D1)                  |
| Algal Ma               | at or Crust (B4)                       |                   | Recent Iro             | n Reduct    | ion in Tille             | d Soils (C        | 6) Geomorp                | hic Position (D2)                        |
| Iron Dep               | oosits (B5)                            |                   | Thin Muck              | Surface     | (C7)                     |                   | FAC-Neu                   | tral Test (D5)                           |
| Inundati               | on Visible on Aerial                   | Imagery (B7)      | Gauge or '             | Well Data   | (D9)                     |                   |                           |  |
| Sparsely               | Vegetated Concav                       | e Surface (B8     | B) Other (Exp          | lain in Re  | emarks)                  |                   |                           |  |
| Field Obser            |  |                   |                        |             |                          |                   |                           |  |
| Surface Wat            |  |                   | Depth (in              |             |                          |                   |                           |  |
| Water Table            | Present?                               | Yes No            | Depth (in              | ches):      |                          | _                 |                           |  |
| Saturation P           |  | Yes No            | Depth (in              | ches):      |                          | Wetl              | and Hydrology Pre         | sent? Yes No                             |
| (includes cap          | oillary fringe)<br>corded Data (strean | n dalide moni     | itoring well aerial    | nhotos ni   | revious in               | enections)        | if available:             |  |
| Describe Ne            | corded Data (Stream                    | ii gauge, iiioiii | itoring well, aeriai į | oriotos, pi | evious iris              | spections),       | ii avallable.             |  |
| Remarks:               |  |                   |                        |             |                          |                   |                           |  |
|                        |  |                   |                        |             |                          |                   |                           |  |
| Wetland                | l hydrology                            | absent.           |                        |             |                          |                   |                           |  |
|                        |  |                   |                        |             |                          |                   |                           |  |
|                        |  |                   |                        |             |                          |                   |                           |  |

| Project/Site: AEP Fostoria to Lima          |                | (  | City/County: Arcadia/Hancock Sampling Date: 2022-06- |         |            |   |  |  |
|---|----------------|--|--|---------|------------|---|--|--|
| Applicant/Owner: AEP                        |                |  |  |         |            | State: Ohio                                       | Sampling Point:  | 1-B  |
| Investigator(s): Beth Hollinden, Chris      | Davissor       | <u>1                                    </u> | Section  | n, Towi | nship, Rar | nge: OH01 T2N R12E                                | SN18   |  |
| Landform (hillslope, terrace, etc.): Depre  | ssion Toe      | slope  |  | Lo      | cal relief | (concave, convex, none):                          | Concave  |  |
| Slope (%): 2 Lat: 41.125137                 | <b>'</b>       |  | Long:  | -83.5   | 17558      |   | Datum: WGS 8   | 34   |
| Soil Map Unit Name: PmA                     |                |  |  |         |            | NWI classific                                     | ation: R2UBH   |  |
| Are climatic / hydrologic conditions on the | site typical f | or this time of yea                          | ar? Ye   | es      | No         | (If no, explain in R                              | emarks.)   |  |
| Are Vegetation, Soil, or Hyd                | drology        | significantly                                | disturb  | ed?     | Are "      | Normal Circumstances" p                           | resent? Yes  | No   |
| Are Vegetation, Soil, or Hyd                | drology        | naturally pro                                | blemat   | tic?    | (If ne     | eded, explain any answe                           | rs in Remarks.)  |  |
| SUMMARY OF FINDINGS - Atta                  | ch site n      | nap showing                                  | sam  | pling   | point lo   | ocations, transects                               | , important fe   | eatures, etc.                                |
| Hydrophytic Vegetation Present?             | Yes _ 🗸        | No   |  |         |            |   |  |  |
|   |                | No   |  |         | Sampled    |   |  |  |
|   | Yes            | No   |  | within  | a Wetlan   | id? Yes   | No   | -  |
| Remarks:                                    |                |  |  |         |            |   |  |  |
| PEM. ORAM Score of 21.                      |                |  |  |         |            |   |  |  |
| VEGETATION – Use scientific nar             | nes of pla     | ants.  |  |         |            |   |  |  |
| Tree Stratum (Plot size: 30 ft r            | `              | Absolute                                     |  |         | ndicator   | Dominance Test work                               | sheet:   |  |
| 1   | )              | <u>% Cover</u>                               |  |         |            | Number of Dominant Sp<br>That Are OBL, FACW, of   |  | (A)  |
| 2   |                |  |  |         |            | , ,   |  | (//  |
| 3.  |                |  |  |         |            | Total Number of Domini<br>Species Across All Stra |  | (B)  |
| 4   |                |  |  |         |            | Percent of Dominant Sp                            | pecies   |  |
| 5   |                | 0.07   |  |         |            | That Are OBL, FACW, o                             |  | (A/B)  |
| Sapling/Shrub Stratum (Plot size: 15 ft     | r              |  | = Tota   | I Cove  | r          | Prevalence Index work                             | ksheet:  |  |
| 1   |                |  |  |         |            | Total % Cover of:                                 |  | ly by:                                       |
| 2   |                |  |  |         |            |   | x 1 = 0  |  |
| 3   |                |  |  |         |            |   | x 2 = 180  | <u>)                                    </u> |
| 4   |                |  |  | — -     |            |   | x 3 = 0  |  |
| 5   |                |  |  |         |            | FACU species 10 UPL species 0                     | $     \begin{array}{r}                                     $ |  |
| Herb Stratum (Plot size: 5 ft r             | )              |  | = Tota   | I Cove  |            | Column Totals: 100                                | $(A)$ $\frac{x}{22}$   |  |
| 1. Phalaris arundinacea                     |                | 90   |  |         | ACW        |   | ( , ,  | (5)  |
| 2. Cirsium arvense                          |                | 10   |  |         | ACU_       | Prevalence Index                                  |  |  |
| 3   |                |  |  |         |            | Hydrophytic Vegetatio                             |  | tation                                       |
| 4   |                |  |  |         |            | 1 - Rapid Test for F 2 - Dominance Tes            |  | tation                                       |
| 5   |                |  |  |         |            | 3 - Prevalence Inde                               |  |  |
| 6<br>7                                      |                |  |  |         |            | 4 - Morphological A                               | Adaptations <sup>1</sup> (Prov                               | vide supporting                              |
| 8.  |                |  |  |         |            | data in Remarks                                   | s or on a separate   | e sheet)                                     |
| 9.  |                |  |  |         |            | Problematic Hydrop                                | ohytic Vegetation  | ¹ (Explain)                                  |
| 10  |                |  |  |         |            | Indicators of hydric soil                         | l and watland hve  | dralagu must                                 |
| Woody Vine Stratum (Plot size: 30 ft r      | )              | 100%   | = Tota   | I Cove  | r          | be present, unless distu                          |  |  |
| 1.  |                |  |  |         |            | Hydrophytic                                       |  |  |
| 2   |                |  |  |         |            | Vegetation<br>Present? Yes                        | s No_  |  |
|   |                |  | = Tota   | I Cove  | r          | Fresent? Yes                                      | - NO_  |  |
| Remarks: (Include photo numbers here of     |                | ,  |  |         |            |   |  |  |
| Hydrophytic vegetation p                    | resent         | . <b>.</b>                                   |  |         |            |   |  |  |

SOIL Sampling Point: 1-B

| Profile Desc               | ription: (Describe               | to the depth   | needed to docum        | nent the                 | indicator          | or confirn        | n the absence of i         | indicators.)                            |
|----------------------------|----------------------------------|----------------|------------------------|--------------------------|--------------------|-------------------|----------------------------|---|
| Depth                      | Matrix                           |                |                        | x Feature                |                    |                   |                            | •                                       |
| (inches)                   | Color (moist)                    | %              | Color (moist)          | %                        | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                    | Remarks                                 |
| 0 - 20                     | 10YR 5/2                         | 95             | 10YR 6/8               | 5                        | <u>C</u>           | <u>M</u>          | Silty Clay Loam            |   |
| -                          |                                  |                |                        |                          |                    |                   |                            |   |
|                            |                                  |                |                        |                          |                    |                   |                            |   |
|                            |                                  |                |                        |                          |                    |                   |                            |   |
| l — -                      |                                  |                |                        |                          | - ——               |                   |                            |   |
|                            |                                  |                |                        |                          |                    |                   |                            |   |
|                            |                                  |                |                        |                          |                    |                   |                            |   |
| -                          |                                  |                |                        |                          |                    |                   |                            |   |
| <sup>1</sup> Type: C=C     | oncentration, D=Dep              | oletion. RM=F  | Reduced Matrix, MS     | S=Masked                 | d Sand Gr          | ains.             | <sup>2</sup> Location: P   | L=Pore Lining, M=Matrix.                |
| Hydric Soil                |                                  | ,              | ,                      |                          |                    |                   |                            | Problematic Hydric Soils <sup>3</sup> : |
| Histosol                   | (A1)                             |                | Sandy C                | Sleyed Ma                | atrix (S4)         |                   | Coast Pra                  | irie Redox (A16)                        |
| Histic E                   | oipedon (A2)                     |                | Sandy F                | Redox (S5                | 5)                 |                   | Dark Surfa                 | ace (S7)                                |
| ı —                        | istic (A3)                       |                |                        | Matrix (                 | ,                  |                   |                            | anese Masses (F12)                      |
|                            | en Sulfide (A4)                  |                |                        |                          | neral (F1)         |                   |                            | low Dark Surface (TF12)                 |
| I —                        | d Layers (A5)                    |                |                        | -                        | atrix (F2)         |                   | Other (Exp                 | plain in Remarks)                       |
| _                          | ıck (A10)<br>d Below Dark Surfac | · (Δ11)        |                        | d Matrix (<br>Dark Surfa | -                  |                   |                            |   |
| ı —                        | ark Surface (A12)                | æ (A11)        | _                      |                          | urface (F7         | )                 | <sup>3</sup> Indicators of | hydrophytic vegetation and              |
| _                          | flucky Mineral (S1)              |                |                        | Depressio                | ,                  | ,                 |                            | drology must be present,                |
| 5 cm Mu                    | ıcky Peat or Peat (S             | 3)             | _                      | ·                        | ` '                |                   |                            | turbed or problematic.                  |
| Restrictive                | Layer (if observed)              | :              |                        |                          |                    |                   |                            |   |
| Type:                      |                                  |                | _                      |                          |                    |                   | Unidade Cell Day           |   |
| Depth (in                  | ches):                           |                | _                      |                          |                    |                   | Hydric Soil Pre            | esent? Yes No                           |
| Remarks:                   |                                  |                |                        |                          |                    |                   |                            |   |
| Hydric                     | soil present.                    |                |                        |                          |                    |                   |                            |   |
| Tiyunc                     | son present.                     |                |                        |                          |                    |                   |                            |   |
|                            |                                  |                |                        |                          |                    |                   |                            |   |
|                            |                                  |                |                        |                          |                    |                   |                            |   |
| HYDROLO                    | GY                               |                |                        |                          |                    |                   |                            |   |
| Wetland Hy                 | drology Indicators               | :              |                        |                          |                    |                   |                            |   |
| Primary India              | cators (minimum of               | one is require | d; check all that ap   | ply)                     |                    |                   | Secondary I                | ndicators (minimum of two required)     |
| ✓ Surface                  | Water (A1)                       |                | Water-Stai             | ned Leav                 | res (B9)           |                   | Surface                    | Soil Cracks (B6)                        |
| High Wa                    | ater Table (A2)                  |                | Aquatic Fa             | iuna (B13                | 3)                 |                   | Drainag                    | ge Patterns (B10)                       |
| ✓ Saturation               | on (A3)                          |                | True Aqua              | tic Plants               | (B14)              |                   | Dry-Sea                    | ason Water Table (C2)                   |
| Water M                    | larks (B1)                       |                | Hydrogen               | Sulfide O                | dor (C1)           |                   | Crayfish                   | n Burrows (C8)                          |
| Sedimer                    | nt Deposits (B2)                 |                | Oxidized F             |                          |                    | -                 | (C3) Saturati              | ion Visible on Aerial Imagery (C9)      |
| Drift De                   | posits (B3)                      |                | Presence               |                          |                    | •                 |                            | or Stressed Plants (D1)                 |
| -                          | at or Crust (B4)                 |                | Recent Iro             |                          |                    | d Soils (C        |                            | rphic Position (D2)                     |
| I — :                      | posits (B5)                      |                | Thin Muck              |                          | . ,                |                   | <u>✓</u> FAC-Ne            | eutral Test (D5)                        |
| ı —                        | on Visible on Aerial             |                |                        |                          |                    |                   |                            |   |
|                            | y Vegetated Concav               | e Surface (B   | B) Other (Exp          | olain in Re              | emarks)            |                   |                            |   |
| Field Obser                |                                  |                |                        | 1                        |                    |                   |                            |   |
| Surface Wat                |                                  |                | Depth (inc             |                          |                    | -                 |                            |   |
| Water Table                |                                  |                | Depth (inc             |                          |                    | -                 |                            |   |
| Saturation P (includes car |                                  | es N           | Depth (inc             | ches): <u>0</u>          |                    | Wetl              | and Hydrology P            | resent? Yes No                          |
|                            | corded Data (strean              | n gauge, mon   | itoring well, aerial p | ohotos, pr               | revious ins        | spections),       | if available:              |   |
|                            |                                  |                |                        |                          |                    |                   |                            |   |
| Remarks:                   |                                  |                |                        |                          |                    |                   |                            |   |
| Wetland                    | l hydrology                      | present.       |                        |                          |                    |                   |                            |   |
|                            | ,                                |                |                        |                          |                    |                   |                            |   |
|                            |                                  |                |                        |                          |                    |                   |                            |   |

| Project/Site: AEP Fostoria to Lima                              | C                | ity/Co  | unty: _ | Arcadia/     | Hancock  | Sampling Date: _                       | 2022-06-29     |
|---|------------------|---------|---------|--------------|--|--|----------------|
| Applicant/Owner: AEP  |                  |         |         |              | State: Ohio                                    | Sampling Point:                        | 1-B UPL        |
| Investigator(s): Beth Hollinden, Chris Davisson                 | s                | ection  | n, Tow  | nship, Ran   | ge: OH01 T2N R12E                              | SN18                                   |                |
| Landform (hillslope, terrace, etc.): Flat                       |                  |         | Lo      | cal relief ( | concave, convex, none):                        | None                                   |                |
| Slope (%): 0 Lat: 41.125174                                     | Lo               | ong: _  | -83.5   | 17573        |  | Datum: WGS 8                           | 4              |
| Soil Map Unit Name: PmA   |                  |         |         |              | NWI classifica                                 | ation: N/A                             |                |
| Are climatic / hydrologic conditions on the site typical for th | is time of year  | ? Ye    | s       |              |  |  |                |
| Are Vegetation, Soil, or Hydrology                              | significantly di | isturbe | ed?     | Are "N       | Normal Circumstances" p                        | resent? Yes                            | No             |
| Are Vegetation, Soil, or Hydrology                              | naturally prob   | lemat   | ic?     | (If nee      | eded, explain any answer                       | rs in Remarks.)                        |                |
| SUMMARY OF FINDINGS - Attach site map                           | showing s        | samp    | pling   | point lo     | cations, transects,                            | , important fe                         | atures, etc.   |
| Hydrophytic Vegetation Present? Yes N                           | No               |         |         |              | _  |  |                |
| Hydric Soil Present? Yes N                                      |                  |         |         | Sampled      |  | 🗸                                      |                |
| Wetland Hydrology Present? YesN                                 | No               |         | within  | a Wetlan     | d? Yes   | No                                     | -              |
| Remarks:  | _                |         | _       |              |  |  |                |
| Upland point for Wetland 1-B. Loca                              | ated on e        | edg     | e of    | agricu       | ıltural field.                                 |  |                |
| VEGETATION – Use scientific names of plants                     | 3.               |         |         |              |  |  |                |
|   |                  |         |         | ndicator     | Dominance Test works                           | sheet:                                 |                |
| Tree Stratum (Plot size: 30 ft r ) 1.                           | % Cover          |         |         |              | Number of Dominant Sp<br>That Are OBL, FACW, o |  | (A)            |
| 2   |                  |         |         |              | Total Number of Domina                         | ant                                    |                |
| 3   |                  |         |         |              | Species Across All Strat                       |  | (B)            |
| 4   |                  |         |         |              | Percent of Dominant Sp                         |  |                |
| 5   |                  | : Total | L Cove  |              | That Are OBL, FACW, o                          | or FAC: NaN                            | (A/B)          |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                     |                  | Total   | 10040   | .            | Prevalence Index work                          | rsheet:                                |                |
| 1   |                  |         |         |              | Total % Cover of:                              |  | y by:          |
| 2   |                  |         |         |              |  | x 1 = 0                                |                |
| 3   |                  |         |         |              |  | $x^2 = \frac{0}{0}$                    |                |
| 4   |                  |         | — -     |              |  | x 3 = 0                                |                |
| 5   |                  |         |         | ——           |  | x 4 = 20                               |                |
| Herb Stratum (Plot size: 5 ft r )                               | =                | Total   | I Cove  | r            |  | $\times 5 = \frac{0}{20}$              |                |
| 1. Glycine max  | 25               | ~       | •       |              | Column Totals: 5                               | (A) <u>ZU</u>                          | (B)            |
| Zea mays  | 25               | ~       |         |              | Prevalence Index                               | = B/A = <u>4.00</u>                    |                |
| 3. Phleum pratense  | _ 5              |         |         | FACU_        | Hydrophytic Vegetatio                          | n Indicators:                          |                |
| 4   |                  |         |         |              | 1 - Rapid Test for H                           |  | ation          |
| 5   |                  |         |         |              | 2 - Dominance Test                             |  |                |
| 6   |                  |         |         |              | 3 - Prevalence Inde                            |  |                |
| 7   |                  |         |         |              | 4 - Morphological A                            | daptations¹ (Provi<br>or on a separate | ide supporting |
| 8   |                  |         |         |              | Problematic Hydrop                             |  | -              |
| 9   |                  |         | — -     | ——           |  | ,                                      | (=             |
| 10  | ===:             | Total   |         |              | <sup>1</sup> Indicators of hydric soil         |  |                |
| Woody Vine Stratum (Plot size: 30 ft r )                        | 3376             | lota    | I Cove  | r            | be present, unless distu                       | rbed or problema                       | tic.           |
| 1   |                  |         |         |              | Hydrophytic                                    |  |                |
| 2   |                  |         |         |              | Vegetation<br>Present? Yes                     | s No                                   | <u>~</u>       |
| Remarks: (Include photo numbers here or on a separate           | =                | ıota    | Cove    | r            |  |  |                |
|   | ,                | ara     | اء میں  | dua ta       | o forming                                      |  |                |
| Hydrophytic vegetation absent. 45                               | o ⁄₀ pare (      | gro     | und     | aue (        | , iaiiiiiig.                                   |  |                |

SOIL Sampling Point: 1-B UPL

| Profile Desc            | cription: (Describe                | to the depth                          | needed to docur      | nent the               | indicator         | or confirm          | n the absence of           | findicators.)   |
|-------------------------|------------------------------------|---------------------------------------|----------------------|------------------------|-------------------|---------------------|----------------------------|---|
| Depth                   | Matrix                             |                                       |                      | x Feature              | s                 |                     |                            |   |
| (inches)                | Color (moist)                      |                                       | Color (moist)        | %                      | Type <sup>1</sup> | _Loc <sup>2</sup> _ |                            | Remarks   |
| 0 - 20                  | 10YR 3/3                           | _ <u>100</u> _                        |                      |                        |                   |                     | Clay Loam _                |   |
|                         |                                    |                                       |                      |                        |                   |                     |                            |   |
|                         |                                    |                                       |                      |                        |                   |                     |                            |   |
| -                       |                                    |                                       |                      |                        |                   |                     |                            |   |
|                         |                                    |                                       |                      |                        |                   |                     |                            |   |
|                         |                                    |                                       |                      |                        |                   |                     |                            |   |
|                         |                                    |                                       |                      |                        |                   |                     |                            |   |
| 1 <sub>Turner</sub> C=C | tration D-Day                      |                                       | laduand Matrix Mil   | - Maaka                |                   |                     | 21 acation: 1              | DI - Dese Lining M-Metric   |
| Hydric Soil             | oncentration, D=Dep<br>Indicators: | Delion, Rivi-R                        | educed Matrix, Mi    | 5-Masket               | a Sand Gra        | 11115.              |                            | PL=Pore Lining, M=Matrix.  or Problematic Hydric Soils <sup>3</sup> : |
| Histosol                | (A1)                               |                                       | Sandy 0              | Sleyed Ma              | atrix (S4)        |                     | Coast Pr                   | airie Redox (A16)   |
| ı —                     | oipedon (A2)                       |                                       |                      | Redox (S5              |                   |                     | Dark Sur                   |   |
| ı —                     | istic (A3)                         |                                       |                      | Matrix (S              | ,                 |                     | _                          | ganese Masses (F12)   |
|                         | en Sulfide (A4)<br>d Layers (A5)   |                                       |                      | Mucky Mii<br>Gleyed Mi | neral (F1)        |                     |                            | allow Dark Surface (TF12)<br>xplain in Remarks)                       |
| —                       | ick (A10)                          |                                       | _ ′                  | d Matrix (             | , ,               |                     | Officer (E.                | xpiairi iii Keriiaiks)  |
| ı —                     | d Below Dark Surfac                | e (A11)                               |                      | Dark Surfa             |                   |                     |                            |   |
| Thick Da                | ark Surface (A12)                  |                                       | Deplete              | d Dark Su              | urface (F7)       |                     | <sup>3</sup> Indicators of | f hydrophytic vegetation and  |
| ı —                     | Mucky Mineral (S1)                 |                                       | Redox [              | Depressio              | ns (F8)           |                     |                            | nydrology must be present,  |
|                         | ucky Peat or Peat (S               |                                       |                      |                        |                   |                     | unless di                  | sturbed or problematic.   |
| l _                     | Layer (if observed)                | •                                     |                      |                        |                   |                     |                            |   |
| Type:                   | ches):                             |                                       | _                    |                        |                   |                     | Hydric Soil Pi             | resent? Yes No  |
| Remarks:                |                                    |                                       |                      |                        |                   |                     |                            |   |
| Hydric                  | soil absent.                       |                                       |                      |                        |                   |                     |                            |   |
| HYDROLO                 | GY                                 |                                       |                      |                        |                   |                     |                            |   |
| Wetland Hy              | drology Indicators                 | :                                     |                      |                        |                   |                     |                            |   |
| Primary India           | cators (minimum of                 | one is required                       | d; check all that ap | ply)                   |                   |                     | <u>Secondary</u>           | Indicators (minimum of two required)                                  |
| Surface                 | Water (A1)                         |                                       | Water-Sta            | ined Leav              | res (B9)          |                     | Surfac                     | e Soil Cracks (B6)  |
| ı —                     | ater Table (A2)                    |                                       | Aquatic Fa           | ,                      | ,                 |                     | Draina                     | ige Patterns (B10)  |
| Saturation              |                                    |                                       | True Aqua            |                        |                   |                     |                            | eason Water Table (C2)  |
| ı —                     | larks (B1)                         |                                       | Hydrogen             |                        | , ,               | Б                   |                            | sh Burrows (C8)   |
|                         | nt Deposits (B2)                   |                                       | Oxidized F Presence  |                        |                   |                     |                            | ation Visible on Aerial Imagery (C9)                                  |
| —                       | oosits (B3)<br>at or Crust (B4)    |                                       | Recent Iro           |                        | ,                 | ,                   |                            | ed or Stressed Plants (D1) orphic Position (D2)                       |
|                         | posits (B5)                        |                                       | Thin Muck            |                        |                   | 20013 (00           | . —                        | leutral Test (D5)   |
|                         | on Visible on Aerial               | Imagery (B7)                          |                      |                        |                   |                     |                            | real rest (De)  |
| —                       | y Vegetated Concav                 |                                       |                      |                        | -                 |                     |                            |   |
| Field Obser             | vations:                           | · · · · · · · · · · · · · · · · · · · |                      |                        |                   |                     |                            |   |
| Surface Wat             | er Present?                        | 'es No                                | Depth (in            | ches):                 |                   | _                   |                            |   |
| Water Table             | Present?                           | ′es No                                | Depth (in            | ches):                 |                   | _                   |                            |   |
| Saturation P            |                                    | /es No                                | Depth (in            | ches):                 |                   | _ Wetla             | and Hydrology F            | Present? Yes No   |
|                         | corded Data (strean                | n gauge, moni                         | toring well, aerial  | photos, pr             | revious ins       | pections),          | if available:              |   |
| Remarks:                |                                    |                                       |                      |                        |                   |                     |                            |   |
|                         | l budreles:                        | oboc:=+                               |                      |                        |                   |                     |                            |   |
| wetiand                 | l hydrology                        | apsent.                               |                      |                        |                   |                     |                            |   |
|                         |                                    |                                       |                      |                        |                   |                     |                            |   |

| Project/Site: AEP Fostoria to Lima                                     | Ci           | City/County: Arcadia/Hancock Sampling Date: 2022-0 |               |   |                    |                          |  |  |
|--|--------------|--|---------------|---|--------------------|--------------------------|--|--|
| Applicant/Owner: AEP   |              | State: Ohio Sampling Point: 1-C                    |               |   |                    |                          |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                        | Se           | Section, Township, Range: OH01 T2N R11E SN24       |               |   |                    |                          |  |  |
| Landform (hillslope, terrace, etc.): Depression Toeslope               |              | L  | ocal relief ( | : Concave   |                    |                          |  |  |
| Slope (%): 2 Lat: 41.117853  | Lo           | ong:83.  | 540313        |   | Datum: WGS         | 84                       |  |  |
| Soil Map Unit Name: PmA  |              |  |               | NWI classifi  | cation: R4SBC      |                          |  |  |
| Are climatic / hydrologic conditions on the site typical for this time | e of year    | ? Yes  | No            | (If no, explain in I  | Remarks.)          |                          |  |  |
| Are Vegetation, Soil, or Hydrology signif                              | ficantly dis | sturbed?   | Are "I        | Normal Circumstances"   | present? Yes _     | No                       |  |  |
| Are Vegetation, Soil, or Hydrology natura                              | ally probl   | ematic?  | (If nee       | eded, explain any answ  | ers in Remarks.)   |                          |  |  |
| SUMMARY OF FINDINGS - Attach site map sho                              | owing s      | ampling  | point lo      | ocations, transects   | s, important f     | features, etc.           |  |  |
| Hydrophytic Vegetation Present? Yes No                                 |              |  |               | _   |                    |                          |  |  |
| Hydric Soil Present? Yes No  |              |  | Sampled       |   | No                 |                          |  |  |
| Wetland Hydrology Present? Yes No<br>Remarks:                          |              | withii   | n a Wetlan    | dr fes  | NO                 |                          |  |  |
|  |              |  |               |   |                    |                          |  |  |
| PEM. ORAM Score of 21.   |              |  |               |   |                    |                          |  |  |
| VEGETATION – Use scientific names of plants.                           |              |  |               |   |                    |                          |  |  |
| Ab.  |              | Dominant   |               | Dominance Test wor  | ksheet:            |                          |  |  |
| Tree Stratum (Plot size: 30 ft r ) %                                   |              | Species?   |               | Number of Dominant S<br>That Are OBL, FACW,                       |                    | (A)                      |  |  |
| 2  |              |  |               | Total Number of Domi  |                    |                          |  |  |
| 3  |              |  | - 1           | Species Across All Str  | ata: <u>1</u>      | (B)                      |  |  |
| 4  |              |  |               | Percent of Dominant S<br>That Are OBL, FACW,                      |                    | (A/B)                    |  |  |
|  |              | Total Cove   | er .          |   |                    | (////                    |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                            |              |  |               | Prevalence Index wo   |                    | inly by:                 |  |  |
| 1  |              |  |               | Total % Cover of: OBL species                                     | x 1 = 0            | iply by:                 |  |  |
| 2  |              |  |               |   | x 2 = 18           | I                        |  |  |
| 4  |              |  |               |   | x 3 = 0            |                          |  |  |
| 5  |              |  |               |   | x 4 = 40           |                          |  |  |
| Herb Stratum (Plot size: 5 ft r )                                      | =            | Total Cove   | er            |   | x 5 = 0            |                          |  |  |
| 1. Phalaris arundinacea 90   | 0            | ~  | FACW          | Column Totals: 100  | (A) <u>22</u>      | 20 (B)                   |  |  |
| 2. Cirsium arvense   | 0            |  | FACU          | Prevalence Index  | x = B/A = 2.20     |                          |  |  |
| 3  |              |  |               | Hydrophytic Vegetati  | ion Indicators:    |                          |  |  |
| 4  |              |  |               | 1 - Rapid Test for  |                    | etation                  |  |  |
| 5  |              |  |               | <ul><li>✓ 2 - Dominance Te</li><li>✓ 3 - Prevalence Inc</li></ul> |                    |                          |  |  |
| 6  |              |  |               | 4 - Morphological   |                    | ovide supporting         |  |  |
| 7  |              |  |               | data in Remark  | ks or on a separa  | ite sheet)               |  |  |
| 9.   |              |  |               | Problematic Hydro   | ophytic Vegetatio  | n <sup>1</sup> (Explain) |  |  |
| 10   |              |  |               | North at an at books as   | all and wallend by | udual a average          |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                               | 00%=         | Total Cove   | er            | <sup>1</sup> Indicators of hydric so<br>be present, unless dist   |                    |                          |  |  |
| 1. Convolvulus arvensis  | )            | ~  |               | Hudronbudio   |                    |                          |  |  |
| 2.   |              |  |               | Hydrophytic<br>Vegetation   |                    |                          |  |  |
|  | 0% =         | Total Cove   | er            | Present? Yo   | es No              |                          |  |  |
| Remarks: (Include photo numbers here or on a separate shee             | et.)         |  |               |   |                    |                          |  |  |
| Hydrophytic vegetation present.  |              |  |               |   |                    |                          |  |  |
|  |              |  |               |   |                    |                          |  |  |

SOIL Sampling Point: 1-C

| Profile Desc        | ription: (Describe                         | to the dep    | th needed to docu      | ment the               | indicator           | or confire        | n the absence of inc | dicators.)                                      |
|---------------------|--|---------------|------------------------|------------------------|---------------------|-------------------|----------------------|---|
| Depth               | Matrix                                     |               | Redo                   | x Featur               | es                  |                   |                      |   |
| (inches)            | Color (moist)                              | %             | Color (moist)          | %_                     | Type <sup>1</sup> _ | _Loc <sup>2</sup> |                      | Remarks   |
| 0 - 20              | 10YR 5/2                                   | _ <u>70</u>   | 10YR 5/6               | 25                     | _ <u>C</u>          | <u>M</u>          | Silty Clay           |   |
| 0-20                | 10YR 5/2                                   | 70            | 10YR 3/1               | 5                      | <u>D</u>            | <u>M</u>          |                      |   |
| -                   |  |               |                        |                        |                     |                   |                      |   |
| _                   |  |               |                        |                        |                     |                   |                      |   |
|                     |  |               |                        |                        |                     |                   |                      |   |
|                     |  |               |                        |                        |                     |                   |                      |   |
|                     |  |               |                        |                        |                     |                   |                      |   |
| -                   |  |               |                        |                        |                     |                   |                      |   |
|                     |  | pletion, RM=  | Reduced Matrix, M      | S=Maske                | ed Sand Gr          | ains.             |                      | Pore Lining, M=Matrix.                          |
| Hydric Soil         |  |               |                        |                        |                     |                   |                      | roblematic Hydric Soils <sup>3</sup> :          |
| Histosol            | . ,  |               |                        | -                      | latrix (S4)         |                   | _                    | e Redox (A16)                                   |
| ı —                 | oipedon (A2)<br>stic (A3)                  |               |                        | Redox (S<br>d Matrix ( | ,                   |                   | Dark Surface         | e (S7)<br>nese Masses (F12)                     |
| ı —                 | n Sulfide (A4)                             |               |                        |                        | ineral (F1)         |                   |                      | v Dark Surface (TF12)                           |
|                     | d Layers (A5)                              |               |                        |                        | Matrix (F2)         |                   |                      | ain in Remarks)                                 |
| 2 cm Mu             | ıck (A10)                                  |               |                        | ed Matrix              |                     |                   |                      |   |
| ı — ·               | d Below Dark Surfa                         | ce (A11)      | _                      |                        | face (F6)           |                   | •                    |   |
| I —                 | ark Surface (A12)                          |               |                        |                        | Surface (F7         | )                 |                      | drophytic vegetation and                        |
|                     | lucky Mineral (S1)<br>icky Peat or Peat (S | 221           | Redox                  | Depressi               | ons (F8)            |                   | •                    | rology must be present,<br>rbed or problematic. |
|                     | Layer (if observed)                        |               |                        |                        |                     |                   | unless distu         | rbed or problematic.                            |
|                     | zayor (ii ozoorvou                         |               |                        |                        |                     |                   |                      |   |
|                     | ches):                                     |               |                        |                        |                     |                   | Hydric Soil Pres     | ent? Yes No                                     |
| Remarks:            |  |               |                        |                        |                     |                   |                      |   |
| Hydric              | soil present                               |               |                        |                        |                     |                   |                      |   |
| HYDROLO             | GY   |               |                        |                        |                     |                   |                      |   |
| Wetland Hy          | drology Indicators                         | :             |                        |                        |                     |                   |                      |   |
| Primary India       | cators (minimum of                         | one is requir | red; check all that a  | oply)                  |                     |                   | Secondary Inc        | dicators (minimum of two required)              |
| ✓ Surface           | Water (A1)                                 |               | Water-Sta              | ined Lea               | ves (B9)            |                   | Surface S            | Soil Cracks (B6)                                |
|                     | iter Table (A2)                            |               | Aquatic Fa             | auna (B1               | 3)                  |                   | Drainage             | Patterns (B10)                                  |
| <u>✓</u> Saturation | on (A3)                                    |               | True Aqua              | atic Plant             | s (B14)             |                   | Dry-Seas             | on Water Table (C2)                             |
|                     | arks (B1)                                  |               | Hydrogen               |                        |                     |                   |                      | Burrows (C8)                                    |
|                     | nt Deposits (B2)                           |               |                        |                        | eres on Liv         | -                 |                      | n Visible on Aerial Imagery (C9)                |
| l — ·               | posits (B3)                                |               | Presence               |                        |                     | ,                 |                      | r Stressed Plants (D1)                          |
| -                   | at or Crust (B4)                           |               | Recent Iro             |                        |                     | d Soils (C        | . —                  | hic Position (D2)                               |
| I —                 | oosits (B5)<br>on Visible on Aerial        | Imagani (Pi   | Thin Muck              |                        |                     |                   | <u>✓</u> FAC-Neu     | trai Test (D5)                                  |
| ı —                 | Vegetated Conca                            |               | . — -                  |                        |                     |                   |                      |   |
| Field Obser         |  | odriace (L    | Other (Ex              | piaiii iii i           | emarks)             |                   |                      |   |
| Surface Wat         |  | Yes 🗸 I       | No Depth (in           | ches): 1               |                     |                   |                      |   |
| Water Table         |  |               | No Depth (in           |                        |                     | _                 |                      |   |
| Saturation P        |  | _             | No Depth (in           |                        |                     | —  <br>Wet        | land Hydrology Pres  | sent? Yes No                                    |
| (includes car       | oillary fringe)                            |               |                        |                        |                     |                   |                      |   |
| Describe Re         | corded Data (strear                        | n gauge, mo   | onitoring well, aerial | photos, p              | revious ins         | spections),       | , if available:      |   |
| Remarks:            |  |               |                        |                        |                     |                   |                      |   |
| Wetland             | l hydrology                                | present       | t.                     |                        |                     |                   |                      |   |
|                     | ,  | •             |                        |                        |                     |                   |                      |   |
|                     |  |               |                        |                        |                     |                   |                      |   |

| Project/Site: AEP Fostoria to Lima                               | (                | City/Co | ounty: | <u>Arcadia</u> | /Hancock Sampling Date: 20:  | <u>22-06-29</u> |  |  |
|--|------------------|---------|--------|----------------|--|-----------------|--|--|
| Applicant/Owner: AEP   |                  |         |        |                | State: Ohio Sampling Point: 1-C UPL  |                 |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                  | ;                | Section | n, Tov | vnship, Rar    | nge: OH01 T2N R11E SN24  |                 |  |  |
| ,                          |                  |         |        | ,              | (concave, convex, none): None  |                 |  |  |
| Slope (%): 0 Lat: 41.117862                                      | I                | Long: _ | -83.   | 540266         | Datum: WGS 84  |                 |  |  |
| Soil Map Unit Name: PmA  |                  |         |        |                | NWI classification: R4SBC  |                 |  |  |
| Are climatic / hydrologic conditions on the site typical for the | nis time of yea  | ar? Ye  | es     | No _           | (If no, explain in Remarks.)   |                 |  |  |
| Are Vegetation, Soil, or Hydrology                               | significantly of | disturb | ed?    | Are "          | Normal Circumstances" present? Yes   | No              |  |  |
| Are Vegetation, Soil, or Hydrology                               | naturally prol   | blemat  | tic?   | (If ne         | eded, explain any answers in Remarks.)                                       |                 |  |  |
| SUMMARY OF FINDINGS - Attach site map                            | showing          | sam     | pling  | point k        | ocations, transects, important featu   | ures, etc.      |  |  |
| Hydrophytic Vegetation Present? Yes I                            | No               |         |        |                |  |                 |  |  |
| Hydric Soil Present? Yes I                                       |                  |         |        | Sampled        |  |                 |  |  |
| Wetland Hydrology Present? Yes I                                 | No               |         | withi  | n a Wetlan     | id? Yes No   |                 |  |  |
| Remarks:   |                  |         |        |                |  |                 |  |  |
| Upland Point for Wetland 1-C.                                    |                  |         |        |                |  |                 |  |  |
| VEGETATION – Use scientific names of plants                      | 2                |         |        |                |  |                 |  |  |
|  | Absolute         | Domi    | inant  | Indicator      | Dominance Test worksheet:  |                 |  |  |
| Tree Stratum (Plot size: 30 ft r )                               | % Cover          | Spec    | ies?   | Status         | Number of Dominant Species   |                 |  |  |
| 1  |                  |         |        |                | That Are OBL, FACW, or FAC: 1  | (A)             |  |  |
| 2  |                  |         |        |                | Total Number of Dominant   |                 |  |  |
| 3  |                  |         |        |                | Species Across All Strata: 4   | (B)             |  |  |
| 4<br>5   |                  |         |        |                | Percent of Dominant Species That Are OBL, FACW, or FAC: 25                   | (A/D)           |  |  |
|  |                  | = Tota  | I Cove | er             |  | (A/B)           |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                      |                  |         |        |                | Prevalence Index worksheet:  |                 |  |  |
| 1  |                  |         |        |                |  | <u>r:</u>       |  |  |
| 2  |                  |         |        |                | OBL species $0 \times 1 = 0$<br>FACW species $10 \times 2 = 20$              |                 |  |  |
| 3  |                  |         |        |                | FAC species 0 x 3 = 0  |                 |  |  |
| 5  |                  |         |        |                | FACU species 90 x 4 = 360  |                 |  |  |
|  |                  | = Tota  | l Cove | er             | UPL species 0 x 5 = 0  |                 |  |  |
| Herb Stratum (Plot size: 5 ft r )                                | 40               | V       | ,      | FACU           | Column Totals: 100 (A) 380   | (B)             |  |  |
| 1. Bromus inermis 2. Cirsium arvense                             | $-\frac{40}{30}$ |         |        | FACU           | Prevalence Index = B/A = 3.80  |                 |  |  |
| 3. Phytolacca americana  | $-\frac{30}{20}$ |         |        | FACU           | Hydrophytic Vegetation Indicators:   |                 |  |  |
| 4  |                  |         |        |                | 1 - Rapid Test for Hydrophytic Vegetation                                    | n               |  |  |
| 5  |                  |         |        |                | 2 - Dominance Test is >50%   |                 |  |  |
| 6.   |                  |         |        |                | 3 - Prevalence Index is ≤3.0 <sup>1</sup>                                    |                 |  |  |
| 7.   |                  |         |        |                | 4 - Morphological Adaptations <sup>1</sup> (Provide                          | supporting      |  |  |
| 8  |                  |         |        |                | data in Remarks or on a separate she Problematic Hydrophytic Vegetation¹ (Ex |                 |  |  |
| 9  |                  |         |        |                | Problematic Hydrophytic Vegetation (Ex                                       | (piairi)        |  |  |
| 10   |                  |         |        |                | <sup>1</sup> Indicators of hydric soil and wetland hydrolog                  | av must         |  |  |
| Woody Vine Stratum (Plot size: 30 ft r                           | 90%              | = Tota  | I Cove | er             | be present, unless disturbed or problematic.                                 | 3,              |  |  |
| 1. Vitis riparia   | 10               | V       | /      | FACW           | Hydrophytic  |                 |  |  |
| 2  |                  |         |        |                | Vegetation   |                 |  |  |
|  | 10%              | = Tota  | l Cove | er             | Present? Yes No  |                 |  |  |
| Remarks: (Include photo numbers here or on a separate            | sheet.)          |         |        |                |  |                 |  |  |
| Hydrophytic vegetation present.                                  |                  |         |        |                |  |                 |  |  |
|  |                  |         |        |                |  |                 |  |  |

SOIL Sampling Point: 1-C UPL

| Frome Desc  | cription: (Describe  | to the depth   | needed to docur   | ment the   | indicator  | or confirm        | n the absence of ir                                       | idicators.)   |
|---|--|--|---|--|--|-------------------|---|---|
| Depth   | Matrix   |  |   | x Feature  | s  |                   |   |   |
| (inches)  | Color (moist)  | %  | Color (moist)   | %  | _Type <sup>1</sup>   | Loc <sup>2</sup>  | Texture   | Remarks   |
| 0 - 20  | 10YR 3/2   | 95   | 10YR 5/6  | 5  | <u> </u>   | <u>M</u>          |   |   |
| -   |  |  |   |  |  |                   |   |   |
|   |  |  |   |  |  |                   |   |   |
|   |  |  |   |  |  |                   |   |   |
| <u> </u>  |  |  |   |  | - ——   |                   |   |   |
|   |  |  |   |  |  |                   |   |   |
|   |  |  |   |  |  |                   |   |   |
|   |  |  |   |  |  |                   |   |   |
| ¹Type: C=C  | oncentration, D=De   | nletion RM=R   | Reduced Matrix M  | S=Masker   | d Sand Gr  | aine              | 2l ocation: Pl  | =Pore Lining, M=Matrix.   |
| Hydric Soil   |  | pietion, Nivi-r                                      | reduced Matrix, Mi  | 0-IVIASKE  | u Sanu Gi  | airis.            |   | Problematic Hydric Soils <sup>3</sup> :   |
| Histosol  |  |  | Sandy (   | Gleyed Ma  | atrix (S4)   |                   |   | ie Redox (A16)  |
| ı —   | pipedon (A2)   |  |   | Redox (St  |  |                   | Dark Surfac   |   |
| ı —   | istic (A3)   |  |   | d Matrix (   |  |                   | _   | inese Masses (F12)  |
| Hydroge   | en Sulfide (A4)  |  | Loamy   | Mucky Mi   | neral (F1)   |                   | Very Shallo   | w Dark Surface (TF12)   |
| Stratified  | d Layers (A5)  |  | Loamy   | Gleyed M   | atrix (F2)   |                   | Other (Expl   | ain in Remarks)   |
| ı —   | uck (A10)  |  |   | d Matrix (   |  |                   |   |   |
| ı —   | d Below Dark Surfa   | ce (A11)   |   | Dark Surfa   | ` '  |                   | 3   |   |
| _   | ark Surface (A12)  |  |   |  | urface (F7   | )                 |   | ydrophytic vegetation and   |
|   | Mucky Mineral (S1)<br>ucky Peat or Peat (S   | :3)  | Redox I   | Depressio  | ons (F8)   |                   |   | Irology must be present,<br>irbed or problematic.   |
|   | Layer (if observed)  |  |   |  |  |                   | uniess disti  | arbed or problematic.   |
| l _   | Layer (ii observed)  |  |   |  |  |                   |   |   |
| 1   | ches):   |  |   |  |  |                   | Hydric Soil Pres  | sent? Yes No  |
|   | Cites)   |  |   |  |  |                   |   |   |
| Remarks:  |  |  |   |  |  |                   |   |   |
| Hydric  | soil present   | •  |   |  |  |                   |   |   |
| 1   | •  |  |   |  |  |                   |   |   |
|   |  |  |   |  |  |                   |   |   |
| LIV/DD01.0  | -04  |  |   |  |  |                   |   |   |
| HYDROLO   |  |  |   |  |  |                   |   |   |
| 1   | drology Indicators   |  |   |  |  |                   |   |   |
| Primary India   | cators (minimum of   | one is require                                       | d; check all that ap  | oply)  |  |                   | Secondary In  | dicators (minimum of two required)  |
| Surface   | Water (A1)   |  | Water-Sta   | ined Leav  | res (B9)   |                   | Surface   | Soil Cracks (B6)  |
| High Wa   | ater Table (A2)  |  | Aquatic Fa  | auna (B13  | 3)   |                   | Drainage  | Patterns (B10)  |
| Saturation  | on (A3)  |  | True Aqua   | tic Plants   | (B14)  |                   | Dry-Seas  | son Water Table (C2)  |
| Water M   | larks (B1)   |  | Hydrogen  |  |  |                   |   | Soft Water Table (GZ)   |
| Sedimer   | at Danasita (P2)   |  |   | Sulfide O  | dor (C1)   |                   |   | Burrows (C8)  |
| — ocanno  | nt Deposits (B2)   |  | Oxidized F  | Rhizosphe  | eres on Liv  | ing Roots         | Crayfish  | (,  |
|   | posits (B3)  |  |   | Rhizosphe  | eres on Liv  | -                 | Crayfish (C3) Saturation                                  | Burrows (C8)  |
| Drift Dep   | posits (B3)<br>at or Crust (B4)  |  | Oxidized F  | Rhizosphe<br>of Reduce   | eres on Lived Iron (C  | 4)                | Crayfish Crayfish Saturation Stunted Geomory              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Drift Dep<br>Algal Ma<br>Iron Dep   | posits (B3)<br>at or Crust (B4)<br>posits (B5)   |  | Oxidized F Presence Recent Iro Thin Muck  | Rhizosphe<br>of Reduce<br>on Reduct  | eres on Lived Iron (Colonia)   | 4)                | Crayfish Crayfish Saturation Stunted Geomory              | Burrows (C8)<br>on Visible on Aerial Imagery (C9)<br>or Stressed Plants (D1)                              |
| Drift Dep<br>Algal Ma<br>Iron Dep<br>Inundati   | posits (B3)<br>at or Crust (B4)<br>posits (B5)<br>on Visible on Aerial   |  | Oxidized F Presence Recent Iro Thin Muck  | Rhizosphe<br>of Reduce<br>on Reduct<br>(Surface<br>Well Data                       | eres on Lived Iron (Colon in Tille<br>(C7)                             | 4)                | Crayfish Crayfish Saturation Stunted Geomory              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Drift Dep<br>Algal Ma<br>Iron Dep<br>Inundati   | posits (B3)<br>at or Crust (B4)<br>posits (B5)   |  | Oxidized F Presence Recent Iro Thin Muck  | Rhizosphe<br>of Reduce<br>on Reduct<br>(Surface<br>Well Data                       | eres on Lived Iron (Colon in Tille<br>(C7)                             | 4)                | Crayfish Crayfish Saturation Stunted Geomory              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Drift Dep<br>Algal Ma<br>Iron Dep<br>Inundati   | posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations:  | ve Surface (B8                                       | Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp                      | Rhizosphe<br>of Reduct<br>on Reduct<br>a Surface<br>Well Data<br>plain in Re       | eres on Lived Iron (Colion in Tille<br>(C7)<br>(C9)<br>(D9)<br>emarks) | 4)<br>d Soils (C6 | Crayfish Crayfish Saturation Stunted Geomory              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Drift Dep Algal Ma Iron Dep Inundati Sparsely   | posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present?  | ve Surface (B8                                       | Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp                      | Rhizosphe of Reduce on Reduct c Surface Well Data plain in Re                      | eres on Lived Iron (Crion in Tille<br>(C7)<br>(D9)<br>emarks)          | 4)<br>d Soils (C6 | Crayfish Crayfish Saturation Stunted Geomory              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser   | posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present?  | ve Surface (B8                                       | Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp                      | Rhizosphe of Reduce on Reduct c Surface Well Data plain in Re                      | eres on Lived Iron (Crion in Tille<br>(C7)<br>(D9)<br>emarks)          | 4)<br>d Soils (C6 | Crayfish Crayfish Saturation Stunted Geomory              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wat   | posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present?  | ye Surface (B8 Yes No                                | Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp                      | Rhizosphe of Reduct on Reduct c Surface Well Data plain in Re ches): ches):        | eres on Lived Iron (Color in Tille (C7)  (C9)  (D9)  emarks)           | 4) d Soils (C6    | Crayfish Crayfish (C3) Saturation Stunted Geomory FAC-Net | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap              | posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent?                                     | Yes No Yes No Yes No                                 | Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp  Depth (in Depth (in | Rhizosphe of Reduce on Reduct c Surface Well Data plain in Re ches): ches): ches): | eres on Lived Iron (Crion in Tille (C7)  (C9)  (D9)  emarks)           | 4) d Soils (C6    | Crayfish Crayfish Saturation Stunted FAC-New              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |
| Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap              | posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present?   | Yes No Yes No Yes No                                 | Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp  Depth (in Depth (in | Rhizosphe of Reduce on Reduct c Surface Well Data plain in Re ches): ches): ches): | eres on Lived Iron (Crion in Tille (C7)  (C9)  (D9)  emarks)           | 4) d Soils (C6    | Crayfish Crayfish Saturation Stunted FAC-New              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |
| Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re  | posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent?                                     | Yes No Yes No Yes No                                 | Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp  Depth (in Depth (in | Rhizosphe of Reduce on Reduct c Surface Well Data plain in Re ches): ches): ches): | eres on Lived Iron (Crion in Tille (C7)  (C9)  (D9)  emarks)           | 4) d Soils (C6    | Crayfish Crayfish Saturation Stunted FAC-New              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |
| Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap              | posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent?                                     | Yes No Yes No Yes No                                 | Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp  Depth (in Depth (in | Rhizosphe of Reduce on Reduct c Surface Well Data plain in Re ches): ches): ches): | eres on Lived Iron (Crion in Tille (C7)  (C9)  (D9)  emarks)           | 4) d Soils (C6    | Crayfish Crayfish Saturation Stunted FAC-New              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |
| Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wate Water Table Saturation P (includes cap Describe Re | posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent? pillary fringe) corded Data (strear | Yes No<br>Yes No<br>Yes No<br>Yes No<br>n gauge, mon | Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp  Depth (in Depth (in | Rhizosphe of Reduce on Reduct c Surface Well Data plain in Re ches): ches): ches): | eres on Lived Iron (Crion in Tille (C7)  (C9)  (D9)  emarks)           | 4) d Soils (C6    | Crayfish Crayfish Saturation Stunted FAC-New              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |
| Drift Dep Algal Ma Iron Dep Inundati Sparsely Field Obser Surface Wate Water Table Saturation P (includes cap Describe Re | posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent?                                     | Yes No<br>Yes No<br>Yes No<br>Yes No<br>n gauge, mon | Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp  Depth (in Depth (in | Rhizosphe of Reduce on Reduct c Surface Well Data plain in Re ches): ches): ches): | eres on Lived Iron (Crion in Tille (C7)  (C9)  (D9)  emarks)           | 4) d Soils (C6    | Crayfish Crayfish Saturation Stunted FAC-New              | Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |

| Project/Site: AEP Fostoria to Lima  |              | City/County:                                 | Arcadia    | /Hancock                                    | Sampling Date: 2022-06-29  |  |  |  |  |
|---|--------------|--|------------|---|--|--|--|--|--|
| Applicant/Owner: AEP  |              | State: Ohio Sampling Point: 1-D              |            |   |  |  |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                           |              | Section, Township, Range: OH01 T2N R11E SN23 |            |   |  |  |  |  |  |
| Landform (hillslope, terrace, etc.): Depression Toeslope                  |              |  |            | (concave, convex, none):                    |  |  |  |  |  |
| Slope (%): 2 Lat: 41.112758   | լ            | _ong:83.                                     | 556261     |   | Datum: WGS 84  |  |  |  |  |
| Soil Map Unit Name: SoA   |              |  |            | NWI classific                               | cation: R2UBH  |  |  |  |  |
| Are climatic / hydrologic conditions on the site typical for this         | time of year | r? Yes                                       |            |   |  |  |  |  |  |
| Are Vegetation, Soil, or Hydrology si                                     |              |  |            |   |  |  |  |  |  |
| Are Vegetation, Soil, or Hydrology na                                     |              |  |            | eeded, explain any answe                    |  |  |  |  |  |
| SUMMARY OF FINDINGS – Attach site map s                                   |              |  | g point le | ocations, transects                         | , important features, etc  |  |  |  |  |
| Hydrophytic Vegetation Present? Yes No                                    | ·            |  |            |   |  |  |  |  |  |
|   |              |  | e Sampled  |   | ,  |  |  |  |  |
| Wetland Hydrology Present? Yes No   | <u> </u>     | with   | n a Wetlar | nd? Yes                                     | No   |  |  |  |  |
| Remarks:  |              |  |            |   | CONTRACTOR OF THE CONTRACTOR O |  |  |  |  |
| PSS. Vegetation, soil, and hydrology were distual berm. ORAM score of 32. | irbed via    | removal                                      | of vegeta  | ation and addition of                       | fill and culverts to create  |  |  |  |  |
| VEGETATION – Use scientific names of plants.                              |              |  |            |   |  |  |  |  |  |
|   | Absolute     | Dominant                                     | Indicator  | Dominance Test work                         | sheet:   |  |  |  |  |
| Tree Stratum (Plot size:30 ft r) 1  | % Cover      | _  | _Status_   | Number of Dominant S<br>That Are OBL, FACW, | . ^  |  |  |  |  |
| 2.  |              |  |            | Total Number of Domin                       | nant   |  |  |  |  |
| 3   |              |  |            | Species Across All Stra                     | •  |  |  |  |  |
| 4   |              |  |            | Percent of Dominant S                       | necies   |  |  |  |  |
| 5   |              |  |            | That Are OBL, FACW,                         |  |  |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r                                 |              | = Total Cov                                  | er         | Prevalence Index wor                        | ksheet:  |  |  |  |  |
| 1 Salix nigra   | 35           | ~  | OBL        | Total % Cover of:                           |  |  |  |  |  |
| 2.  |              |  |            | OBL species 45                              | x 1 = 45   |  |  |  |  |
| 3   |              |  |            | FACW species 60                             | x 2 = 120  |  |  |  |  |
| 4.  |              |  |            | FAC species 30                              | x 3 = <u>90</u>  |  |  |  |  |
| 5   |              |  |            |   | x 4 = <u>0</u>   |  |  |  |  |
| F 44  | 35%          | = Total Cov                                  | er         |   | x 5 = 0  |  |  |  |  |
| Herb Stratum (Plot size: 5 ft r )  1 Phalaris arundinacea                 | 60           | ~  | FACW       | Column Totals: 135                          | (A) <u>255</u> (B)   |  |  |  |  |
| 2. Acer negundo   | 20           | <u> </u>                                     | FAC        | Prevalence Index                            | <sub>z</sub> = R/Δ = 1.89  |  |  |  |  |
| 3. Salix nigra  | 10           |  | OBL        | Hydrophytic Vegetation                      |  |  |  |  |  |
| 4. Toxicodendron radicans   | 10           |  | FAC        | ' ' '                                       | Hydrophytic Vegetation   |  |  |  |  |
| 5.  |              |  |            | 2 - Dominance Tes                           |  |  |  |  |  |
| 6   |              |  |            | ✓ 3 - Prevalence Inde                       | ex is ≤3.0 <sup>1</sup>  |  |  |  |  |
| 7.  |              |  |            |   | Adaptations <sup>1</sup> (Provide supporting   |  |  |  |  |
| 8.  |              |  |            |   | s or on a separate sheet)  |  |  |  |  |
| 9   |              |  |            | Problematic Hydro                           | phytic Vegetation <sup>1</sup> (Explain)   |  |  |  |  |
| 10  |              |  |            | Iteration to un of boundain and             | The and continued by dealers on mount  |  |  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r                                    | 100%_        | = Total Cov                                  | er         | be present, unless disti                    | il and wetland hydrology must<br>urbed or problematic.   |  |  |  |  |
| 1. Convolvulus arvensis   | 10           |  |            | Hydrophytic                                 |  |  |  |  |  |
| 2   |              |  |            | Vegetation                                  | es No  |  |  |  |  |
|   |              | = Total Cov                                  | er         | Present? Ye                                 | S NO   |  |  |  |  |
| Remarks: (Include photo numbers here or on a separate s                   | heet.)       |  |            |   |  |  |  |  |  |
| Hydrophytic vegetation present.   |              |  |            |   |  |  |  |  |  |

SOIL Sampling Point: 1-D

| Profile Desc               | ription: (Describe                         | e to the de | oth needed to docu     | ment the               | indicator           | or confire            | n the absence of inc | dicators.)                                    |
|----------------------------|--|-------------|------------------------|------------------------|---------------------|-----------------------|----------------------|---|
| Depth                      | Matrix                                     |             | Redo                   | ox Feature             | es                  |                       |                      |   |
| (inches)                   | Color (moist)                              | %           | Color (moist)          | %                      | Type <sup>1</sup> _ | _Loc <sup>2</sup>     | Texture              | Remarks                                       |
| 0-4                        | 10YR 4/2                                   | _ 90        | 10YR 5/6               | _ 10                   | _ <u>C</u>          | <u>M</u>              | Silty Clay Loam      |   |
| 4-20                       | 10YR 4/2                                   | 75          | 10YR 5/6               | 25                     | <u> </u>            | <u>M</u>              | Silty Clay Loam      |   |
|                            |  |             |                        |                        |                     |                       |                      |   |
|                            |  |             |                        |                        |                     |                       |                      |   |
|                            |  |             |                        |                        |                     |                       |                      |   |
|                            |  |             |                        |                        |                     |                       |                      |   |
| <u> </u>                   |  |             |                        |                        |                     |                       |                      |   |
|                            |  |             |                        |                        |                     |                       |                      |   |
|                            |  | pletion, RM | =Reduced Matrix, M     | S=Maske                | d Sand Gr           | ains.                 |                      | Pore Lining, M=Matrix.                        |
| Hydric Soil                |  |             |                        |                        |                     |                       |                      | roblematic Hydric Soils <sup>3</sup> :        |
| Histosol                   | . ,  |             |                        | -                      | atrix (S4)          |                       | _                    | e Redox (A16)                                 |
| ı —                        | oipedon (A2)<br>stic (A3)                  |             |                        | Redox (S<br>d Matrix ( |                     |                       | Dark Surface         | e (57)<br>nese Masses (F12)                   |
| ı —                        | en Sulfide (A4)                            |             |                        |                        | ineral (F1)         |                       |                      | v Dark Surface (TF12)                         |
|                            | d Layers (A5)                              |             |                        |                        | latrix (F2)         |                       |                      | in in Remarks)                                |
| 2 cm Mu                    | ıck (A10)                                  |             | ✓ Deplete              | ed Matrix              | (F3)                |                       |                      |   |
| ı — ·                      | d Below Dark Surfa                         | ce (A11)    | _                      | Dark Sur               | . ,                 |                       | 2                    |   |
| _                          | ark Surface (A12)                          |             |                        |                        | urface (F7          | )                     |                      | drophytic vegetation and                      |
|                            | ในcky Mineral (S1)<br>เcky Peat or Peat (ร | 23)         | Redox                  | Depressi               | ons (F8)            |                       | •                    | ology must be present,<br>bed or problematic. |
|                            | Layer (if observed                         |             |                        |                        |                     |                       | dilless distal       | bed of problematic.                           |
| l _                        | ,  |             |                        |                        |                     |                       |                      |   |
|                            | ches):                                     |             |                        |                        |                     |                       | Hydric Soil Prese    | ent? Yes No                                   |
| Remarks:                   |  |             |                        |                        |                     |                       |                      |   |
| Hydric                     | soil present                               | •           |                        |                        |                     |                       |                      |   |
| HYDROLO                    | GY   |             |                        |                        |                     |                       |                      |   |
| Wetland Hy                 | drology Indicators                         | ):          |                        |                        |                     |                       |                      |   |
| 1                          | 0,   |             | ired; check all that a | (vlaa                  |                     |                       | Secondary Ind        | licators (minimum of two required)            |
|                            | Water (A1)                                 |             | Water-Sta              |                        | ves (B9)            |                       |                      | oil Cracks (B6)                               |
| 1 —                        | ater Table (A2)                            |             | Aquatic F              |                        | , ,                 |                       |                      | Patterns (B10)                                |
| ✓ Saturation               | on (A3)                                    |             | True Aqu               | atic Plant             | s (B14)             |                       | Dry-Seaso            | on Water Table (C2)                           |
| Water M                    | larks (B1)                                 |             | Hydrogen               | Sulfide C              | odor (C1)           |                       | Crayfish E           | Burrows (C8)                                  |
| Sedimer                    | nt Deposits (B2)                           |             | Oxidized               | Rhizosph               | eres on Liv         | ing Roots             | (C3) Saturation      | Visible on Aerial Imagery (C9)                |
| <u>✓</u> Drift Dep         | posits (B3)                                |             | Presence               | of Reduc               | ed Iron (C          | 4)                    | Stunted or           | r Stressed Plants (D1)                        |
| -                          | at or Crust (B4)                           |             | Recent Ire             | on Reduc               | tion in Tille       | d Soils (C            |                      | nic Position (D2)                             |
| I —                        | posits (B5)                                |             | Thin Muc               |                        | ` '                 |                       | ✓ FAC-Neut           | ral Test (D5)                                 |
| ı —                        | on Visible on Aerial                       |             | . —                    |                        | . ,                 |                       |                      |   |
|                            | / Vegetated Conca                          | ve Surface  | (B8) Other (Ex         | plain in R             | emarks)             |                       |                      |   |
| Field Obser                |  | v <b>v</b>  | No Depth (ir           | 1                      |                     |                       |                      |   |
| Surface Wat                |  |             |                        |                        |                     | -                     |                      |   |
| Water Table                |  | _           | No Depth (in           |                        |                     | —   <sub>\**</sub> -4 | land Ukadaalaan Baa  |   |
| Saturation P (includes car |  | Yes         | No Depth (in           | icnes): <u>U</u>       |                     | _   wet               | iand Hydrology Pres  | sent? Yes No                                  |
| Describe Re                | corded Data (stream                        | m gauge, m  | onitoring well, aerial | photos, p              | revious ins         | spections),           | , if available:      |   |
| Remarks:                   |  |             |                        |                        |                     |                       |                      |   |
|                            | l hydrology                                | nracar      | ıt.                    |                        |                     |                       |                      |   |
| VVCtiant                   | i iiyai ology                              | Piesei      |                        |                        |                     |                       |                      |   |
|                            |  |             |                        |                        |                     |                       |                      |   |

| Project/Site: AEP Fostoria to Lima                       | City                   | //County: Arcadia    | /Hancock                              | Sampling Date: 2022-06-29                    |
|--|------------------------|----------------------|---------------------------------------|--|
| Applicant/Owner: AEP                                     |                        |                      | State: Ohio                           | Sampling Point: 1-D UPL                      |
| Investigator(s): Beth Hollinden, Chris Davisso           | on Sec                 | ction, Township, Rai | nge: OH01 T2N R11E                    | SN23   |
| Landform (hillslope, terrace, etc.): Flat                |                        | Local relief         | (concave, convex, none):              | None   |
| Slope (%): 0 Lat: 41.112835                              | Lor                    | ng:83.5563           |                                       | Datum: WGS 84                                |
| Soil Map Unit Name: SoA                                  |                        |                      | NWI classific                         | ation: R2UBH                                 |
| Are climatic / hydrologic conditions on the site typical | for this time of year? |                      |                                       |  |
| Are Vegetation, Soil, or Hydrology                       |                        |                      |                                       |  |
| Are Vegetation, Soil, or Hydrology                       | naturally proble       | matic? (If ne        | eded, explain any answe               | rs in Remarks.)                              |
| SUMMARY OF FINDINGS - Attach site                        | map showing sa         | ampling point le     | ocations, transects                   | , important features, etc.                   |
| Hydrophytic Vegetation Present? Yes                      | No                     |                      |                                       |  |
| Hydric Soil Present? Yes                                 | No                     | Is the Sampled       |                                       |  |
| Wetland Hydrology Present? Yes                           | No                     | within a Wetlar      | nd? Yes                               | No   |
| Remarks:   |                        |                      |                                       |  |
| Upland point for Wetland 1-D. L                          | ocated on ed           | dge of agric         | ultural field.                        |  |
| VECETATION Lies escentific names of n                    | lanta                  |                      |                                       |  |
| <b>VEGETATION</b> – Use scientific names of p            |                        | ominant Indicator    | Dominance Test work                   | abot   |
| Tree Stratum (Plot size: 30 ft r )                       | % Cover S              | pecies? Status       | Number of Dominant S                  |  |
| 1  |                        |                      | That Are OBL, FACW,                   |  |
| 2  |                        |                      | Total Number of Domin                 | ant  |
| 3  |                        |                      | Species Across All Stra               | •  |
| 4  |                        |                      | Percent of Dominant Sp                | pecies                                       |
| 5  |                        |                      | That Are OBL, FACW,                   |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r                | = T                    | otal Cover           | Prevalence Index wor                  | ksheet:                                      |
| 1  |                        |                      | Total % Cover of:                     | Multiply by:                                 |
| 2.   |                        |                      | OBL species 0                         | x 1 = 0                                      |
| 3.   |                        |                      | 1                                     | x 2 = 0                                      |
| 4  |                        |                      |                                       | x 3 = <u>0</u>                               |
| 5  |                        |                      |                                       | x 4 = <u>40</u>                              |
| 5 ft r   | = T                    | Total Cover          | UPL species 0                         |  |
| Herb Stratum (Plot size: 5 ft r )  1. Glycine max        | 25                     | V                    | Column Totals: 10                     | (A) <u>40</u> (B)                            |
| 2. Phleum pratense                                       | $\frac{25}{5}$         | FACU                 | Prevalence Index                      | = B/A = 4.00                                 |
| 3. Trifolium repens                                      |                        | FACU                 | Hydrophytic Vegetation                |  |
| 4.   |                        |                      | 1 - Rapid Test for H                  | Hydrophytic Vegetation                       |
| 5  |                        |                      | 2 - Dominance Tes                     | it is >50%                                   |
| 6  |                        |                      | 3 - Prevalence Inde                   | ex is ≤3.0 <sup>1</sup>                      |
| 7.   |                        |                      | 4 - Morphological A                   | Adaptations <sup>1</sup> (Provide supporting |
| 8  |                        |                      |                                       | s or on a separate sheet)                    |
| 9  |                        |                      | Problematic Hydrol                    | phytic Vegetation <sup>1</sup> (Explain)     |
| 10   |                        |                      | <sup>1</sup> Indicators of hydric soi | il and wetland hydrology must                |
| Woody Vine Stratum (Plot size: 30 ft r                   | <u>35%</u> = T         | Total Cover          | be present, unless distu              |  |
| 1.   |                        |                      | Hydrophytic                           |  |
| 2  |                        |                      | Vegetation                            | 🗸  |
|  | = T                    | Total Cover          | Present? Yes                          | s No   |
| Remarks: (Include photo numbers here or on a sep         | parate sheet.)         |                      |                                       |  |
| Hydrophytic vegetation absent                            | . 65% bare g           | round due t          | o farming.                            |  |
|  | _                      |                      |                                       |  |

US Army Corps of Engineers

SOIL Sampling Point: 1-D UPL

| Profile Desc               | cription: (Describe                      | to the depth    | needed to docur               | nent the i              | indicator of       | or confirm          | the absence of   | indicators.)  |
|----------------------------|--|-----------------|-------------------------------|-------------------------|--------------------|---------------------|------------------|---|
| Depth                      | Matrix                                   |                 |                               | x Feature               | S                  |                     | _                |   |
| (inches)                   | Color (moist)                            |                 | Color (moist)                 | %                       | _Type <sup>1</sup> | _Loc <sup>2</sup> _ | Texture          | Remarks   |
| 0 - 20                     | 10YR 4/3                                 | _ <u>100</u> _  |                               |                         |                    |                     | Clay Loam _      |   |
|                            |  |                 |                               |                         |                    |                     |                  |   |
|                            |  |                 |                               |                         |                    |                     |                  |   |
| -                          |  |                 |                               |                         |                    |                     |                  |   |
| -                          |  |                 |                               |                         |                    |                     |                  |   |
|                            |  |                 |                               |                         |                    |                     |                  |   |
|                            |  |                 |                               |                         |                    |                     |                  |   |
| <sup>1</sup> Type: C=Co    | oncentration, D=Dep                      | oletion, RM=R   | educed Matrix, MS             | S=Masked                | d Sand Gra         | ains.               |                  | PL=Pore Lining, M=Matrix.  r Problematic Hydric Soils³: |
| Histosol                   |  |                 | Sandy                         | Gleyed Ma               | atriv (SA)         |                     |                  | airie Redox (A16)                                       |
| ı —                        | oipedon (A2)                             |                 |                               | Redox (S5               |                    |                     | Dark Sur         | . ,   |
| ı —                        | istic (A3)                               |                 |                               | d Matrix (S             |                    |                     |                  | ganese Masses (F12)                                     |
| Hydroge                    | en Sulfide (A4)                          |                 | Loamy I                       | Mucky Mir               | neral (F1)         |                     |                  | llow Dark Surface (TF12)                                |
| I —                        | d Layers (A5)                            |                 | _ ′                           | Gleyed Ma               | , ,                |                     | Other (Ex        | rplain in Remarks)                                      |
| ı —                        | ick (A10)                                | - (0.14)        |                               | d Matrix (              |                    |                     |                  |   |
| ı —                        | d Below Dark Surfac<br>ark Surface (A12) | e (ATT)         | _                             | Dark Surfa<br>d Dark Su | irface (F7)        |                     | 3Indicators of   | f hydrophytic vegetation and                            |
| ı —                        | Mucky Mineral (S1)                       |                 |                               | Depressio               | , ,                |                     |                  | lydrology must be present,                              |
| 5 cm Mu                    | icky Peat or Peat (S                     | 3)              |                               | _                       |                    |                     | unless di        | sturbed or problematic.                                 |
| Restrictive I              | Layer (if observed)                      | :               |                               |                         |                    |                     |                  |   |
| Type:                      |  |                 | _                             |                         |                    |                     | Hydric Soil Pr   | resent? Yes No  |
| Depth (in                  | ches):                                   |                 | _                             |                         |                    |                     | ,                |   |
| Hydric                     | soil absent.                             |                 |                               |                         |                    |                     |                  |   |
| HYDROLO                    | GY                                       |                 |                               |                         |                    |                     |                  |   |
| 1                          | drology Indicators                       |                 |                               |                         |                    |                     |                  |   |
| Primary India              | cators (minimum of                       | one is required | d; check all that ap          | ply)                    |                    |                     | <u>Secondary</u> | Indicators (minimum of two required)                    |
| I —                        | Water (A1)                               |                 | Water-Sta                     |                         | , ,                |                     |                  | e Soil Cracks (B6)                                      |
| ı —                        | ater Table (A2)                          |                 | Aquatic Fa                    | ,                       | ,                  |                     | _                | ge Patterns (B10)                                       |
| Saturation                 | on (A3)<br>larks (B1)                    |                 | True Aqua<br>Hydrogen         |                         |                    |                     |                  | eason Water Table (C2)<br>sh Burrows (C8)               |
| ı —                        | nt Deposits (B2)                         |                 | Oxidized F                    |                         | , ,                | na Roots            |                  | tion Visible on Aerial Imagery (C9)                     |
|                            | posits (B3)                              |                 | Presence                      |                         |                    |                     |                  | d or Stressed Plants (D1)                               |
| —                          | at or Crust (B4)                         |                 | Recent Iro                    |                         | ,                  | ,                   |                  | orphic Position (D2)                                    |
| Iron Dep                   | posits (B5)                              |                 | Thin Muck                     | Surface (               | (C7)               |                     | FAC-N            | leutral Test (D5)                                       |
| Inundati                   | on Visible on Aerial                     | Imagery (B7)    | Gauge or \                    | Well Data               | (D9)               |                     |                  |   |
| Sparsely                   | y Vegetated Concav                       | e Surface (B8   | Other (Exp                    | olain in Re             | emarks)            |                     |                  |   |
| Field Obser                |  |                 | .,                            |                         |                    |                     |                  |   |
| Surface Wat                |  |                 | Depth (inc                    |                         |                    |                     |                  |   |
| Water Table                |  |                 | Depth (in                     |                         |                    |                     |                  |   |
| Saturation P (includes cap |  |                 | Depth (including well aerial) |                         |                    |                     |                  | Present? Yes No   |
| Describe Re                | Corded Data (Stream                      | i gauge, moni   | toring well, aerial p         | priotos, pr             | evious iris        | pections),          | ii avaiiable.    |   |
| Remarks:                   |  |                 |                               |                         |                    |                     |                  |   |
| Wetland                    | l hydrology                              | absent.         |                               |                         |                    |                     |                  |   |
|                            | , 3,                                     |                 |                               |                         |                    |                     |                  |   |
|                            |  |                 |                               |                         |                    |                     |                  |   |

| Project/Site: AEP Fostoria to Lima                |                    | Ci                 | ity/County: | Findlay/   | Hancock  | Sampling Date: 20                              | )22-06-30    |
|---|--------------------|--------------------|-------------|------------|--|--|--------------|
| Applicant/Owner: AEP                              |                    |                    |             |            | State: Ohio                                      | Sampling Point: 1-                             | ·E           |
| Investigator(s): Beth Hollinden, Chris            | Davisson           | S                  | ection, Tow | nship, Rar | nge: OH01 T2N R11E                               | SN27   |              |
| Landform (hillslope, terrace, etc.): Depre        | ssion Toeslo       |                    |             |            | (concave, convex, none):                         |  |              |
| Slope (%): 2 Lat: 41.10474                        | 7                  | Lo                 | ong:83.     | 580473     |  | Datum: WGS 84                                  |              |
| Soil Map Unit Name: PmA                           |                    |                    |             |            | NWI classific                                    | ation: N/A                                     |              |
| Are climatic / hydrologic conditions on the       | site typical for t | his time of year   | ? Yes       |            |  |  |              |
| Are Vegetation, Soil, or Hy                       | drology            | _ significantly di | isturbed?   | Are "l     | Normal Circumstances" p                          | resent? Yes                                    | No           |
| Are Vegetation, Soil, or Hy                       | drology            | _ naturally probl  | lematic?    | (If ne     | eded, explain any answe                          | rs in Remarks.)                                |              |
| SUMMARY OF FINDINGS - Atta                        | ach site ma        | p showing s        | sampling    | point lo   | ocations, transects                              | , important feat                               | tures, etc.  |
| Hydrophytic Vegetation Present?                   | Yes _ 🗸            | No                 |             |            |  |  |              |
| Hydric Soil Present?                              | Yes                |                    |             | Sampled    |  |  |              |
| Wetland Hydrology Present?                        | Yes                | No                 | withir      | n a Wetlan | id? Yes  | No   |              |
| Remarks:  |                    |                    | _           |            |  |  |              |
| PEM. Escaping ditch line.                         | ORAM s             | core of 13         | 3.          |            |  |  |              |
| VEGETATION – Use scientific na                    | mes of plant       | ts.                |             |            |  |  |              |
| 7 0 1 (D) 1 30 ft r                               |                    |                    | Dominant    |            | Dominance Test work                              | sheet:   |              |
|   | )                  | % Cover            |             |            | Number of Dominant Sp<br>That Are OBL, FACW, of  |  | (A)          |
| 1<br>2  |                    |                    |             |            |  |  | (^)          |
| 3.  |                    |                    |             |            | Total Number of Domin<br>Species Across All Stra | 4  | (B)          |
| 4   |                    |                    |             |            | Percent of Dominant Sp                           |  |              |
| 5   |                    |                    |             |            | That Are OBL, FACW, of                           |  | (A/B)        |
| Sapling/Shrub Stratum (Plot size: 15 ft           | tr )               | =                  | Total Cove  | )r         | Prevalence Index work                            | ksheet:  |              |
| 1   |                    |                    |             |            | Total % Cover of:                                | Multiply b                                     | oy:          |
| 2.  |                    |                    |             |            | OBL species 100                                  | x 1 = 100                                      |              |
| 3   |                    |                    |             |            | FACW species 0                                   | x 2 = <u>0</u>                                 |              |
| 4   |                    |                    |             |            |  | x 3 = <u>0</u>                                 |              |
| 5   |                    |                    |             |            |  | x 4 = 0  |              |
| Herb Stratum (Plot size: 5 ft r                   | `                  | =                  | Total Cove  | er .       | UPL species 0                                    | 400  |              |
| 1. Typha angustifolia                             |                    | 100                | ~           | OBL        | Column Totals: 100                               | (A) <u>100</u>                                 | (B)          |
| 2.  |                    |                    |             |            | Prevalence Index                                 | = B/A = 1.00                                   |              |
| 3.  |                    |                    |             |            | Hydrophytic Vegetation                           | n Indicators:                                  |              |
| 4   |                    |                    |             |            | ✓ 1 - Rapid Test for H                           | łydrophytic Vegetati                           | on           |
| 5   |                    |                    |             |            | 2 - Dominance Tes                                |  |              |
| 6   |                    |                    |             |            | ✓ 3 - Prevalence Inde                            |  |              |
| 7   |                    |                    |             |            | 4 - Morphological A                              | Adaptations¹ (Provide<br>s or on a separate sh | e supporting |
| 8   |                    |                    |             |            | Problematic Hydron                               |  |              |
| 9   |                    |                    |             |            | _  | , , ,  | . ,          |
| 10  |                    | 100% =             | Total Cove  |            | <sup>1</sup> Indicators of hydric soi            | l and wetland hydrol                           | ogy must     |
| Woody Vine Stratum (Plot size: 30 ft r            | )                  | 10070              | Total Cove  | :1         | be present, unless distu                         | irbed or problematic                           |              |
| 1   |                    |                    |             |            | Hydrophytic                                      |  |              |
| 2   |                    |                    |             |            | Vegetation Present? Yes                          | s No   |              |
| Pomorko: (Include whate acceptance to acceptance) | or on a sensu-1    |                    | Total Cove  | r          | 16.  |  |              |
| Remarks: (Include photo numbers here              |                    | e sneet.)          |             |            |  |  |              |
| Hydrophytic vegetation p                          | oresent.           |                    |             |            |  |  |              |

SOIL Sampling Point: 1-E

| Profile Desc            | ription: (Describe                       | to the depth    | needed to docur       | nent the                | indicator              | or confirm        | the absence of in         | dicators.)                              |
|-------------------------|--|-----------------|-----------------------|-------------------------|------------------------|-------------------|---------------------------|---|
| Depth                   | Matrix                                   |                 |                       | x Feature               |                        |                   |                           |   |
| (inches)                | Color (moist)                            | %               | Color (moist)         | %                       | _Type <sup>1</sup>     | _Loc <sup>2</sup> |                           | Remarks                                 |
| 0 - 20                  | 10YR 4/1                                 | _ <u>95 1</u>   | 0YR 5/6               | 5                       | <u> </u>               | <u>M</u>          | Silty Clay                |   |
| -                       |  |                 |                       |                         |                        |                   |                           |   |
|                         |  |                 |                       |                         |                        |                   |                           |   |
|                         |  |                 |                       |                         |                        |                   |                           |   |
|                         |  |                 |                       |                         |                        |                   |                           |   |
| <u> </u>                |  |                 |                       |                         |                        |                   |                           |   |
|                         |  |                 |                       |                         |                        |                   |                           |   |
| -                       |  |                 |                       |                         |                        |                   |                           |   |
| <sup>1</sup> Type: C=Ce | oncentration, D=De                       | oletion, RM=R   | educed Matrix, MS     | S=Masked                | d Sand Gr              | ains.             | <sup>2</sup> Location: PL | =Pore Lining, M=Matrix.                 |
| Hydric Soil             |  |                 |                       |                         |                        |                   |                           | Problematic Hydric Soils <sup>3</sup> : |
| Histosol                | (A1)                                     |                 | Sandy 0               | Sleyed Ma               | atrix (S4)             |                   | Coast Prair               | ie Redox (A16)                          |
| Histic Ep               | oipedon (A2)                             |                 | Sandy F               | Redox (S5               | 5)                     |                   | Dark Surfac               | ce (S7)                                 |
| ı —                     | stic (A3)                                |                 |                       | Matrix (S               | ,                      |                   |                           | nese Masses (F12)                       |
|                         | en Sulfide (A4)                          |                 |                       |                         | neral (F1)             |                   |                           | w Dark Surface (TF12)                   |
| ı —                     | d Layers (A5)                            |                 |                       | Gleyed M                |                        |                   | Other (Expl               | ain in Remarks)                         |
| ı —                     | ick (A10)                                | no (A11)        |                       | d Matrix (              |                        |                   |                           |   |
| ı — ·                   | d Below Dark Surfac<br>ark Surface (A12) | ce (ATT)        | _                     | Dark Surfa<br>d Dark Si | ace (F6)<br>urface (F7 | )                 | 3Indicators of h          | ydrophytic vegetation and               |
| I —                     | fucky Mineral (S1)                       |                 |                       | Dark Ot<br>Depressio    | ,                      | ,                 |                           | lrology must be present,                |
|                         | icky Peat or Peat (S                     | 33)             |                       |                         | ()                     |                   | •                         | rbed or problematic.                    |
|                         | Layer (if observed)                      |                 |                       |                         |                        |                   |                           | •                                       |
| Type:                   |  |                 | _                     |                         |                        |                   |                           | ./                                      |
| Depth (in               | ches):                                   |                 | _                     |                         |                        |                   | Hydric Soil Pres          | sent? Yes No                            |
| Remarks:                |  |                 |                       |                         |                        |                   |                           |   |
| Hydric                  | soil present.                            |                 |                       |                         |                        |                   |                           |   |
| Try dire .              | son present.                             |                 |                       |                         |                        |                   |                           |   |
|                         |  |                 |                       |                         |                        |                   |                           |   |
|                         |  |                 |                       |                         |                        |                   |                           |   |
| <b>HYDROLO</b>          | GY                                       |                 |                       |                         |                        |                   |                           |   |
| Wetland Hy              | drology Indicators                       | :               |                       |                         |                        |                   |                           |   |
| Primary India           | cators (minimum of                       | one is required | d; check all that ap  | ply)                    |                        |                   | Secondary In              | dicators (minimum of two required)      |
| Surface                 | Water (A1)                               |                 | Water-Sta             | ned Leav                | res (B9)               |                   | Surface \$                | Soil Cracks (B6)                        |
| High Wa                 | ater Table (A2)                          |                 | Aquatic Fa            | una (B13                | 3)                     |                   | Drainage                  | Patterns (B10)                          |
| Saturation              | on (A3)                                  |                 | True Aqua             | tic Plants              | (B14)                  |                   | Dry-Seas                  | son Water Table (C2)                    |
| Water M                 | larks (B1)                               |                 | Hydrogen              | Sulfide O               | dor (C1)               |                   | Crayfish                  | Burrows (C8)                            |
| Sedimer                 | nt Deposits (B2)                         |                 | Oxidized F            | Rhizosphe               | eres on Liv            | ing Roots         | (C3) Saturatio            | n Visible on Aerial Imagery (C9)        |
| Drift Dep               | posits (B3)                              |                 | Presence              | of Reduce               | ed Iron (C             | 4)                | Stunted of                | or Stressed Plants (D1)                 |
| Algal Ma                | at or Crust (B4)                         |                 | Recent Iro            | n Reducti               | ion in Tille           | d Soils (C6       | Geomorp                   | phic Position (D2)                      |
| Iron Dep                | oosits (B5)                              |                 | Thin Muck             | Surface                 | (C7)                   |                   | 🖊 FAC-Neu                 | ıtral Test (D5)                         |
| Inundati                | on Visible on Aerial                     | Imagery (B7)    | Gauge or '            | Well Data               | (D9)                   |                   |                           |   |
| Sparsely                | Vegetated Concav                         | e Surface (B8   | Other (Exp            | lain in Re              | emarks)                |                   |                           |   |
| Field Obser             |  |                 | . 4                   |                         |                        |                   |                           |   |
| Surface Wat             |  |                 | Depth (in             |                         |                        |                   |                           |   |
| Water Table             | Present?                                 | Yes No          | Depth (in             | ches):                  |                        | _                 |                           |   |
| Saturation P            | resent?                                  | Yes No          | Depth (in             | ches):                  |                        | Wetl              | and Hydrology Pre         | esent? Yes No                           |
| (includes cap           | oillary fringe)<br>corded Data (strean   | a aquaa mani    | toring well gorial    | shoton n                | ovious in              | nootiona          | if available:             |   |
| Describe Re             | corded Data (Stream                      | ii gauge, moni  | toring well, aeriai į | oriotos, pi             | evious iris            | spections),       | ii avallable.             |   |
| Domorko                 |  |                 |                       |                         |                        |                   |                           |   |
| Remarks:                |  |                 |                       |                         |                        |                   |                           |   |
| Wetland                 | l hydrology                              | present.        |                       |                         |                        |                   |                           |   |
|                         |  |                 |                       |                         |                        |                   |                           |   |
|                         |  |                 |                       |                         |                        |                   |                           |   |

| Project/Site: AEP Fostoria to Lima                               | (               | City/Co    | ounty: | Findlay/      | Hancock  | Sampling Date: 2                             | 2022-06-30              |
|--|-----------------|------------|--------|---------------|--|--|-------------------------|
| Applicant/Owner: AEP   |                 |            |        |               | State: Ohio                                      | Sampling Point: 1                            | -E/F UPL                |
| Investigator(s): Beth Hollinden, Chris Davisson                  |                 | Section    | n, Tov | vnship, Rar   | nge: OH01 T2N R11E                               | SN27   |                         |
| Landform (hillslope, terrace, etc.): Flat                        |                 |            | L      | ocal relief ( | (concave, convex, none):                         | None   |                         |
| Slope (%): 0 Lat: 41.104745                                      | ι               | _ong: _    | -83.   | 580473        |  | Datum: WGS 84                                | 1                       |
| Soil Map Unit Name: PmA  |                 |            |        |               | NWI classific                                    | ation: N/A                                   |                         |
| Are climatic / hydrologic conditions on the site typical for the | nis time of yea | ar? Ye     | s      | No _          | (If no, explain in R                             | emarks.)                                     |                         |
| Are Vegetation, Soil, or Hydrology                               | significantly   | disturb    | ed?    | Are "         | Normal Circumstances" p                          | resent? Yes                                  | No                      |
| Are Vegetation, Soil, or Hydrology                               | naturally prol  | blemat     | tic?   | (If ne        | eded, explain any answe                          | rs in Remarks.)                              |                         |
| SUMMARY OF FINDINGS - Attach site map                            | showing         | sam        | pling  | j point k     | ocations, transects                              | , important fea                              | atures, etc.            |
| Hydrophytic Vegetation Present? Yes                              | No              |            |        |               |  |  |                         |
| Hydric Soil Present? Yes   |                 |            |        | Sampled       |  |  |                         |
| Wetland Hydrology Present? Yes                                   | No              |            | withi  | n a Wetlan    | id? Yes  | No   |                         |
| Remarks:   |                 |            |        |               |  |  |                         |
| Upland point for Wetland 1-E and '                               | Wetland         | 1-F        | •      |               |  |  |                         |
| VEGETATION – Use scientific names of plants                      | S.              |            |        |               |  |  |                         |
|  | Absolute        | Domi       | nant   | Indicator     | Dominance Test work                              | sheet:                                       |                         |
| Tree Stratum (Plot size: 30 ft r )                               | % Cover         |            |        |               | Number of Dominant Sp                            |  |                         |
| 1  |                 |            |        |               | That Are OBL, FACW, o                            | or FAC: 0                                    | (A)                     |
| 2<br>3   |                 |            |        |               | Total Number of Domin                            | ^  | (B)                     |
| 4  |                 |            |        |               | Species Across All Stra                          |  | (b)                     |
| 5  |                 |            |        |               | Percent of Dominant Sp<br>That Are OBL, FACW, of |  | (A/B)                   |
| 15 ft r  |                 | = Tota     | l Cov  | er            | Prevalence Index wor                             |  |                         |
| Sapling/Shrub Stratum (Plot size: 15 ft r )  1)                  |                 |            |        |               | Total % Cover of:                                |  | by:                     |
| 2.   |                 |            |        |               |  | x 1 = 0                                      | <u></u>                 |
| 3  |                 |            |        |               | 1  | x 2 = 0                                      |                         |
| 4  |                 |            |        |               |  | x 3 = 30                                     |                         |
| 5  |                 |            |        |               |  | x 4 = <u>320</u>                             |                         |
| 5 ftr  |                 | = Tota     | l Cov  | er            | UPL species 0                                    |  |                         |
| Herb Stratum (Plot size: 5 ft r )  1. Festuca rubra              | 30              | ,          | ,      | FACU          | Column Totals: 90                                | (A) <u>350</u>                               | (B)                     |
| 2 Solidago canadensis  | 30              |            | ,      | FACU          | Prevalence Index                                 | = B/A = <u>3.89</u>                          |                         |
| 3. Digitaria bicornis  | 20              |            | _      | FACU          | Hydrophytic Vegetation                           | on Indicators:                               |                         |
| 4. Rumex crispus   | 10              |            |        | FAC           | 1 - Rapid Test for H                             | lydrophytic Vegeta                           | tion                    |
| 5  |                 |            |        |               | 2 - Dominance Tes                                |  |                         |
| 6  |                 |            |        |               | 3 - Prevalence Inde                              |  |                         |
| 7  |                 |            |        |               | 4 - Morphological A                              | Adaptations* (Provid<br>s or on a separate s | de supporting<br>sheet) |
| 8  |                 |            |        |               | Problematic Hydro                                |  |                         |
| 9  |                 |            | _      |               |  |  |                         |
| 10   | 000/            | <br>= Tota | I Cov  | er            | <sup>1</sup> Indicators of hydric soi            |  |                         |
| Woody Vine Stratum (Plot size: 30 ft r                           |                 |            |        |               | be present, unless distu                         | Irbed or problemati                          | C.                      |
| 1  |                 |            |        |               | Hydrophytic                                      |  |                         |
| 2  |                 |            |        |               | Vegetation<br>  Present? Yes                     | s No   |                         |
| Remarks: (Include photo numbers here or on a separate            |                 | = Tota     | I Cov  | er            | <u> </u>   |  |                         |
|  | 2               |            |        |               |  |  |                         |
| Hydrophytic vegetation absent.                                   |                 |            |        |               |  |  |                         |

SOIL Sampling Point: 1-E/F UPL

| Profile Description: (Descr                     | ibe to the dept   | h needed to docur       | nent the                 | indicator         | or confirn          | n the absence of indicators.)                          |    |
|---|-------------------|-------------------------|--------------------------|-------------------|---------------------|--|----|
| DepthMatr                                       |                   | Redo                    | x Feature                |                   |                     |  |    |
| (inches) Color (moist                           |                   | Color (moist)           | %                        | Type <sup>1</sup> | _Loc <sup>2</sup> _ | Texture Remarks  | _  |
| 0 - 14 10YR 4/1                                 | <u> </u>          |                         |                          |                   |                     | Silty Clay   | _  |
| 14 - 20 10YR 4/1                                | <u> </u>          | 10YR 5/6                | 5                        | <u> </u>          | <u>M</u>            | Silty Clay   | _  |
| -   |                   |                         |                          |                   |                     |  |    |
| -   |                   |                         |                          |                   |                     |  | _  |
|   |                   |                         |                          |                   |                     |  | -  |
|   |                   |                         |                          |                   |                     | · <del></del>  | -  |
| <del></del>                                     |                   |                         |                          |                   |                     |  | -  |
|   |                   |                         |                          |                   |                     |  | _  |
| <sup>1</sup> Type: C=Concentration, D=          | Depletion, RM=    | Reduced Matrix, MS      | S=Maske                  | d Sand Gr         | ains.               | <sup>2</sup> Location: PL=Pore Lining, M=Matrix.       |    |
| Hydric Soil Indicators:                         |                   |                         |                          |                   |                     | Indicators for Problematic Hydric Soils <sup>3</sup> : |    |
| Histosol (A1)                                   |                   |                         | Gleyed Ma                |                   |                     | Coast Prairie Redox (A16)                              |    |
| Histic Epipedon (A2)                            |                   |                         | Redox (St                |                   |                     | Dark Surface (S7)                                      |    |
| Black Histic (A3)                               |                   |                         | Matrix (                 | ,                 |                     | Iron-Manganese Masses (F12)                            |    |
| Hydrogen Sulfide (A4)                           |                   |                         |                          | neral (F1)        |                     | Very Shallow Dark Surface (TF12)                       |    |
| Stratified Layers (A5) 2 cm Muck (A10)          |                   |                         | Gleyed M<br>d Matrix (   |                   |                     | Other (Explain in Remarks)                             |    |
| Depleted Below Dark Su                          | rface (A11)       |                         | u watiix (<br>Dark Surfa | ,                 |                     |  |    |
| Thick Dark Surface (A12                         | , ,               | _                       |                          | urface (F7)       | )                   | <sup>3</sup> Indicators of hydrophytic vegetation and  |    |
| Sandy Mucky Mineral (S                          | •                 |                         | Depressio                | , ,               | ,                   | wetland hydrology must be present,                     |    |
| 5 cm Mucky Peat or Pea                          |                   | _                       |                          | ( - /             |                     | unless disturbed or problematic.                       |    |
| Restrictive Layer (if observ                    |                   |                         |                          |                   |                     |  | _  |
| Туре:   |                   |                         |                          |                   |                     |  |    |
| Depth (inches):                                 |                   |                         |                          |                   |                     | Hydric Soil Present? Yes No                            |    |
| Remarks:  |                   |                         |                          |                   |                     |  | _  |
|   |                   |                         |                          |                   |                     |  |    |
|   |                   |                         |                          |                   |                     |  |    |
|   |                   |                         |                          |                   |                     |  |    |
|   |                   |                         |                          |                   |                     |  |    |
| HYDROLOGY                                       |                   |                         |                          |                   |                     |  |    |
| Wetland Hydrology Indicate                      | ors:              |                         |                          |                   |                     |  | _  |
| Primary Indicators (minimum                     |                   | ed: check all that an   | oply)                    |                   |                     | Secondary Indicators (minimum of two required          | I) |
| Surface Water (A1)                              | or one to require | Water-Sta               |                          | es (R9)           |                     | Surface Soil Cracks (B6)                               | 1  |
| High Water Table (A2)                           |                   | Aquatic Fa              |                          | , ,               |                     | Orange Patterns (B10)                                  |    |
| Saturation (A3)                                 |                   | True Aqua               | •                        | ,                 |                     | Dry-Season Water Table (C2)                            |    |
| Water Marks (B1)                                |                   | Hydrogen                |                          |                   |                     | Crayfish Burrows (C8)                                  |    |
| Sediment Deposits (B2)                          |                   | Oxidized F              |                          |                   | ina Pooto           |  |    |
|   |                   | Presence                |                          |                   | •                   | Stunted or Stressed Plants (D1)                        |    |
| Drift Deposits (B3) Algal Mat or Crust (B4)     |                   | Recent Iro              |                          | ,                 | ,                   |  |    |
| Iron Deposits (B5)                              |                   | Thin Muck               |                          |                   | u Solis (Co         | FAC-Neutral Test (D5)                                  |    |
| Inundation Visible on Ae                        | ial Imagan, (P7   |                         |                          |                   |                     | PAC-Neutral Test (D3)                                  |    |
| Sparsely Vegetated Con-                         |                   |                         |                          | . ,               |                     |  |    |
| Field Observations:                             | cave Surface (E   | Other (Exp              | Diali I II I K           | allial K5)        |                     |  | _  |
| Surface Water Present?                          | Vaa N             | lo Depth (in            | ahaa):                   |                   |                     |  |    |
| 1   | Yes               | lo Depth (in            | ches)                    |                   | -                   |  |    |
| Water Table Present?                            |                   |                         |                          |                   |                     | land Hardenberg Brown (2) Mary                         |    |
| Saturation Present? (includes capillary fringe) | YesN              | lo Depth (in            | cnes):                   |                   | _   Weti            | land Hydrology Present? Yes No                         | -  |
| Describe Recorded Data (stre                    | eam gauge, mo     | nitoring well, aerial į | photos, pi               | evious ins        | pections),          | , if available:  | _  |
|   |                   |                         |                          |                   |                     |  |    |
| Remarks:  |                   |                         |                          |                   |                     |  |    |
| Wetland hydrolog                                | v absent          |                         |                          |                   |                     |  |    |
| Trodaila ilyarolog                              | , 4000116.        |                         |                          |                   |                     |  |    |
|   |                   |                         |                          |                   |                     |  |    |
|   |                   |                         |                          |                   |                     |  |    |

| Project/Site: AEP Fostoria to Lima          |                  | c                  | ity/County      | Findlay/     | /Hancock  | Sampling Date: _               | 2022-06-30    |
|---|------------------|--------------------|-----------------|--------------|---|--------------------------------|---------------|
| Applicant/Owner: AEP                        |                  |                    |                 |              | State: Ohio   | Sampling Point: 1              | I-F           |
| Investigator(s): Beth Hollinden, Chris      | Davisson         | s                  | ection, To      | wnship, Ra   | nge: OH01 T2N R11E  | SN27                           |               |
| Landform (hillslope, terrace, etc.): Flat   |                  |                    | ו               | _ocal relief | (concave, convex, none):  | None                           |               |
| Slope (%): 0 Lat: 41.10471                  | 8                | L                  | ong: <u>-83</u> | .580266      |   | Datum: WGS 84                  | 4             |
| Soil Map Unit Name: PmA                     |                  |                    |                 |              | NWI classific   | ation: N/A                     |               |
| Are climatic / hydrologic conditions on the | site typical for | this time of year  | r? Yes          | No _         | (If no, explain in R  | temarks.)                      |               |
| Are Vegetation, Soil, or Hy                 | drology          | _ significantly di | isturbed?       | Are "        | 'Normal Circumstances" p  | present? Yes                   | No            |
| Are Vegetation, Soil, or Hy                 | drology          | _ naturally prob   | lematic?        | (If ne       | eeded, explain any answe  | rs in Remarks.)                |               |
| SUMMARY OF FINDINGS - Atta                  | ach site ma      | ap showing s       | samplin         | g point le   | ocations, transects   | , important fe                 | atures, etc.  |
| Hydrophytic Vegetation Present?             | Yes _ 🗸          | No                 |                 |              |   |                                |               |
| Hydric Soil Present?                        | Yes              | No                 |                 | e Sampled    |   | ,                              |               |
| Wetland Hydrology Present?                  | Yes              | No                 | with            | in a Wetlar  | nd? Yes   | No                             | )             |
| Remarks:                                    |                  |                    |                 |              |   |                                |               |
| PEM. ORAM score of 12.                      | Disturbe         | ed by surro        | oundin          | g land       | use.  |                                |               |
| VEGETATION – Use scientific na              | mes of plar      | nts.               |                 |              |   |                                |               |
|   | · ·              |                    | Dominant        | Indicator    | Dominance Test work   | sheet:                         |               |
| Tree Stratum (Plot size:30 ft r             | )                | % Cover            |                 |              | Number of Dominant Sp<br>That Are OBL, FACW,                      |                                | (A)           |
| 2   |                  |                    |                 |              | Total Number of Domin   | ant                            |               |
| 3   |                  |                    |                 |              | Species Across All Stra   | 4                              | (B)           |
| 4   |                  |                    |                 |              | Percent of Dominant Sp  |                                |               |
| 5   |                  | =                  | : Total Cov     | /er          | That Are OBL, FACW, o   | or FAC: 100                    | (A/B)         |
| Sapling/Shrub Stratum (Plot size: 15 f      | tr :             |                    |                 |              | Prevalence Index wor  |                                |               |
| 1   |                  |                    |                 |              | Total % Cover of:   |                                | / by:         |
| 2   |                  |                    |                 |              |   | x 1 = 90                       |               |
| 3   |                  |                    |                 |              |   | x 2 = 10                       |               |
| 4   |                  |                    |                 |              |   | x 3 = 15<br>x 4 = 0            |               |
| 5   |                  |                    |                 |              | UPL species 0   |                                |               |
| Herb Stratum (Plot size: 5 ft r             | )                |                    | Total Cov       | er           | Column Totals: 100  | (A) 115                        | (B)           |
| 1. Typha angustifolia                       |                  | 90                 |                 | OBL          |   |                                | (5)           |
| 2. Erigeron philadelphicus                  |                  | 5                  |                 | FACW         | Prevalence Index  |                                |               |
| 3. Rumex crispus                            |                  | 5                  |                 | FAC          | Hydrophytic Vegetation  |                                |               |
| 4   |                  |                    |                 |              | 1 - Rapid Test for H  | , , , ,                        | ition         |
| 5   |                  |                    |                 |              | 2 - Dominance Tes   |                                |               |
| 6   |                  |                    |                 |              | 3 - Prevalence Inde   |                                | do ounnortina |
| 7   |                  |                    |                 |              | data in Remarks   | s or on a separate             | sheet)        |
| 8   |                  |                    |                 |              | Problematic Hydro   | phytic Vegetation <sup>1</sup> | (Explain)     |
| 9<br>10                                     |                  |                    |                 |              |   |                                |               |
| Woody Vine Stratum (Plot size: 30 ft        |                  | 100% =             | Total Cov       | /er          | <sup>1</sup> Indicators of hydric soi<br>be present, unless distu |                                |               |
| 1   |                  |                    |                 |              | Hydrophytic   |                                |               |
| 2   |                  |                    |                 |              | Vegetation  | s No                           |               |
|   |                  |                    | Total Cov       | er           | Present? Yes  | SNO                            | _             |
| Remarks: (Include photo numbers here        |                  | ate sheet.)        |                 |              |   |                                |               |
| Hydrophytic vegetation                      | oresent.         |                    |                 |              |   |                                |               |

SOIL Sampling Point: 1-F

| Profile Desc                  | ription: (Describe                         | to the depth      | needed to docur       | nent the   | indicator          | or confirm        | n the absence of in        | dicators.)  |
|-------------------------------|--|-------------------|-----------------------|------------|--------------------|-------------------|----------------------------|---|
| Depth                         | Matrix                                     |                   | Redo                  | x Feature  | es                 |                   |                            |   |
| (inches)                      | Color (moist)                              | %                 | Color (moist)         | %          | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                    | Remarks   |
| 0 - 20                        | 10YR 4/1                                   | <u>95</u> 1       | 0YR 5/6               | 5          | <u>C</u>           | <u>M</u>          | Silty Clay                 |   |
| -                             |  |                   |                       |            |                    |                   |                            |   |
|                               |  |                   |                       |            |                    |                   |                            |   |
|                               |  |                   |                       |            |                    |                   |                            |   |
| <u> </u>                      |  |                   |                       |            |                    |                   |                            |   |
|                               |  |                   |                       |            |                    |                   |                            |   |
|                               |  |                   |                       |            |                    |                   |                            |   |
|                               |  |                   |                       |            |                    |                   |                            |   |
| ¹Type: C=C                    | oncentration, D=De                         | nletion RM=R      | educed Matrix MS      | S=Masker   | d Sand Gr          | raine             | <sup>2</sup> Location: PL: | =Pore Lining, M=Matrix.   |
| Hydric Soil                   |  | pietion, rtivi–rt | educed Matrix, Mc     | J-Washet   | u Gariu Gi         | airis.            |                            | Problematic Hydric Soils <sup>3</sup> :   |
| Histosol                      |  |                   | Sandy (               | Sleved Ma  | atrix (S4)         |                   |                            | e Redox (A16)   |
| ı —                           | oipedon (A2)                               |                   |                       | Redox (S5  |                    |                   | Dark Surfac                | . ,   |
| ı —                           | stic (A3)                                  |                   |                       | Matrix (   |                    |                   |                            | nese Masses (F12)   |
| Hydroge                       | en Sulfide (A4)                            |                   | Loamy I               | Mucky Mi   | neral (F1)         |                   | Very Shallo                | w Dark Surface (TF12)   |
| Stratified                    | d Layers (A5)                              |                   |                       |            | atrix (F2)         |                   | Other (Expla               | ain in Remarks)   |
| ı —                           | ıck (A10)                                  |                   |                       | d Matrix ( |                    |                   |                            |   |
| ı —                           | d Below Dark Surfac                        | ce (A11)          | _                     | Dark Surfa |                    |                   | 31                         | deserve de la constalia de la |
| _                             | ark Surface (A12)                          |                   |                       |            | urface (F7         | )                 |                            | ydrophytic vegetation and   |
|                               | lucky Mineral (S1)<br>icky Peat or Peat (S | :3)               | Redox I               | Depressio  | ons (Fo)           |                   | •                          | rology must be present,<br>irbed or problematic.  |
|                               | Layer (if observed)                        |                   |                       |            |                    |                   | unless dista               | inded of problematic.   |
| I                             |  |                   |                       |            |                    |                   |                            |   |
| 1                             | ches):                                     |                   | _                     |            |                    |                   | Hydric Soil Pres           | ent? Yes No   |
| Remarks:                      |  |                   |                       |            |                    |                   |                            |   |
| Hydric                        | soil present.                              |                   |                       |            |                    |                   |                            |   |
| HYDROLO                       | GY   |                   |                       |            |                    |                   |                            |   |
| Wetland Hy                    | drology Indicators                         | :                 |                       |            |                    |                   |                            |   |
| Primary India                 | cators (minimum of                         | one is required   | d; check all that ap  | ply)       |                    |                   | Secondary Inc              | dicators (minimum of two required)  |
| Surface                       | Water (A1)                                 |                   | Water-Sta             | ned Leav   | res (B9)           |                   | Surface S                  | Soil Cracks (B6)  |
| High Wa                       | iter Table (A2)                            |                   | Aquatic Fa            | •          | ,                  |                   | _                          | Patterns (B10)  |
| Saturation                    | , ,  |                   | True Aqua             |            |                    |                   | _ ′                        | son Water Table (C2)  |
| Water M                       |  |                   | Hydrogen              |            |                    |                   |                            | Burrows (C8)  |
| ı —                           | nt Deposits (B2)                           |                   | Oxidized F            |            |                    | -                 |                            | n Visible on Aerial Imagery (C9)  |
| ı —                           | posits (B3)                                |                   | Presence              |            | •                  | •                 |                            | or Stressed Plants (D1)   |
| -                             | at or Crust (B4)                           |                   | Recent Iro            |            |                    | ed Soils (C6      | . — .                      | phic Position (D2)  |
| I —                           | oosits (B5)                                | . (5-)            | Thin Muck             |            |                    |                   | FAC-Neu                    | itral Test (D5)   |
| ı —                           | on Visible on Aerial                       |                   | Gauge or \            |            | , ,                |                   |                            |   |
|                               | / Vegetated Concav                         | re Surface (B8    | Other (Exp            | lain in Re | emarks)            |                   |                            |   |
| Field Obser                   |  |                   | <b>v</b>              |            |                    |                   |                            |   |
| Surface Wat                   |  |                   | Depth (inc            |            |                    |                   |                            |   |
| Water Table                   |  |                   | Depth (in             |            |                    |                   |                            |   |
| Saturation P<br>(includes car | oillary fringe)                            |                   | Depth (in             |            |                    |                   |                            | sent? Yes No  |
| Describe Re                   | corded Data (strean                        | n gauge, moni     | toring well, aerial į | onotos, pi | revious ins        | spections),       | ır avallable:              |   |
| Remarks:                      |  |                   |                       |            |                    |                   |                            |   |
| Wetland                       | l hydrology                                | nracant           |                       |            |                    |                   |                            |   |
| VVELIANIC                     | i iiyai ology                              | hieseiil.         |                       |            |                    |                   |                            |   |
|                               |  |                   |                       |            |                    |                   |                            |   |

| Project/Site: AEP Fostoria to Lima                                | City/0            | County: Findlay/                  | Sampling Date: 2022-06-30                       |  |
|---|-------------------|-----------------------------------|---|--|
| Applicant/Owner: AEP  |                   |                                   | State: Ohio                                     | Sampling Point: 1-G                          |
| Investigator(s): Beth Hollinden, Chris Davisson                   | Sect              | ion, Township, Rar                | nge: OH01 T2N R11E                              | SN27   |
| Landform (hillslope, terrace, etc.): Depression Toeslope          | !                 | Local relief (                    | (concave, convex, none):                        | Concave                                      |
| Slope (%): 2 Lat: 41.104596                                       | Long              | -83.580468                        |   | Datum: WGS 84                                |
| Soil Map Unit Name: PmA   |                   |                                   | NWI classific                                   | ation: N/A                                   |
| Are climatic / hydrologic conditions on the site typical for this | time of year? `   | Yes No                            | (If no, explain in R                            | emarks.)                                     |
| Are Vegetation, Soil, or Hydrology sig                            | gnificantly distu | rbed? Are "I                      | Normal Circumstances" p                         | present? Yes No                              |
| Are Vegetation, Soil, or Hydrology na                             | turally problem   | atic? (If nee                     | eded, explain any answe                         | rs in Remarks.)                              |
| SUMMARY OF FINDINGS - Attach site map s                           | howing sar        | npling point lo                   | ocations, transects                             | , important features, etc.                   |
| Hydrophytic Vegetation Present? Yes No                            |                   |                                   | _   |  |
| Hydric Soil Present? Yes No                                       |                   | Is the Sampled                    |   | No   |
| Wetland Hydrology Present? Yes No Remarks:                        |                   | within a Wetlan                   | d? Yes  | No   |
|   | ( 40              |                                   |   |  |
| PEM. Escaping ditch line. ORAM sco                                | ore of 12.        |                                   |   |  |
| <b>VEGETATION</b> – Use scientific names of plants.               |                   |                                   |   |  |
| 00 ft   |                   | minant Indicator<br>ecies? Status | Dominance Test work                             |  |
| 1   |                   |                                   | Number of Dominant Sp<br>That Are OBL, FACW, of |  |
| 2   |                   |                                   | Total Number of Domin                           | ant  |
| 3   |                   |                                   | Species Across All Stra                         |  |
| 4   |                   |                                   | Percent of Dominant Sp                          |  |
| 5   | = To              | etal Cover                        | That Are OBL, FACW, o                           | or FAC: 100 (A/B)                            |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                   | ital Covel                        | Prevalence Index worl                           | ksheet:                                      |
| 1   |                   |                                   | Total % Cover of:                               |  |
| 2   |                   |                                   |   | x 1 = 100                                    |
| 3   |                   |                                   |   | x = 0<br>x = 0                               |
| 4   |                   |                                   |   | $x = \frac{1}{4} = \frac{1}{4}$              |
| 5   | = To              |                                   |   | x 5 = 0                                      |
| Herb Stratum (Plot size: 5 ft r )                                 |                   |                                   | Column Totals: 100                              | (A) 100 (B)                                  |
| 1. Typha angustifolia   | 100               | OBL                               | Dravalance Index                                | = B/A = <u>1.00</u>                          |
| 2   |                   |                                   | Hydrophytic Vegetation                          |  |
| 3   |                   |                                   | ✓ 1 - Rapid Test for H                          |  |
| 4   |                   | ————I                             | 2 - Dominance Tes                               |  |
| 5<br>6  |                   |                                   | ✓ 3 - Prevalence Inde                           |  |
| 7   |                   |                                   | 4 - Morphological A                             | Adaptations <sup>1</sup> (Provide supporting |
| 8.  |                   |                                   |   | s or on a separate sheet)                    |
| 9   |                   |                                   | Problematic Hydror                              | phytic Vegetation <sup>1</sup> (Explain)     |
| 10  |                   |                                   | <sup>1</sup> Indicators of hydric soi           | l and wetland hydrology must                 |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 100% = To         | tal Cover                         | be present, unless distu                        |  |
| 1   |                   |                                   | Hydrophytic                                     |  |
| 2   |                   |                                   | Vegetation Present? Yes                         | s No   |
| Remarks: (Include photo numbers here or on a separate sh          |                   | tal Cover                         |   |  |
|   | ieet.)            |                                   |   |  |
| Hydrophytic vegetation present.                                   |                   |                                   |   |  |
|   |                   |                                   |   |  |

SOIL Sampling Point: 1-G

| Profile Desc           | cription: (Describe              | to the dept    | h needed to docum       | nent the   | indicator                | or confirm        | n the absence of i        | ndicators.)   |
|------------------------|----------------------------------|----------------|-------------------------|------------|--------------------------|-------------------|---------------------------|---|
| Depth                  | Matrix                           |                |                         | x Feature  |                          |                   |                           | ,   |
| (inches)               | Color (moist)                    | %              | Color (moist)           | %          | _Type <sup>1</sup>       | _Loc <sup>2</sup> | Texture                   | Remarks   |
| 0 - 20                 | 10YR 4/1                         | 85             | 10YR 5/6                | 10         | <u>C</u>                 | <u>M</u>          | Silty Clay                |   |
| 0 - 20                 | 10YR 4/1                         | 85             | 10YR 6/3                | 5          | С                        | М                 | Silty Clay                |   |
|                        |                                  |                | •                       |            |                          |                   |                           |   |
|                        |                                  |                |                         |            |                          |                   |                           |   |
|                        |                                  |                |                         |            |                          |                   |                           |   |
| <u> </u>               |                                  |                |                         |            |                          |                   |                           |   |
|                        |                                  |                |                         |            |                          |                   |                           |   |
|                        |                                  |                |                         |            |                          |                   |                           |   |
| <sup>1</sup> Type: C=C | oncentration, D=Dep              | oletion, RM=   | Reduced Matrix, MS      | S=Maske    | d Sand Gr                | ains.             | <sup>2</sup> Location: PL | _=Pore Lining, M=Matrix.                                  |
| Hydric Soil            | Indicators:                      |                |                         |            |                          |                   | Indicators for            | Problematic Hydric Soils <sup>3</sup> :                   |
| Histosol               | (A1)                             |                |                         | -          | atrix (S4)               |                   | _                         | rie Redox (A16)   |
| I —                    | pipedon (A2)                     |                |                         | Redox (S   |                          |                   | Dark Surfa                | • •   |
| ı —                    | istic (A3)                       |                |                         | Matrix (   | ,                        |                   |                           | anese Masses (F12)  |
|                        | en Sulfide (A4)<br>d Layers (A5) |                |                         |            | neral (F1)<br>atrix (F2) |                   |                           | ow Dark Surface (TF12)<br>dain in Remarks)                |
|                        | uck (A10)                        |                | ✓ Deplete               |            |                          |                   | 01101 (EXP                | nam m Nomano,   |
| ı —                    | d Below Dark Surfac              | e (A11)        |                         | ark Surf   |                          |                   |                           |   |
| _                      | ark Surface (A12)                |                |                         |            | urface (F7               | )                 |                           | nydrophytic vegetation and                                |
| ı — ·                  | Mucky Mineral (S1)               |                | Redox [                 | Depression | ons (F8)                 |                   | ,                         | drology must be present,                                  |
|                        | ucky Peat or Peat (S             |                |                         |            |                          |                   | unless dist               | urbed or problematic.                                     |
|                        | Layer (if observed)              |                |                         |            |                          |                   |                           |   |
| " —                    | -1                               |                |                         |            |                          |                   | Hydric Soil Pre           | sent? Yes No  |
|                        | ches):                           |                |                         |            |                          |                   |                           |   |
| Remarks:               |                                  |                |                         |            |                          |                   |                           |   |
| Hydric                 | soil present.                    |                |                         |            |                          |                   |                           |   |
| -                      | •                                |                |                         |            |                          |                   |                           |   |
|                        |                                  |                |                         |            |                          |                   |                           |   |
| LIVERGLO               |                                  |                |                         |            |                          |                   |                           |   |
| HYDROLO                |                                  |                |                         |            |                          |                   |                           |   |
| 1                      | drology Indicators               |                |                         |            |                          |                   |                           |   |
|                        | cators (minimum of o             | one is require |                         |            |                          |                   |                           | ndicators (minimum of two required)                       |
| —                      | Water (A1)                       |                | Water-Stai              |            | , ,                      |                   |                           | Soil Cracks (B6)  |
| -                      | ater Table (A2)                  |                | Aquatic Fa              |            |                          |                   |                           | e Patterns (B10)  |
| Saturation Water M     |                                  |                | True Aqua               |            | . ,                      |                   |                           | son Water Table (C2)                                      |
| I —                    | larks (B1)                       |                | Hydrogen                |            |                          | ina Dooto         |                           | Burrows (C8)  |
|                        | nt Deposits (B2)<br>posits (B3)  |                | Oxidized F              | -          |                          | -                 |                           | on Visible on Aerial Imagery (C9) or Stressed Plants (D1) |
|                        | at or Crust (B4)                 |                | Recent Iro              |            |                          | •                 | _                         | phic Position (D2)  |
| -                      | posits (B5)                      |                | Thin Muck               |            |                          | u 00113 (01       |                           | utral Test (D5)   |
| :                      | on Visible on Aerial             | Imagery (B7    |                         |            |                          |                   |                           | u.u. 1 001 (2 0)  |
| ı —                    | y Vegetated Concav               |                |                         |            |                          |                   |                           |   |
| Field Obser            | vations:                         | `              | <del>, _ , , ,</del>    |            |                          |                   |                           |   |
| Surface Wat            | er Present?                      | 'es N          | lo Depth (inc           | ches):     |                          | _                 |                           |   |
| Water Table            |                                  |                | lo Depth (inc           |            |                          |                   |                           |   |
| Saturation P           |                                  |                | lo Depth (inc           |            |                          |                   | and Hydrology Pr          | esent? Yes No   |
| (includes ca           |                                  |                |                         |            |                          |                   |                           |   |
| Describe Re            | corded Data (strean              | ı gauge, moı   | nitoring well, aerial p | onotos, p  | revious ins              | spections),       | ır avallable:             |   |
|                        |                                  |                |                         |            |                          |                   |                           |   |
| Remarks:               |                                  |                |                         |            |                          |                   |                           |   |
| Wetland                | hydrology                        | present        | •                       |            |                          |                   |                           |   |
|                        | ,                                |                |                         |            |                          |                   |                           |   |
|                        |                                  |                |                         |            |                          |                   |                           |   |

| Project/Site: AEP Fostoria to Lima                              | (              | City/Co | ounty: | Findlay/    | /Hancock Sampling Date: 2022-06-30   |
|---|----------------|---------|--------|-------------|--|
| Applicant/Owner: AEP  |                |         |        |             | State: Ohio Sampling Point: 1-G/H UPL  |
| Investigator(s): Beth Hollinden, Chris Davisson                 | :              | Section | n, Tov | wnship, Rar | nge: OH01 T2N R11E SN27  |
|   |                |         |        |             | (concave, convex, none): None  |
| Slope (%): 0 Lat: 41.104081                                     |                | Long: _ | -83.   | 580339      | Datum: WGS 84  |
| Soil Map Unit Name: BpA   |                |         |        |             | NWI classification: N/A  |
| Are climatic / hydrologic conditions on the site typical for th | is time of yea | ar? Ye  | es     | No _        | (If no, explain in Remarks.)   |
| Are Vegetation, Soil, or Hydrology                              | significantly  | disturb | ed?    | Are "       | Normal Circumstances" present? Yes No  |
| Are Vegetation, Soil, or Hydrology                              | naturally pro  | blemat  | tic?   | (If ne      | eeded, explain any answers in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map                           | showing        | sam     | pling  | g point k   | ocations, transects, important features, etc.  |
| Hydrophytic Vegetation Present? Yes N                           | No             |         |        |             |  |
| Hydric Soil Present? Yes N                                      |                |         |        | e Sampled   |  |
| Wetland Hydrology Present? Yes 1                                | No             |         | withi  | in a Wetlan | nd? Yes No   |
| Remarks:  |                |         |        |             |  |
| Upland point for Wetland 1-G and \                              | Wetland        | l 1-⊦   | ┨.     |             |  |
| VEGETATION – Use scientific names of plants                     |                |         |        |             |  |
| VEGETATION – Ose scientific flames of plants                    | Absolute       | Domi    | inant  | Indicator   | Dominance Test worksheet:  |
| Tree Stratum (Plot size: 30 ft r )                              | % Cover        |         |        |             | Number of Dominant Species   |
| 1   |                |         |        |             | That Are OBL, FACW, or FAC: 0 (A)  |
| 2   |                |         |        |             | Total Number of Dominant   |
| 3   |                |         |        |             | Species Across All Strata: 2 (B)   |
| 4   |                |         |        |             | Percent of Dominant Species  |
| 5   |                |         |        |             | That Are OBL, FACW, or FAC: 0 (A/B)  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                     |                | = Tota  | ii Cov | er          | Prevalence Index worksheet:  |
| 1. Elaeagnus umbellata  | _ 10           |         |        |             | Total % Cover of: Multiply by:   |
| 2   |                |         |        |             | OBL species 0 x 1 = 0  |
| 3   |                |         |        |             | FACW species $0 \times 2 = 0$  |
| 4   |                |         |        |             | FAC species $0 \times 3 = 0$   |
| 5   |                |         |        |             | FACU species 90  |
| Herb Stratum (Plot size: 5 ft r )                               | 10%            | = Tota  | l Cov  | er          |  |
| 1. Cirsium arvense  | 50             |         |        | FACU        | Column Totals: 90 (A) 360 (B)  |
| 2. Festuca rubra  | 30             |         | _      | FACU        | Prevalence Index = B/A = 4.00  |
| 3. Cornus florida   | _ 10           |         |        | FACU        | Hydrophytic Vegetation Indicators:   |
| 4. Pyrus calleryana   | _ 10           |         |        |             | 1 - Rapid Test for Hydrophytic Vegetation  |
| 5   |                |         |        |             | 2 - Dominance Test is >50%   |
| 6   |                |         |        |             | 3 - Prevalence Index is ≤3.01  |
| 7   |                |         |        |             | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) |
| 8   |                |         |        |             | Problematic Hydrophytic Vegetation¹ (Explain)  |
| 9   |                |         |        |             |  |
| 10  | 100%           | = Tota  | I Cov  |             | <sup>1</sup> Indicators of hydric soil and wetland hydrology must                                      |
| Woody Vine Stratum (Plot size: 30 ft r )                        |                | 1010    | 001    | 0.          | be present, unless disturbed or problematic.   |
| 1   |                |         |        |             | Hydrophytic  |
| 2   |                |         |        |             | Vegetation   Present?   Yes No   |
| Demontos (Include photo positivo hara hara a                    |                | = Tota  | l Cov  | er          | 100  |
| Remarks: (Include photo numbers here or on a separate           | sneet.)        |         |        |             |  |
| Hydrophytic vegetation absent.                                  |                |         |        |             |  |
|   |                |         |        |             |  |

SOIL Sampling Point: 1-G/H UPL

| Profile Desc   | ription: (Describe                         | to the dep   | th needed to docur     | ment the                  | indicator          | or confire        | n the absence of ir | ndicators.)                                       |
|----------------|--|--------------|------------------------|---------------------------|--------------------|-------------------|---------------------|---|
| Depth          | Matrix                                     |              |                        | x Feature                 |                    |                   |                     | •   |
| (inches)       | Color (moist)                              | %            | Color (moist)          | %                         | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture             | Remarks   |
| 0-6            | 10YR 6/3                                   | 100_         |                        |                           |                    |                   | Silty Clay          |   |
| 6-20           | 10YR 4/1                                   | 95           | 10YR 6/3               | 5                         | С                  | М                 | Silty Clay          |   |
|                |  |              |                        |                           |                    |                   |                     |   |
|                |  |              |                        |                           |                    |                   |                     |   |
|                |  |              |                        |                           |                    |                   |                     |   |
| <u> </u>       |  |              |                        |                           |                    |                   |                     |   |
| <u> </u>       |  |              |                        |                           |                    |                   |                     |   |
|                |  |              |                        |                           |                    |                   |                     |   |
|                |  | oletion, RM  | Reduced Matrix, M      | S=Maske                   | d Sand Gr          | ains.             |                     | =Pore Lining, M=Matrix.                           |
| Hydric Soil    |  |              |                        |                           |                    |                   |                     | Problematic Hydric Soils <sup>3</sup> :           |
| Histosol       | . ,  |              |                        | Gleyed Ma                 |                    |                   |                     | rie Redox (A16)                                   |
| I —            | oipedon (A2)<br>stic (A3)                  |              |                        | Redox (St<br>d Matrix (\$ |                    |                   | Dark Surfa          | ce (S7)<br>anese Masses (F12)                     |
| ı —            | en Sulfide (A4)                            |              |                        |                           | neral (F1)         |                   | _                   | ow Dark Surface (TF12)                            |
|                | d Layers (A5)                              |              |                        | Gleyed M                  |                    |                   |                     | lain in Remarks)                                  |
| 2 cm Mu        | ıck (A10)                                  |              | Deplete                | d Matrix (                | (F3)               |                   |                     |   |
| ı —            | d Below Dark Surfac                        | e (A11)      | _                      | Dark Surfa                | , ,                |                   | 2                   |   |
| _              | ark Surface (A12)                          |              |                        |                           | urface (F7)        | )                 |                     | ydrophytic vegetation and                         |
| ı — ·          | lucky Mineral (S1)<br>icky Peat or Peat (S | 3)           | Redox i                | Depression                | ons (F8)           |                   | •                   | drology must be present,<br>urbed or problematic. |
|                | Layer (if observed)                        |              |                        |                           |                    |                   | arriodo diot        | arboa or problematio.                             |
|                | ,  |              |                        |                           |                    |                   |                     |   |
| " —            | ches):                                     |              |                        |                           |                    |                   | Hydric Soil Pres    | sent? Yes No                                      |
| Remarks:       |  |              |                        |                           |                    |                   |                     |   |
| l liveduie .   | !!   |              |                        |                           |                    |                   |                     |   |
| Hydric         | soil present.                              |              |                        |                           |                    |                   |                     |   |
|                |  |              |                        |                           |                    |                   |                     |   |
|                |  |              |                        |                           |                    |                   |                     |   |
| <b>HYDROLO</b> | GY   |              |                        |                           |                    |                   |                     |   |
| Wetland Hy     | drology Indicators                         | :            |                        |                           |                    |                   |                     |   |
| Primary India  | cators (minimum of                         | one is requi | red; check all that ap | oply)                     |                    |                   | Secondary In        | ndicators (minimum of two required)               |
| Surface        | Water (A1)                                 |              | Water-Sta              | ined Leav                 | res (B9)           |                   | Surface             | Soil Cracks (B6)                                  |
| High Wa        | ater Table (A2)                            |              | Aquatic Fa             | auna (B13                 | 3)                 |                   | Drainage            | e Patterns (B10)                                  |
| Saturation     | on (A3)                                    |              | True Aqua              | atic Plants               | (B14)              |                   | Dry-Sea             | son Water Table (C2)                              |
| Water M        | larks (B1)                                 |              | Hydrogen               | Sulfide O                 | dor (C1)           |                   | Crayfish            | Burrows (C8)                                      |
|                | nt Deposits (B2)                           |              | Oxidized F             |                           |                    | -                 | (C3) Saturation     | on Visible on Aerial Imagery (C9)                 |
| l —            | posits (B3)                                |              | Presence               |                           | ,                  | ,                 |                     | or Stressed Plants (D1)                           |
|                | at or Crust (B4)                           |              | Recent Iro             |                           |                    | d Soils (C        | <i>'</i> —          | phic Position (D2)                                |
| I — :          | oosits (B5)                                | Imagen, (D   | Thin Muck              |                           | , ,                |                   | FAC-Nei             | utral Test (D5)                                   |
| ı —            | on Visible on Aerial<br>/ Vegetated Concav |              | . —                    |                           |                    |                   |                     |   |
| Field Obser    |  | e ourrace (  | Other (LX)             | Jiaiii III IX             | ziliaiks)          |                   |                     |   |
| Surface Wat    |  | /ec          | No Depth (in           | ches).                    |                    |                   |                     |   |
| Water Table    |  |              | No Depth (in           |                           |                    |                   |                     |   |
| Saturation P   |  |              | No Depth (in           |                           |                    |                   | land Hydrology Pre  | esent? Yes No                                     |
| (includes cap  |  | cs           | NO Deptil (iii         | Ci les)                   |                    | _   ••••          | iand rigurology Fre | esent: Tes No                                     |
| Describe Re    | corded Data (stream                        | n gauge, mo  | onitoring well, aerial | photos, p                 | revious ins        | pections),        | if available:       |   |
|                |  |              |                        |                           |                    |                   |                     |   |
| Remarks:       |  |              |                        |                           |                    |                   |                     |   |
| Wetland        | l hydrology i                              | absent       | •                      |                           |                    |                   |                     |   |
|                |  |              |                        |                           |                    |                   |                     |   |
|                |  |              |                        |                           |                    |                   |                     |   |

| Project/Site: AEP Fostoria to Lima                    |                      | City/Co        | ounty: Findlay  | /Hancock  | Sampling Date: 2022-06-  | 30  |
|---|----------------------|----------------|-----------------|---|--|-----|
| Applicant/Owner: AEP                                  |                      |                |                 | State: Ohio                                     | Sampling Point: 1-H  |     |
| Investigator(s): Beth Hollinden, Chris Da             | visson               | Sectio         | n, Township, Ra | nge: OH01 T2N R11E                              | SN27   |     |
| Landform (hillslope, terrace, etc.): Depression       | n Toeslope           |                | Local relief    | (concave, convex, none):                        | Concave  |     |
| Slope (%): 2 Lat: 41.103935                           |                      | Long:          | -83.58047       |   | Datum: WGS 84  |     |
| Soil Map Unit Name: BpA                               |                      |                |                 | NWI classific                                   | ation: N/A   |     |
| Are climatic / hydrologic conditions on the site      | ypical for this time | of year? Ye    | es No _         | (If no, explain in R                            | emarks.)   |     |
| Are Vegetation, Soil, or Hydrold                      | gy signific          | cantly disturb | ped? Are        | "Normal Circumstances" p                        | present? Yes No  |     |
| Are Vegetation, Soil, or Hydrold                      | ogy natura           | lly problema   | tic? (If ne     | eeded, explain any answe                        | rs in Remarks.)  |     |
| SUMMARY OF FINDINGS - Attach                          | site map show        | wing sam       | pling point l   | ocations, transects                             | , important features, ef   | tc. |
| Hydrophytic Vegetation Present? Yes                   | No                   |                |                 |   |  |     |
| Hydric Soil Present? Yes                              | No                   |                | Is the Sampled  |   | •  |     |
|   | No                   |                | within a Wetlar | nd? Yes   | No   |     |
| Remarks:  | _                    |                |                 |   |  |     |
| PEM. Located next to subst                            | ation grour          | nding sy       | stem. OR        | AM score of 12                                  | •  |     |
| VEGETATION – Use scientific names                     | of plants            |                |                 |   |  |     |
| - OSC SCICILITIES HATTER                              |                      | olute Dom      | inant Indicator | Dominance Test work                             | sheet:   |     |
| Tree Stratum (Plot size: 30 ft r                      |                      |                | cies? Status    | Number of Dominant S                            |  |     |
| 1   |                      |                |                 | That Are OBL, FACW,                             | or FAC: 1 (A)  |     |
| 2   |                      |                |                 | Total Number of Domin                           | 4  |     |
| 3<br>4  |                      |                |                 | Species Across All Stra                         | ata: <u>1</u> (B)  |     |
| 5   |                      |                |                 | Percent of Dominant Sp<br>That Are OBL, FACW, 6 |  | 8)  |
|   |                      | = Tota         | al Cover        |   | (**-   |     |
| Sapling/Shrub Stratum (Plot size: 15 ft r             |                      |                |                 | Prevalence Index wor                            |  |     |
| 1   |                      |                |                 | Total % Cover of:  OBL species 100              | $\frac{\text{Multiply by:}}{\text{x 1 = } 100}$                          |     |
| 2   |                      |                |                 |   | x 2 = 0  |     |
| 4   |                      |                |                 |   | x 3 = 0  |     |
| 5   |                      |                |                 | FACU species 0                                  | x 4 = 0  |     |
| F. 64 -   | _                    | = Tota         | al Cover        | UPL species 0                                   | x 5 = 0  |     |
| Herb Stratum (Plot size: 5 ft r 1. Typha angustifolia | 100                  | 0 .            | ✓ OBL           | Column Totals: 100                              | (A) <u>100</u> (B)   | )   |
| 2   |                      |                |                 | Prevalence Index                                | = B/A = 1.00   |     |
| 3   |                      |                |                 | Hydrophytic Vegetation                          |  | _   |
| 4.  |                      |                |                 | ✓ 1 - Rapid Test for H                          | Hydrophytic Vegetation   |     |
| 5.  |                      |                |                 | ✓ 2 - Dominance Tes                             | st is >50%   |     |
| 6   |                      |                |                 | ✓ 3 - Prevalence Inde                           |  |     |
| 7   |                      |                |                 | 4 - Morphological A                             | Adaptations <sup>1</sup> (Provide supportir<br>s or on a separate sheet) | ng  |
| 8   |                      |                |                 |   | phytic Vegetation <sup>1</sup> (Explain)                                 |     |
| 9   |                      |                |                 |   |  |     |
| 10  |                      | 0%_ = Tota     | ol Cover        | <sup>1</sup> Indicators of hydric soi           | il and wetland hydrology must  |     |
| Woody Vine Stratum (Plot size: 30 ft r                | )                    | _ 1018         | al Covei        | be present, unless distu                        | urbed or problematic.  |     |
| 1   |                      |                |                 | Hydrophytic                                     |  |     |
| 2   |                      |                |                 | Vegetation Present? Yes                         | s No   |     |
| Remarks: (Include photo numbers here or or            |                      | = Tota         | al Cover        |   |  |     |
| , ,   |                      | .,             |                 |   |  |     |
| Hydrophytic vegetation pre                            | sent.                |                |                 |   |  |     |

SOIL Sampling Point: 1-H

| Profile Desc  | ription: (Describe                         | to the dep  | th needed to docu      | nent the   | indicator           | or confin         | n the absence of indic | ators.)                                       |
|---------------|--|-------------|------------------------|------------|---------------------|-------------------|------------------------|---|
| Depth         | Matrix                                     |             | Redo                   | x Feature  | es                  |                   |                        |   |
| (inches)      | Color (moist)                              | %           | Color (moist)          | %          | Type <sup>1</sup> _ | _Loc <sup>2</sup> | Texture                | Remarks                                       |
| 0 - 20        | 10YR 4/1                                   | 65          | 10YR 5/6               |            | _ <u>C</u>          | <u>M</u>          | Silty Clay             |   |
| 0-20          | 10YR 4/1                                   | <u>65</u>   | 10YR 6/3               | 5          | <u> </u>            | <u>M</u>          | Silty Clay             |   |
| 0-20          | 10YR 4/1                                   | 65          | 10YR 6/1               | 10         | <u>D</u>            | M                 | Silty Clay             |   |
| -             |  |             |                        |            |                     |                   |                        |   |
|               |  |             |                        |            |                     |                   |                        |   |
|               |  |             |                        |            |                     |                   |                        |   |
|               |  |             |                        |            |                     |                   |                        |   |
| 1- 0.0        |  |             |                        |            |                     |                   | 21                     |   |
| Hydric Soil   | oncentration, D=Dep                        | etion, RM   | Reduced Matrix, M      | S=Maske    | d Sand Gr           | ains.             |                        | re Lining, M=Matrix.  Dlematic Hydric Soils³: |
| Histosol      |  |             | Sandy                  | Cleved M   | atrix (S4)          |                   | Coast Prairie R        | -   |
| ı —           | oipedon (A2)                               |             |                        | Redox (S   |                     |                   | Dark Surface (\$       | , ,   |
| ı —           | stic (A3)                                  |             |                        | d Matrix ( |                     |                   |                        | e Masses (F12)                                |
| ı —           | en Sulfide (A4)                            |             |                        |            | ineral (F1)         |                   |                        | ark Surface (TF12)                            |
| _             | d Layers (A5)                              |             | Loamy                  | Gleyed N   | latrix (F2)         |                   | Other (Explain         | in Remarks)                                   |
|               | ıck (A10)                                  |             |                        | d Matrix   |                     |                   |                        |   |
| ı — ·         | d Below Dark Surfac                        | e (A11)     | _                      | Dark Surf  | . ,                 |                   | 3                      |   |
| I —           | ark Surface (A12)                          |             |                        |            | urface (F7          | )                 |                        | phytic vegetation and                         |
|               | lucky Mineral (S1)<br>icky Peat or Peat (S | 21          | Redox                  | Depression | ons (F8)            |                   | _                      | gy must be present,<br>d or problematic.      |
|               | Layer (if observed)                        |             |                        |            |                     |                   | unless disturbe        | d of problematic.                             |
|               |  |             |                        |            |                     |                   |                        |   |
|               | ches):                                     |             |                        |            |                     |                   | Hydric Soil Present    | ? Yes No                                      |
| Remarks:      |  |             |                        |            |                     |                   |                        |   |
| Hydric        | soil present.                              |             |                        |            |                     |                   |                        |   |
| HYDROLO       | GY   |             |                        |            |                     |                   |                        |   |
|               | drology Indicators:                        |             |                        |            |                     |                   |                        |   |
| 1             | cators (minimum of                         |             | red: check all that ar | (vlac      |                     |                   | Secondary Indica       | ators (minimum of two required)               |
|               | Water (A1)                                 |             | Water-Sta              |            | ves (R9)            |                   | Surface Soil           |   |
|               | ater Table (A2)                            |             | Aquatic Fa             |            | ` '                 |                   | Drainage Pa            |   |
| Saturation    | , ,  |             | True Aqua              | •          | ,                   |                   |                        | Water Table (C2)                              |
| Water M       | ,  |             | Hydrogen               |            |                     |                   | Crayfish Bur           |   |
|               | nt Deposits (B2)                           |             | Oxidized I             |            |                     | ing Roots         |                        | isible on Aerial Imagery (C9)                 |
| ı —           | posits (B3)                                |             | Presence               |            |                     | -                 | · / —                  | tressed Plants (D1)                           |
| I — ·         | at or Crust (B4)                           |             | Recent Iro             |            | ,                   | ,                 |                        | • •   |
| 1 – ,         | oosits (B5)                                |             | Thin Muck              |            |                     | `                 | ✓ FAC-Neutral          |   |
| I — ·         | on Visible on Aerial                       | lmagery (B  | 7) Gauge or            | Well Data  | a (D9)              |                   | _                      | , ,   |
| Sparsely      | Vegetated Concav                           | e Surface ( |                        |            |                     |                   |                        |   |
| Field Obser   | vations:                                   |             |                        |            |                     |                   |                        |   |
| Surface Wat   | er Present?                                | 'es         | No Depth (in           | ches):     |                     | _                 |                        |   |
| Water Table   |  |             | No Depth (in           |            |                     |                   |                        |   |
| Saturation P  | resent? Y                                  | 'es         | No Depth (in           | ches):     |                     | Wet               | land Hydrology Preser  | nt? Yes No                                    |
| (includes cap | oillary fringe)                            |             |                        |            |                     |                   | if available:          |   |
| Describe Re   | corded Data (stream                        | i gauge, mo | onitoring well, aerial | priotos, p | revious ins         | spections)        | , ii avallable:        |   |
| Remarks:      |  |             |                        |            |                     |                   |                        |   |
|               |  |             |                        |            |                     |                   |                        |   |
| Wetland       | l hydrology <sub>l</sub>                   | oresen      | t.                     |            |                     |                   |                        |   |
|               |  |             |                        |            |                     |                   |                        |   |
|               |  |             |                        |            |                     |                   |                        |   |

| Project/Site: AEP Fostoria to Lima                                    | City/0          | County:           | Date: <u>20</u> | 22-06-30                                       |                        |                  |             |            |
|---|-----------------|-------------------|-----------------|--|------------------------|------------------|-------------|------------|
| Applicant/Owner: AEP  |                 | State: O          | hio             | Sampling                                       | Point: 1-I             |                  |             |            |
| Investigator(s): Beth Hollinden, Chris Davisson                       | Sect            | ion, Tov          | vnship, Ran     | nge: <u>OH01 T2</u>                            | N R11E S               | SN27             |             |            |
| Landform (hillslope, terrace, etc.): Depression Toeslope              |                 | L                 | ocal relief (   | concave, conve                                 | ex, none):             | Concav           | e           |            |
| Slope (%): 2 Lat: 41.104087   | Long            | <sub>J:</sub> 83. | 581876          |  |                        | Datum: <u>N</u>  | /GS 84      |            |
| Soil Map Unit Name: BrA   |                 |                   |                 | NW   | I classifica           | ation: N/A       | ١           |            |
| Are climatic / hydrologic conditions on the site typical for this tin |                 |                   |                 |  |                        |                  |             |            |
| Are Vegetation, Soil, or Hydrology sign                               | ificantly distu | ırbed?            | Are "I          | Normal Circums                                 | stances" pr            | esent? Y         | es          | _ No       |
| Are Vegetation, Soil, or Hydrology natu                               |                 |                   |                 | eded, explain a                                |                        |                  |             |            |
| SUMMARY OF FINDINGS - Attach site map she                             | owing sar       | mpling            | point lo        | ocations, tra                                  | nsects,                | importa          | ant feat    | ures, etc. |
| Hydrophytic Vegetation Present? Yes No _                              |                 |                   |                 |  |                        |                  |             |            |
| Hydric Soil Present? Yes No _   |                 |                   | Sampled         |  | /                      |                  |             |            |
| Wetland Hydrology Present? Yes No _                                   |                 | withi             | n a Wetlan      | d? \   | res                    | No_              |             |            |
| Remarks:  |                 |                   |                 |  |                        |                  |             |            |
| PEM. Located next to substation grou                                  | anding s        | syste             | m. OR           | AM score                                       | of 14.                 |                  |             |            |
| VEGETATION – Use scientific names of plants.                          |                 |                   |                 |  |                        |                  |             |            |
| A A   |                 |                   | Indicator       | Dominance T                                    | est works              | heet:            |             |            |
| <u>Tree Stratum</u> (Plot size: <u>30 ft r</u> ) <u>%</u>             | 6 Cover Spe     |                   | Status          | Number of Do<br>That Are OBL                   |                        | ecies<br>r FAC:  | 2           | (A)        |
| 2   |                 |                   |                 | Total Number                                   |                        |                  | ,           |            |
| 3   |                 |                   |                 | Species Acros                                  | s All Strat            | a: <u>4</u>      | 2           | (B)        |
| 5   |                 |                   |                 | Percent of Do<br>That Are OBL                  |                        |                  | 100         | (A/B)      |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                           | = To            | otal Cove         | er l            | Prevalence In                                  | ndex work              | sheet:           |             |            |
| 1   |                 |                   |                 | Total % C                                      |                        |                  | Multiply b  | y:         |
| 2   |                 |                   |                 | OBL species                                    |                        | x 1              |             |            |
| 3   |                 |                   |                 | FACW species                                   |                        |                  |             |            |
| 4   |                 |                   |                 | FAC species                                    |                        | x 3              |             |            |
| 5   |                 |                   |                 | FACU species                                   |                        | × 4              |             |            |
| Herb Stratum (Plot size: 5 ft r )                                     | = To            | otal Cove         | er              | UPL species Column Totals                      |                        | x 5              |             | (B)        |
| 1. Schoenoplectus tabernaemontani 5                                   | 50              | <u> </u>          | OBL             |  |                        |                  |             | (b)        |
| 2. Typha angustifolia 5   | 50              | <u> </u>          | OBL             |  |                        | = B/A = <u>1</u> |             |            |
| 3   |                 |                   |                 | Hydrophytic                                    | •                      |                  |             |            |
| 4   |                 |                   |                 | 1 - Rapid                                      |                        |                  | Vegetatio   | on         |
| 5   |                 |                   |                 | 2 - Domin                                      |                        |                  |             |            |
| 6   |                 |                   |                 | <ul><li>3 - Preval</li><li>4 - Morph</li></ul> |                        |                  | 1 (Descride |            |
| 7   |                 |                   |                 | 4 - Morph<br>data in                           | ological Ad<br>Remarks | or on a se       | parate sh   | eet)       |
| 8   |                 |                   |                 | Problema                                       | tic Hydrop             | hytic Vege       | etation¹ (E | xplain)    |
| 10  |                 |                   |                 |  |                        |                  |             |            |
| Woody Vine Stratum (Plot size: 30 ft r                                | 100% = To       | otal Cove         | er              | <sup>1</sup> Indicators of l<br>be present, ur |                        |                  |             |            |
| 1   |                 |                   |                 | Hydrophytic                                    |                        |                  |             |            |
| 2   |                 | otal Cove         | <br>er          | Vegetation<br>Present?                         | Yes                    |                  | No          | _          |
| Remarks: (Include photo numbers here or on a separate she             | et.)            |                   |                 |  |                        |                  |             |            |
| Hydrophytic vegetation present.                                       |                 |                   |                 |  |                        |                  |             |            |
|   |                 |                   |                 |  |                        |                  |             |            |

SOIL Sampling Point: 1-I

| Profile Desc           | cription: (Describe                    | to the dept    | th needed to docur    | nent the               | indicator           | or confirm        | m the absence of indicators.)   |
|------------------------|--|----------------|-----------------------|------------------------|---------------------|-------------------|---|
| Depth                  | Matrix                                 |                | Redo                  | x Feature              |                     |                   |   |
| (inches)               | Color (moist)                          | %              | Color (moist)         | %                      | Type <sup>1</sup> _ | _Loc <sup>2</sup> |   |
| 0-4                    | 10YR 4/1                               | 95             | 10YR 5/6              | . <u>5</u>             | _ <u>C</u>          | <u>M</u>          | Silty Clay  |
| 4-20                   | 10YR 4/1                               | _ <u>55</u>    | 10YR 6/1              | 5                      | <u>D</u>            | <u>M</u>          | Silty Clay  |
| 4 - 20                 | 10YR 4/1                               | _ <u>55</u>    | 10YR 5/6              | <u>M</u>               | Silty Clay          |                   |   |
|                        |  |                |                       |                        |                     |                   |   |
| -                      |  |                |                       |                        |                     |                   |   |
|                        |  |                |                       |                        |                     |                   |   |
|                        |  |                |                       |                        |                     |                   |   |
| <sup>1</sup> Type: C=C | oncentration D=De                      | nletion RM=    | Reduced Matrix, M     | S=Maske                | d Sand Gr           | ains              | <sup>2</sup> Location: PL=Pore Lining, M=Matrix.  |
| Hydric Soil            |  | piotion, raw   | Troduced Matrix, III  | o maone                | a cana ci           | anio.             | Indicators for Problematic Hydric Soils <sup>3</sup> :                                      |
| Histosol               | (A1)                                   |                | Sandy (               | Gleyed M               | atrix (S4)          |                   | Coast Prairie Redox (A16)   |
| Histic E               | oipedon (A2)                           |                |                       | Redox (S               |                     |                   | Dark Surface (S7)   |
| Black Hi               | istic (A3)                             |                | Stripped              | d Matrix (             | S6)                 |                   | Iron-Manganese Masses (F12)   |
| Hydroge                | en Sulfide (A4)                        |                | Loamy                 | Mucky Mi               | ineral (F1)         |                   | Very Shallow Dark Surface (TF12)  |
|                        | d Layers (A5)                          |                |                       |                        | latrix (F2)         |                   | Other (Explain in Remarks)  |
| ı —                    | ıck (A10)                              | (8.4.4)        |                       | d Matrix (             | . ,                 |                   |   |
| ı — ·                  | d Below Dark Surfac                    | ce (A11)       | _                     | Dark Surf              | , ,                 |                   | 31. disease of leaders but is a seast time and  |
| _                      | ark Surface (A12)  Mucky Mineral (S1)  |                |                       | o Dark Si<br>Depressio | urface (F7          | )                 | <sup>3</sup> Indicators of hydrophytic vegetation and<br>wetland hydrology must be present, |
| 1 – ′                  | ucky Peat or Peat (S                   | (3)            | Redux I               | Dehlessic              | nis (Fo)            |                   | unless disturbed or problematic.  |
|                        | Layer (if observed)                    |                |                       |                        |                     |                   | anneed distanced of problematic.  |
| _                      |  |                |                       |                        |                     |                   |   |
|                        | ches):                                 |                |                       |                        |                     |                   | Hydric Soil Present? Yes No   |
| Remarks:               |  |                |                       |                        |                     |                   |   |
| Hydric                 | soil present.                          |                |                       |                        |                     |                   |   |
| HYDROLO                | GY                                     |                |                       |                        |                     |                   |   |
| Wetland Hy             | drology Indicators                     | :              |                       |                        |                     |                   |   |
| Primary India          | cators (minimum of                     | one is requir  | ed; check all that ap | ply)                   |                     |                   | Secondary Indicators (minimum of two required)  |
| Surface                | Water (A1)                             |                | Water-Sta             | ined Leav              | ves (B9)            |                   | Surface Soil Cracks (B6)  |
| _                      | ater Table (A2)                        |                | Aquatic Fa            |                        | , ,                 |                   | ✓ Drainage Patterns (B10)   |
| Saturation             |  |                | True Aqua             |                        |                     |                   | Dry-Season Water Table (C2)   |
| Water M                | larks (B1)                             |                | Hydrogen              |                        |                     |                   | Crayfish Burrows (C8)   |
| Sedimer                | nt Deposits (B2)                       |                | Oxidized F            |                        |                     | ing Roots         |   |
|                        | posits (B3)                            |                | Presence              | of Reduc               | ed Iron (C          | 4)                | Stunted or Stressed Plants (D1)   |
| 1                      | at or Crust (B4)                       |                | Recent Iro            | n Reduct               | ion in Tille        | d Soils (C        |   |
| Iron Dep               | posits (B5)                            |                | Thin Muck             | Surface                | (C7)                |                   | ✓ FAC-Neutral Test (D5)   |
| Inundati               | on Visible on Aerial                   | Imagery (B7    |                       |                        |                     |                   |   |
| Sparsely               | y Vegetated Concav                     | e Surface (E   | 38) Other (Exp        | olain in R             | emarks)             |                   |   |
| Field Obser            | vations:                               |                |                       |                        |                     |                   |   |
| Surface Wat            | er Present?                            | Yes N          | No Depth (in          | ches):                 |                     | _                 |   |
| Water Table            | Present?                               | Yes N          | No Depth (in          | ches):                 |                     | _                 |   |
| Saturation P           | resent?                                | Yes N          | No Depth (in          | ches):                 |                     | Wetl              | land Hydrology Present? Yes No  |
|                        | oillary fringe)<br>corded Data (strean | n dalide mo    | nitoring well, aerial | nhotos n               | revious ins         | nections)         | if available:   |
| Describe Ne            | corded Data (Stream                    | ii gauge, iiio | mitoring well, acrial | priotos, p             | revious inc         | pections),        | , il available.   |
| Remarks:               |  |                |                       |                        |                     |                   |   |
| Wetland                | l hydrology                            | present        | t.                    |                        |                     |                   |   |
|                        | <del>,</del>                           | p. 00011       | <del></del>           |                        |                     |                   |   |
|                        |  |                |                       |                        |                     |                   |   |

| Project/Site: AEP Fostoria to Lima                                  | 0            | City/County: Findlay/Hancock Sampling Date: 202 |                 |  |  |  |  |  |
|---|--------------|---|-----------------|--|--|--|--|--|
| Applicant/Owner: AEP  |              |   |                 | State: Ohio  | Sampling Point: 1-I UPL  |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                     | 8            | Section,  | Township, Rai   | nge: OH01 T2N R11E   | SN27   |  |  |  |
| Landform (hillslope, terrace, etc.): Hillslope                      |              |   | _ Local relief  | (concave, convex, none):   | Convex   |  |  |  |
| Slope (%): 2 Lat: 41.104089   | ۱            | Long: -83.581918 Datum: WGS 84                  |                 |  |  |  |  |  |
| Soil Map Unit Name: BrA   |              |   |                 | NWI classific  | ation: N/A   |  |  |  |
| Are climatic / hydrologic conditions on the site typical for this t | ime of yea   | r? Yes  | No              | (If no, explain in R   | emarks.)   |  |  |  |
| Are Vegetation, Soil, or Hydrology sig                              | nificantly d | listurbe  | d? Are "        | 'Normal Circumstances" p   | present? Yes No  |  |  |  |
| Are Vegetation, Soil, or Hydrology nat                              | turally prob | olematic  | ? (If ne        | eeded, explain any answe   | rs in Remarks.)  |  |  |  |
| SUMMARY OF FINDINGS - Attach site map sl                            | howing       | samp  | ling point le   | ocations, transects  | , important features, etc.   |  |  |  |
| Hydrophytic Vegetation Present? Yes No                              | <u> </u>     |   |                 |  |  |  |  |  |
| Hydric Soil Present? Yes No   |              |   | s the Sampled   |  |  |  |  |  |
| Wetland Hydrology Present? Yes No                                   |              | \ \   | vithin a Wetlar | 1d? Yes  | No   |  |  |  |
| Remarks:  |              |   |                 |  |  |  |  |  |
| Upland point for Wetland 1-I.                                       |              |   |                 |  |  |  |  |  |
| VEGETATION – Use scientific names of plants.                        |              |   |                 |  |  |  |  |  |
|   |              |   | ant Indicator   | Dominance Test work  | sheet:   |  |  |  |
| Tree Stratum (Plot size: 30 ft r )                                  |              |   | es? Status      | Number of Dominant Sp<br>That Are OBL, FACW, of                    | •  |  |  |  |
| 2   |              |   |                 |  | (//  |  |  |  |
| 3   |              |   |                 | Total Number of Domini<br>Species Across All Stra                  |  |  |  |  |
| 4   |              |   |                 | Percent of Dominant Sp   | necies   |  |  |  |
| 5   |              |   |                 | That Are OBL, FACW, o  |  |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                         |              | = Total   | Cover           | Prevalence Index work  | ksheet:  |  |  |  |
|   | 10           |   |                 | Total % Cover of:  |  |  |  |  |
| 2   |              |   |                 |  | x 1 = 0  |  |  |  |
| 3   |              |   |                 | 1  | x 2 = 0  |  |  |  |
| 4   |              |   |                 |  |  |  |  |  |
| 5   |              | <br>Total                                       | Cover           | UPL species 0  | x 5 = 0  |  |  |  |
| Herb Stratum (Plot size: 30 ft r )                                  |              |   |                 | Column Totals: 100   | (A) 400 (B)  |  |  |  |
| 1, 100 100 100 100  | 30           | <u> </u>  | FACU<br>FACU    | Dravalance Index   | = B/A = <u>4.00</u>  |  |  |  |
| 3. Cirsium arvense  | 20           | <del></del>                                     | - FACU          | Hydrophytic Vegetation   |  |  |  |  |
|   | 20           |   | FACU            | 1 - Rapid Test for H   |  |  |  |  |
| 5   |              |   |                 | 2 - Dominance Tes  | it is >50%   |  |  |  |
| 6   |              |   |                 | 3 - Prevalence Inde  |  |  |  |  |
| 7   |              |   |                 | 4 - Morphological A  | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |  |  |  |
| 8   |              |   |                 | 1  | phytic Vegetation <sup>1</sup> (Explain)                               |  |  |  |
| 9   |              |   |                 |  |  |  |  |  |
|   | 100% :       | <br>= Total                                     | Cover           | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu | l and wetland hydrology must   |  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                            |              |   |                 | be present, unless distu   | arbed or problematic.  |  |  |  |
| 1   |              |   |                 | Hydrophytic<br>Vegetation  |  |  |  |  |
| 2   |              | <br>= Total                                     | Cover           | Present? Yes   | s No   |  |  |  |
| Remarks: (Include photo numbers here or on a separate sh            |              | · Otal  |                 | 1  |  |  |  |  |
| Hydrophytic vegetation absent.                                      |              |   |                 |  |  |  |  |  |
|   |              |   |                 |  |  |  |  |  |

SOIL Sampling Point: 1-I UPL

| Profile Desc               | cription: (Describe                         | to the dep   | th needed to docur     | nent the                | indicator            | or confire        | n the absence of ir | ndicators.)                                       |
|----------------------------|---|--------------|------------------------|-------------------------|----------------------|-------------------|---------------------|---|
| Depth                      | Matrix                                      |              |                        | x Feature               |                      |                   |                     |   |
| (inches)                   | Color (moist)                               | %            | Color (moist)          | %_                      | _Type <sup>1</sup> _ | _Loc <sup>2</sup> | Texture             | Remarks   |
| 0-6                        | 10YR 4/2                                    | 100_         |                        |                         |                      |                   | Silty Clay          |   |
| 6-20                       | 10YR 4/2                                    | 95           | 10YR 5/6               | 5                       | С                    | М                 | Silty Clay          |   |
| -                          |   |              |                        |                         |                      |                   |                     |   |
|                            |   |              |                        |                         |                      |                   |                     |   |
|                            |   |              |                        |                         |                      |                   |                     | _   |
| <u> </u>                   |   |              |                        |                         |                      |                   |                     |   |
| <u> </u>                   |   |              |                        |                         |                      |                   |                     |   |
|                            |   |              |                        |                         |                      |                   |                     |   |
|                            |   | oletion, RM: | Reduced Matrix, M      | S=Maske                 | d Sand Gr            | ains.             |                     | =Pore Lining, M=Matrix.                           |
| Hydric Soil                |   |              |                        |                         |                      |                   |                     | Problematic Hydric Soils <sup>3</sup> :           |
| Histosol                   |   |              |                        | -                       | atrix (S4)           |                   |                     | rie Redox (A16)                                   |
| ı —                        | oipedon (A2)<br>istic (A3)                  |              |                        | Redox (St<br>d Matrix ( | ,                    |                   | Dark Surfac         | ce (S7)<br>anese Masses (F12)                     |
| ı —                        | en Sulfide (A4)                             |              |                        |                         | neral (F1)           |                   |                     | ow Dark Surface (TF12)                            |
| - ' "                      | d Layers (A5)                               |              |                        |                         | atrix (F2)           |                   |                     | lain in Remarks)                                  |
| 2 cm Mu                    | ıck (A10)                                   |              | Deplete                | d Matrix (              | (F3)                 |                   |                     |   |
|                            | d Below Dark Surfac                         | e (A11)      | _                      | Dark Surf               | , ,                  |                   | 2                   |   |
| _                          | ark Surface (A12)                           |              |                        |                         | urface (F7)          | )                 |                     | ydrophytic vegetation and                         |
| ı —                        | /lucky Mineral (S1)<br>ucky Peat or Peat (S | 3)           | Redox I                | Depression              | ons (F8)             |                   | •                   | drology must be present,<br>urbed or problematic. |
|                            | Layer (if observed)                         |              |                        |                         |                      |                   | uniess dist         | arbed of problematic.                             |
|                            |   |              |                        |                         |                      |                   |                     |   |
| 1                          | ches):                                      |              |                        |                         |                      |                   | Hydric Soil Pres    | sent? Yes No                                      |
| Remarks:                   |   |              |                        |                         |                      |                   |                     |   |
| 11                         | !!  |              |                        |                         |                      |                   |                     |   |
| Hyaric                     | soil present.                               |              |                        |                         |                      |                   |                     |   |
|                            |   |              |                        |                         |                      |                   |                     |   |
|                            |   |              |                        |                         |                      |                   |                     |   |
| HYDROLO                    | GY  |              |                        |                         |                      |                   |                     |   |
| Wetland Hy                 | drology Indicators                          |              |                        |                         |                      |                   |                     |   |
| Primary Indi               | cators (minimum of                          | one is requi | red; check all that ag | ply)                    |                      |                   | Secondary In        | dicators (minimum of two required)                |
| Surface                    | Water (A1)                                  |              | Water-Sta              | ined Leav               | /es (B9)             |                   | Surface             | Soil Cracks (B6)                                  |
| I —                        | ater Table (A2)                             |              | Aquatic Fa             | auna (B13               | 3)                   |                   |                     | e Patterns (B10)                                  |
| Saturati                   | on (A3)                                     |              | True Aqua              | itic Plants             | (B14)                |                   | Dry-Seas            | son Water Table (C2)                              |
| Water M                    | larks (B1)                                  |              | Hydrogen               | Sulfide O               | dor (C1)             |                   | Crayfish            | Burrows (C8)                                      |
| Sedime                     | nt Deposits (B2)                            |              | Oxidized F             | Rhizosphe               | eres on Liv          | ing Roots         | (C3) Saturation     | on Visible on Aerial Imagery (C9)                 |
| Drift De                   | posits (B3)                                 |              | Presence               | of Reduc                | ed Iron (C           | 1)                | Stunted             | or Stressed Plants (D1)                           |
| Algal Ma                   | at or Crust (B4)                            |              | Recent Iro             | n Reduct                | ion in Tille         | d Soils (C        | <i>-</i>            | phic Position (D2)                                |
|                            | oosits (B5)                                 |              | Thin Muck              |                         | ` '                  |                   | FAC-Net             | utral Test (D5)                                   |
| ı —                        | on Visible on Aerial                        |              |                        |                         |                      |                   |                     |   |
|                            | y Vegetated Concav                          | e Surface (  | B8) Other (Exp         | olain in Re             | emarks)              |                   |                     |   |
| Field Obser                |   |              |                        |                         |                      |                   |                     |   |
| Surface Wat                |   |              | No Depth (in           |                         |                      |                   |                     |   |
| Water Table                |   |              | No Depth (in           |                         |                      |                   |                     |   |
| Saturation P (includes car |   | 'es          | No Depth (in           | ches):                  |                      | _   Wet           | land Hydrology Pre  | esent? Yes No                                     |
|                            |   | gauge, mo    | onitoring well, aerial | photos, p               | revious ins          | pections),        | , if available:     |   |
|                            |   |              |                        |                         |                      |                   |                     |   |
| Remarks:                   |   |              |                        |                         |                      |                   |                     |   |
| Wetland                    | l hydrology                                 | absent       |                        |                         |                      |                   |                     |   |
|                            | ,   |              |                        |                         |                      |                   |                     |   |
|                            |   |              |                        |                         |                      |                   |                     |   |

| Project/Site: AEP Fostoria to Lima           |              | (                | City/County: Findlay/Hancock Sampling Date: 2022-0 |                 |  |                 |                   |     |
|--|--------------|------------------|--|-----------------|--|-----------------|-------------------|-----|
| Applicant/Owner: AEP                         |              |                  | State: Ohio  | Sampling Poi    | <sub>nt:</sub> 1-J   |                 |                   |     |
| Investigator(s): Beth Hollinden, Chris       | Davissor     | <u>1</u>         | Section  | , Township, Ra  | nge: OH01 T2N R11E   | SN28            |                   |     |
| Landform (hillslope, terrace, etc.): Hillslo | ре           |                  |  | Local relief    | (concave, convex, none):   | Convex          |                   |     |
| Slope (%): 1 Lat: 41.09917                   | 2            | I                | Long: _  | -83.601105      |  | Datum: WG       | 3 84              |     |
| Soil Map Unit Name: BpA                      |              |                  |  |                 | NWI classific  | ation: N/A      |                   |     |
| Are climatic / hydrologic conditions on the  |              |                  |  |                 |  |                 |                   |     |
| Are Vegetation, Soil, or Hy                  | drology      | significantly of | disturbe   | ed? Are "       | 'Normal Circumstances" p   | present? Yes    | No                |     |
| Are Vegetation, Soil, or Hy                  |              |                  |  |                 | eeded, explain any answe   |                 |                   |     |
| SUMMARY OF FINDINGS – Atta                   | ıch site m   | nap showing      | samp   | oling point le  | ocations, transects  | , important     | t features, et    | tc. |
| Hydrophytic Vegetation Present?              |              | _ No             |  |                 |  |                 |                   |     |
| Hydric Soil Present?                         |              | _ No             |  | s the Sampled   |  | No              |                   |     |
| Wetland Hydrology Present?  Remarks:         | Yes          | _ No             |  | within a Wetlar | id? fes  | NO              |                   |     |
|  |              |                  |  |                 |  |                 |                   |     |
| PEM. ORAM score of 30.                       |              |                  |  |                 |  |                 |                   |     |
| VEGETATION – Use scientific na               | mes of pla   | ints.            |  |                 |  |                 |                   |     |
| 7 Obstance (Distriction 30 ft r              |              | Absolute         |  | nant Indicator  | Dominance Test work  | sheet:          |                   |     |
| Tree Stratum (Plot size: 30 ft r             |              |                  |  | es? Status      | Number of Dominant S<br>That Are OBL, FACW,                      |                 | (A)               |     |
| 1<br>2                                       |              |                  |  |                 |  |                 | (^)               |     |
| 3.   |              |                  |  |                 | Total Number of Domin<br>Species Across All Stra                 | _               | (B)               |     |
| 4.   |              |                  |  |                 |  |                 | (-/               |     |
| 5  |              |                  |  |                 | Percent of Dominant Sp<br>That Are OBL, FACW,                    |                 | ) (A/E            | 3)  |
| Sapling/Shrub Stratum (Plot size: 15 ft      | tr           | ,                | = Total  | Cover           | Prevalence Index wor   | ksheet:         |                   | _   |
| 1  |              |                  |  |                 | Total % Cover of:  |                 | Itiply by:        |     |
| 2.   |              |                  |  |                 | OBL species 20   | x 1 =           | 20                |     |
| 3  |              |                  |  |                 |  | x 2 = _         |                   |     |
| 4  |              |                  |  |                 | 1  | x 3 = 3         |                   |     |
| 5  |              |                  |  |                 | FACU species 0 UPL species 0                                     |                 | <u>0</u>          |     |
| Herb Stratum (Plot size: 5 ft r              | )            |                  | = Total  | Cover           | UPL species 0 Column Totals: 100                                 |                 | 190 (B            |     |
| 1. Lysimachia nummularia                     |              | 40               |  | FACW            |  |                 | (5                | ,   |
| 2. Carex vulpinoidea                         |              | 30               |  |                 | Prevalence Index   |                 |                   |     |
| 3. Scirpus cyperinus                         |              | 20               |  | OBL             | Hydrophytic Vegetation   |                 |                   |     |
| 4. Rumex crispus                             |              | 10               |  | <u>FAC</u>      | 1 - Rapid Test for I   |                 | getation          |     |
| 5  |              |                  |  |                 | 2 - Dominance Tes  |                 |                   |     |
| 6  |              |                  |  |                 | 4 - Morphological A  |                 | Provide supportir | na  |
| 7<br>8                                       |              |                  |  |                 | data in Remark   | s or on a separ | ate sheet)        | ·ə  |
| 9.   |              |                  |  |                 | Problematic Hydro  | phytic Vegetati | on¹ (Explain)     |     |
| 10   |              |                  |  |                 |  |                 |                   |     |
| Woody Vine Stratum (Plot size: 30 ft i       |              | 100%             | = Total  | Cover           | <sup>1</sup> Indicators of hydric soi<br>be present, unless dist |                 |                   |     |
| 1  |              |                  |  |                 | Hydrophytic  |                 |                   |     |
| 2.   |              |                  |  |                 | Hydrophytic Vegetation   |                 |                   |     |
|  |              |                  | = Total  | Cover           | Present? Ye  | sNo             | ·—                |     |
| Remarks: (Include photo numbers here         | or on a sepa | rate sheet.)     |  |                 |  |                 |                   |     |
| Hydrophytic vegetation p                     | oresent      |                  |  |                 |  |                 |                   |     |
| , , ,,                                       |              |                  |  |                 |  |                 |                   |     |

SOIL Sampling Point: 1-J

| Profile Desc               | ription: (Describe                         | to the dept     | th needed to docum      | nent the               | indicator          | or confire        | n the absence of i | ndicators.)                                       |
|----------------------------|--|-----------------|-------------------------|------------------------|--------------------|-------------------|--------------------|---|
| Depth                      | Matrix                                     |                 |                         | x Feature              |                    |                   |                    | ,   |
| (inches)                   | Color (moist)                              | %               | Color (moist)           | %                      | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture            | Remarks   |
| 0-4                        | 10YR 5/1                                   | 95              | 10YR 5/6                | 5                      | <u> </u>           | <u>M</u>          | Silty Clay         |   |
| 4 - 20                     | 10YR 5/1                                   | 75              | 10YR 5/6                | 25                     | С                  | М                 | Silty Clay         |   |
|                            |  |                 |                         |                        |                    |                   |                    |   |
|                            |  |                 |                         |                        |                    |                   |                    |   |
|                            |  |                 |                         |                        |                    |                   |                    |   |
| <u> </u>                   |  |                 |                         |                        | - ——               |                   |                    |   |
| <u> </u>                   |  |                 |                         |                        | - ——               |                   |                    |   |
|                            |  |                 |                         |                        |                    |                   |                    |   |
| <sup>1</sup> Type: C=C     | oncentration, D=Dep                        | oletion, RM=    | Reduced Matrix, MS      | S=Maske                | d Sand Gr          | ains.             |                    | =Pore Lining, M=Matrix.                           |
| Hydric Soil                | Indicators:                                |                 |                         |                        |                    |                   |                    | Problematic Hydric Soils <sup>3</sup> :           |
| Histosol                   | . ,  |                 |                         | -                      | atrix (S4)         |                   | _                  | rie Redox (A16)                                   |
| I —                        | oipedon (A2)<br>stic (A3)                  |                 |                         | Redox (S<br>d Matrix ( |                    |                   | Dark Surfa         | ce (S7)<br>anese Masses (F12)                     |
| ı —                        | en Sulfide (A4)                            |                 |                         |                        | ineral (F1)        |                   |                    | ow Dark Surface (TF12)                            |
|                            | d Layers (A5)                              |                 |                         |                        | latrix (F2)        |                   |                    | plain in Remarks)                                 |
|                            | ıck (A10)                                  |                 |                         | d Matrix               |                    |                   |                    | ,   |
| ı —                        | d Below Dark Surfac                        | e (A11)         | _                       | Dark Surf              | , ,                |                   |                    |   |
| _                          | ark Surface (A12)                          |                 |                         |                        | urface (F7         | )                 |                    | nydrophytic vegetation and                        |
| ı —                        | lucky Mineral (S1)<br>icky Peat or Peat (S | 2)              | Redox I                 | Depression             | ons (F8)           |                   |                    | drology must be present,<br>urbed or problematic. |
|                            | Layer (if observed)                        |                 |                         |                        |                    |                   | unless dist        | urbed of problematic.                             |
|                            | - Layor (ii oboor vou)                     |                 |                         |                        |                    |                   |                    |   |
| " —                        | ches):                                     |                 |                         |                        |                    |                   | Hydric Soil Pre    | sent? Yes No                                      |
| Remarks:                   |  |                 |                         |                        |                    |                   |                    |   |
|                            |  |                 |                         |                        |                    |                   |                    |   |
| Hyaric                     | soil present.                              |                 |                         |                        |                    |                   |                    |   |
|                            |  |                 |                         |                        |                    |                   |                    |   |
|                            |  |                 |                         |                        |                    |                   |                    |   |
| HYDROLO                    | GY   |                 |                         |                        |                    |                   |                    |   |
|                            | drology Indicators                         | :               |                         |                        |                    |                   |                    |   |
| 1                          |  |                 | ed; check all that ap   | (vla                   |                    |                   | Secondary Ir       | ndicators (minimum of two required)               |
|                            | Water (A1)                                 | 2110 10 10 quii | <u>✓</u> Water-Stai     |                        | /es (B9)           |                   |                    | Soil Cracks (B6)                                  |
|                            | ater Table (A2)                            |                 | Aquatic Fa              |                        |                    |                   |                    | e Patterns (B10)                                  |
| Saturation                 | , ,  |                 | True Aqua               | ,                      | ,                  |                   |                    | son Water Table (C2)                              |
| Water M                    | larks (B1)                                 |                 | Hydrogen                |                        | . ,                |                   |                    | Burrows (C8)                                      |
| Sedimer                    | nt Deposits (B2)                           |                 | Oxidized F              | Rhizosphe              | eres on Liv        | ing Roots         | (C3) Saturation    | on Visible on Aerial Imagery (C9)                 |
| Drift De                   | oosits (B3)                                |                 | Presence                | of Reduc               | ed Iron (C         | 4)                | Stunted            | or Stressed Plants (D1)                           |
| Algal Ma                   | at or Crust (B4)                           |                 | Recent Iro              | n Reduct               | ion in Tille       | d Soils (C        | 6) Geomor          | phic Position (D2)                                |
| Iron Dep                   | oosits (B5)                                |                 | Thin Muck               |                        | , ,                |                   | FAC-Ne             | utral Test (D5)                                   |
| ı —                        | on Visible on Aerial                       |                 | ·                       |                        |                    |                   |                    |   |
|                            | / Vegetated Concav                         | e Surface (E    | 38) Other (Exp          | olain in R             | emarks)            |                   |                    |   |
| Field Obser                |  |                 |                         |                        |                    |                   |                    |   |
| Surface Wat                |  |                 | No Depth (inc           |                        |                    |                   |                    |   |
| Water Table                |  |                 | No Depth (inc           |                        |                    |                   |                    |   |
| Saturation P (includes car |  | es l            | No Depth (inc           | ches):                 |                    | _   Wet           | land Hydrology Pr  | esent? Yes No                                     |
|                            |  | n gauge, mo     | nitoring well, aerial p | photos, p              | revious ins        | spections),       | if available:      |   |
|                            |  |                 |                         |                        |                    |                   |                    |   |
| Remarks:                   |  |                 |                         |                        |                    |                   |                    |   |
| Wetland                    | l hydrology                                | nrecent         | <b>.</b>                |                        |                    |                   |                    |   |
| vvetiant                   | i ilyalology                               | Pi Gacili       |                         |                        |                    |                   |                    |   |
|                            |  |                 |                         |                        |                    |                   |                    |   |
| I                          |  |                 |                         |                        |                    |                   |                    |   |

| Project/Site: AEP Fostoria to Lima                                | C             | City/County: Findlay/Hancock Sampling Date: 2022 |                   |             |   |  |                      |
|---|---------------|--|-------------------|-------------|---|--|----------------------|
| Applicant/Owner: AEP  |               | State: Ohio                                      | Sampling Point: 1 | -J/K/L UPL  |   |  |                      |
| Investigator(s): Beth Hollinden, Chris Davisson                   | s             | Section  | n, Tow            | nship, Rai  | nge: OH01 T2N R11E                            | SN28   |                      |
| Landform (hillslope, terrace, etc.): Hillslope                    |               |  | Lo                | ocal relief | (concave, convex, none):                      | Convex                                       |                      |
| Slope (%): 2 Lat: 41.098971                                       | L             | ong: _   | -83.6             | 01403       |   | Datum: WGS 84                                | <u> </u>             |
| Soil Map Unit Name: PmA   |               |  |                   |             | NWI classific                                 | ation: N/A                                   |                      |
| Are climatic / hydrologic conditions on the site typical for this | time of yea   | r? Ye  | s                 | No _        | (If no, explain in R                          | emarks.)                                     |                      |
| Are Vegetation, Soil, or Hydrology si                             | gnificantly d | disturbe   | ed?               | Are "       | Normal Circumstances" p                       | present? Yes                                 | No                   |
| Are Vegetation, Soil, or Hydrology na                             | aturally prob | olemati  | ic?               | (If ne      | eded, explain any answe                       | rs in Remarks.)                              |                      |
| SUMMARY OF FINDINGS - Attach site map s                           | showing       | samp   | pling             | point le    | ocations, transects                           | , important fea                              | itures, etc.         |
| Hydrophytic Vegetation Present? Yes No                            | ·             |  |                   |             |   |  |                      |
| Hydric Soil Present? Yes No                                       |               |  |                   | Sampled     |   |  |                      |
| Wetland Hydrology Present? Yes No                                 |               |  | within            | a Wetlan    | nd? Yes                                       | No   |                      |
| Remarks:  |               |  |                   |             |   |  |                      |
| Upland point for Wetland 1-J, Wetla                               | ind 1-K       | , an   | d W               | etland      | d 1-L.  |  |                      |
| VEGETATION – Use scientific names of plants.                      |               |  |                   |             |   |  |                      |
|   |               | Domii  | nant I            | ndicator    | Dominance Test work                           | sheet:                                       |                      |
|   | % Cover       | Speci  | ies?              |             | Number of Dominant S                          | pecies                                       |                      |
| 1   |               |  |                   |             | That Are OBL, FACW,                           | or FAC: 0                                    | (A)                  |
| 2.<br>3.  |               |  |                   |             | Total Number of Domin                         | _  | (D)                  |
| 4   |               |  |                   |             | Species Across All Stra                       | ita: <u>3</u>                                | (B)                  |
| 5   |               |  |                   |             | Percent of Dominant Sp<br>That Are OBL, FACW, |  | (A/B)                |
| 15 ft r   | =             | = Total  | I Cove            | r           |   |  |                      |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |               |  |                   |             | Prevalence Index wor  Total % Cover of:       |  | by:                  |
| 1<br>2  |               |  |                   |             |   | x 1 = 0                                      | Dy.                  |
| 3.  |               |  |                   |             | FACW species 0                                |  |                      |
| 4.  |               |  |                   |             |   | x 3 = 0                                      |                      |
| 5   |               |  |                   |             | FACU species 100                              |  |                      |
| tunt out a control 5 ft r   | =             | = Total  | I Cove            | r           | UPL species 0                                 | x 5 = 0                                      |                      |
| Herb Stratum (Plot size: 5 ft r )  1 Festuca rubra                | 40            | ~  | <b>,</b>          | FACU        | Column Totals: 100                            | (A) <u>400</u>                               | (B)                  |
| Trifolium repens  | 40            |  | · ī               | FACU        | Prevalence Index                              | = B/A = <u>4.00</u>                          |                      |
| 3. Plantago lanceolata  | 20            |  | <u> </u>          | FACU        | Hydrophytic Vegetation                        |  |                      |
| 4.  |               |  |                   |             | 1 - Rapid Test for I                          | Hydrophytic Vegeta                           | tion                 |
| 5   |               |  |                   |             | 2 - Dominance Tes                             |  |                      |
| 6   |               |  |                   |             | 3 - Prevalence Inde                           |  |                      |
| 7   |               |  |                   |             | 4 - Morphological A                           | Adaptations¹ (Provid<br>s or on a separate s | le supporting sheet) |
| 8   |               |  |                   |             | Problematic Hydro                             |  |                      |
| 9   |               |  |                   |             |   |  |                      |
| 10  | 100% =        | = Total  | L Cove            | r           | <sup>1</sup> Indicators of hydric soi         |  |                      |
| Woody Vine Stratum (Plot size: 30 ft r )                          |               | rota   | . 0040            | •           | be present, unless distu                      | urbed or problemation                        | С.                   |
| 1   |               |  |                   |             | Hydrophytic                                   |  |                      |
| 2   |               |  |                   |             | Vegetation<br>  Present? Ye                   | s No   | <u></u>              |
| Remarks: (Include photo numbers here or on a separate s           |               | = Total  | Cove              | r           |   |  |                      |
|   | ,             |  |                   |             |   |  |                      |
| Hydrophytic vegetation absent.                                    |               |  |                   |             |   |  |                      |
|   |               |  |                   |             |   |  |                      |

SOIL Sampling Point: 1-J/K/L UPL

| Profile Desc                  | cription: (Describe                   | to the depti                            | h needed to docur                               | nent the i             | ndicator          | or confirm  | the absence of  | indicators.)  |
|-------------------------------|---------------------------------------|---|---|------------------------|-------------------|-------------|-----------------|---|
| Depth<br>(inches)             | Matrix Color (moist)                  | %                                       | Redo<br>Color (moist)                           | x Feature:<br>%        | Type <sup>1</sup> | _Loc²       | Texture         | Remarks   |
| 0 - 20                        | 10YR 6/3                              |   | 10YR 5/6  | 5                      | C                 | M           | Silty Clay      | Remarks   |
|                               | 1011075                               | - ===================================== | 10110 3/0                                       |                        |                   | 141         | Sity Clay       |   |
|                               |                                       |   |   |                        |                   |             |                 |   |
|                               |                                       |   |   |                        |                   |             |                 |   |
|                               |                                       |   |   |                        |                   |             |                 |   |
|                               |                                       |   |   |                        |                   |             |                 |   |
| _                             |                                       |   |   |                        |                   |             |                 |   |
|                               |                                       |   |   |                        |                   |             |                 |   |
|                               | oncentration, D=Dep                   | oletion, RM=I                           | Reduced Matrix, MS                              | S=Masked               | I Sand Gr         | ains.       |                 | PL=Pore Lining, M=Matrix. r Problematic Hydric Soils³:  |
| Hydric Soil                   |                                       |   | Candy   | Clayed Ma              | driv (CA)         |             |                 |   |
| Histosol                      | oipedon (A2)                          |   |   | Gleyed Ma<br>Redox (S5 |                   |             | Coast Pra       | airie Redox (A16)                                       |
| . —                           | istic (A3)                            |   |   | d Matrix (S            | -                 |             |                 | ganese Masses (F12)                                     |
| _                             | en Sulfide (A4)                       |   |   | Mucky Mir              | ,                 |             |                 | llow Dark Surface (TF12)                                |
| Stratified                    | d Layers (A5)                         |   | _ ′   | Gleyed Ma              |                   |             | Other (Ex       | plain in Remarks)                                       |
| ı —                           | ıck (A10)                             |   |   | d Matrix (I            |                   |             |                 |   |
|                               | d Below Dark Surfac                   | e (A11)                                 | _   | Dark Surfa             |                   |             | 31              | hudaankuti uu matatian and                              |
| _                             | ark Surface (A12)  Mucky Mineral (S1) |   |   | d Dark Su<br>Depressio | ,                 | )           |                 | hydrophytic vegetation and<br>ydrology must be present, |
| ı —                           | icky Peat or Peat (S                  | 3)                                      | 1100001   | эсргсээгог             | 113 (1 0)         |             |                 | sturbed or problematic.                                 |
|                               | Layer (if observed)                   |   |   |                        |                   |             |                 | ·   |
| Туре:                         |                                       |   |   |                        |                   |             |                 |   |
| Depth (in                     | ches):                                |   |   |                        |                   |             | Hydric Soil Pr  | esent? Yes No   |
| Remarks:                      |                                       |   |   |                        |                   |             |                 |   |
| Hydric                        | soil absent.                          |   |   |                        |                   |             |                 |   |
| HYDROLO                       | GY                                    |   |   |                        |                   |             |                 |   |
| Wetland Hy                    | drology Indicators                    | :                                       |   |                        |                   |             |                 |   |
| Primary India                 | cators (minimum of                    | one is require                          | ed; check all that ap                           | ply)                   |                   |             | Secondary       | Indicators (minimum of two required)                    |
| _                             | Water (A1)                            |   | Water-Sta                                       | ined Leave             | es (B9)           |             | Surface         | e Soil Cracks (B6)                                      |
|                               | ater Table (A2)                       |   | Aquatic Fa                                      | , ,                    | ,                 |             |                 | ge Patterns (B10)                                       |
| Saturation                    |                                       |   | True Aqua                                       |                        |                   |             |                 | ason Water Table (C2)                                   |
| l —                           | larks (B1)                            |   | Hydrogen  |                        | , ,               |             |                 | h Burrows (C8)  |
|                               | nt Deposits (B2)                      |   | Oxidized F Presence                             |                        |                   |             |                 | tion Visible on Aerial Imagery (C9)                     |
|                               | oosits (B3)<br>at or Crust (B4)       |   | Recent Iro                                      |                        | ,                 | ,           |                 | d or Stressed Plants (D1)<br>orphic Position (D2)       |
|                               | posits (B5)                           |   | Thin Muck                                       |                        |                   | u Solis (CC | . —             | eutral Test (D5)  |
| '                             | on Visible on Aerial                  | Imagery (B7)                            | _   | ,                      |                   |             | 17.0-11         | cultur rest (50)  |
| —                             | y Vegetated Concav                    |   |   |                        |                   |             |                 |   |
| Field Obser                   |                                       |   | <u>, —                                     </u> |                        |                   |             |                 |   |
| Surface Wat                   | er Present?                           | es N                                    | lo Depth (in                                    | ches):                 |                   |             |                 |   |
| Water Table                   |                                       |   | lo Depth (in                                    |                        |                   |             |                 |   |
| Saturation P<br>(includes cap | resent?                               |   | lo Depth (inc                                   |                        |                   |             | and Hydrology P | resent? Yes No  |
| Describe Re                   | corded Data (strean                   | n gauge, mor                            | nitoring well, aerial p                         | photos, pr             | evious ins        | spections), | if available:   |   |
| Remarks:                      |                                       |   |   |                        |                   |             |                 |   |
| Wetland                       | l hydrology                           | aheant                                  |   |                        |                   |             |                 |   |
| vvetiano                      | i ilyulology                          | นมวะแเ.                                 |   |                        |                   |             |                 |   |
|                               |                                       |   |   |                        |                   |             |                 |   |

| Project/Site: AEP Fostoria to Lima          |              | c                     | ity/Cou                         | unty: Findlay/  | /Hancock   | Sampling Date:  | 2022-06-30     |
|---|--------------|-----------------------|---------------------------------|-----------------|--|---|----------------|
| Applicant/Owner: AEP                        |              |                       | State: Ohio Sampling Point: 1-K |                 |  |   |                |
| Investigator(s): Beth Hollinden, Chris      | Davisso      | , Township, Ra        | nge: OH01 T2N R11E              | SN28            |  |   |                |
| Landform (hillslope, terrace, etc.): Depre  | ssion        |                       |                                 |                 | (concave, convex, none):                         | _   |                |
| Slope (%): 2 Lat: 41.09902                  | .7           | L                     | .ong: _                         | -83.601353      |  | Datum: WGS 8  | 4              |
| Soil Map Unit Name: BpA                     |              |                       |                                 |                 | NWI classific                                    | ation: PEM1C  |                |
| Are climatic / hydrologic conditions on the | site typical | for this time of year | r? Yes                          |                 |  |   |                |
| Are Vegetation, Soil, or Hy                 | drology      | significantly d       | listurbe                        | ed? Are "       | 'Normal Circumstances" p                         | resent? Yes   | No             |
| Are Vegetation, Soil, or Hy                 | drology      | naturally prob        | olemati                         | c? (If ne       | eded, explain any answe                          | rs in Remarks.)                                       |                |
| SUMMARY OF FINDINGS - Atta                  | nch site r   | nap showing s         | samp                            | oling point le  | ocations, transects                              | , important fe  | atures, etc.   |
| Hydrophytic Vegetation Present?             | Yes _ 🗸      | No                    |                                 |                 |  |   |                |
| Hydric Soil Present?                        |              | No                    |                                 | s the Sampled   |  | ,   |                |
| Wetland Hydrology Present?                  | Yes          | No                    |                                 | within a Wetlar | nd? Yes  | No  |                |
| Remarks:                                    |              |                       |                                 |                 |  |   |                |
| PEM. ORAM score of 46.                      |              |                       |                                 |                 |  |   |                |
| VEGETATION – Use scientific na              | mes of pl    | ants.                 |                                 |                 |  |   |                |
| 90.5  | · ·          | Absolute              | Domir                           | nant Indicator  | Dominance Test work                              | sheet:  |                |
| Tree Stratum (Plot size:30 ft r             |              |                       |                                 | es? Status      | Number of Dominant Sp<br>That Are OBL, FACW, of  | pecies<br>or FAC: 2                                   | (A)            |
| 2   |              |                       |                                 |                 | Total Number of Domin                            | ant   |                |
| 3   |              |                       |                                 |                 | Species Across All Stra                          | ıta: <u>2</u>   | (B)            |
| 4.       5.                                 |              |                       |                                 |                 | Percent of Dominant Sp<br>That Are OBL, FACW, of |   | (A/B)          |
| Sapling/Shrub Stratum (Plot size: 15 f      | tr           | ,=                    | = Total                         | Cover           | Prevalence Index wor                             |   |                |
| 1   |              |                       |                                 |                 | Total % Cover of:                                |   | y by:          |
| 2   |              |                       |                                 |                 |  | x 1 = 100   |                |
| 3.  |              |                       |                                 |                 |  | x 2 = 20  |                |
| 4.  |              |                       |                                 |                 |  | x 3 = <u>0</u>  |                |
| 5   |              |                       |                                 |                 | FACU species 0                                   | x 4 = <u>0</u>  |                |
| E ## "                                      |              | =                     | = Total                         | Cover           | UPL species 0                                    | x 5 = <u>0</u>  |                |
| Herb Stratum (Plot size: 5 ft r             | )            | 100                   | ~                               | OBL             | Column Totals: 110                               | (A) <u>120</u>  | (B)            |
| 2.  |              |                       |                                 |                 | Prevalence Index                                 | = B/A = 1.09  |                |
| 3   |              |                       |                                 |                 | Hydrophytic Vegetation                           |   |                |
| 4   |              |                       |                                 |                 | ✓ 1 - Rapid Test for H                           | Hydrophytic Vegeta                                    | ation          |
| 5   |              |                       |                                 |                 | ✓ 2 - Dominance Tes                              | t is >50%   |                |
| 6   |              |                       |                                 |                 | ✓ 3 - Prevalence Inde                            |   |                |
| 7   |              |                       |                                 |                 | 4 - Morphological A                              | Adaptations <sup>1</sup> (Provi<br>s or on a separate | ide supporting |
| 8   |              |                       |                                 |                 | Problematic Hydro                                |   |                |
| 9   |              |                       |                                 |                 | Troblematic riyaro                               | briytic vegetation                                    | (Explain)      |
| 10  |              |                       |                                 |                 | <sup>1</sup> Indicators of hydric soi            | l and wetland hydr                                    | rology must    |
| Woody Vine Stratum (Plot size: 30 ft        | r            | 100% =                | = Total                         | Cover           | be present, unless distu                         | urbed or problemat                                    | tic.           |
| 1. Vitis riparia                            |              | 10                    |                                 | FACW            | Hydrophytic                                      |   |                |
| 2   |              |                       |                                 |                 | Vegetation                                       | v   |                |
|   |              |                       | = Total                         | Cover           | Present? Yes                                     | s No  |                |
| Remarks: (Include photo numbers here        | or on a sepa | arate sheet.)         |                                 |                 |  |   |                |
| Hydrophytic vegetation p                    | oresent      | t.                    |                                 |                 |  |   |                |

SOIL Sampling Point: 1-K

| Profile Desc | ription: (Describe                          | to the depth   | needed to docun         | nent the                  | indicator          | or confire       | n the absence of | indicators.)   |
|--------------|---|----------------|-------------------------|---------------------------|--------------------|------------------|------------------|--|
| Depth        | Matrix                                      |                |                         | x Feature                 |                    |                  |                  |  |
| (inches)     | Color (moist)                               | %              | Color (moist)           | %                         | _Type <sup>1</sup> | Loc <sup>2</sup> | Texture          | Remarks  |
| 0 - 20       | 10YR 5/2                                    | 90             | 10YR 5/6                | 10                        | <u> </u>           | <u>M</u>         | Silty Clay       |  |
|              |   |                |                         |                           |                    |                  |                  |  |
|              |   |                |                         |                           |                    |                  |                  |  |
|              |   |                |                         |                           |                    |                  |                  |  |
|              |   |                |                         |                           |                    |                  |                  | _  |
| <u> </u>     |   |                |                         |                           |                    |                  |                  |  |
| <u> </u>     |   |                |                         |                           |                    |                  |                  |  |
|              |   |                |                         |                           |                    |                  |                  |  |
|              | oncentration, D=Dep                         | oletion, RM=F  | Reduced Matrix, MS      | S=Maske                   | d Sand Gr          | ains.            |                  | PL=Pore Lining, M=Matrix.                            |
| Hydric Soil  | Indicators:                                 |                |                         |                           |                    |                  |                  | r Problematic Hydric Soils <sup>3</sup> :            |
| Histosol     |   |                |                         | -                         | atrix (S4)         |                  | _                | airie Redox (A16)                                    |
| I —          | oipedon (A2)<br>istic (A3)                  |                |                         | Redox (St<br>I Matrix (\$ |                    |                  | Dark Surfa       | ace (S7)<br>ganese Masses (F12)                      |
| ı —          | en Sulfide (A4)                             |                |                         |                           | neral (F1)         |                  |                  | llow Dark Surface (TF12)                             |
|              | d Layers (A5)                               |                |                         |                           | atrix (F2)         |                  |                  | plain in Remarks)                                    |
| 2 cm Mu      | ıck (A10)                                   |                | <u>✓</u> Deplete        |                           |                    |                  |                  |  |
| ı —          | d Below Dark Surfac                         | e (A11)        | _                       | ark Surf                  | , ,                |                  | 2                |  |
| _            | ark Surface (A12)                           |                |                         |                           | urface (F7         | )                |                  | hydrophytic vegetation and                           |
| ı —          | /lucky Mineral (S1)<br>ucky Peat or Peat (S | 3)             | Redox L                 | Depressio                 | ons (F8)           |                  |                  | ydrology must be present,<br>sturbed or problematic. |
|              | Layer (if observed)                         |                |                         |                           |                    |                  | dilless dis      | surbed of problematic.                               |
| I            |   |                |                         |                           |                    |                  |                  |  |
|              | ches):                                      |                | _                       |                           |                    |                  | Hydric Soil Pre  | esent? Yes No  |
| Remarks:     |   |                |                         |                           |                    |                  |                  |  |
|              | !!  |                |                         |                           |                    |                  |                  |  |
| Hyaric       | soil present.                               |                |                         |                           |                    |                  |                  |  |
|              |   |                |                         |                           |                    |                  |                  |  |
|              |   |                |                         |                           |                    |                  |                  |  |
| HYDROLO      | GY  |                |                         |                           |                    |                  |                  |  |
| Wetland Hy   | drology Indicators                          | :              |                         |                           |                    |                  |                  |  |
| Primary Indi | cators (minimum of                          | one is require | d; check all that ap    | ply)                      |                    |                  | Secondary        | Indicators (minimum of two required)                 |
| ✓ Surface    | Water (A1)                                  |                | Water-Stai              | ned Leav                  | /es (B9)           |                  | Surface          | e Soil Cracks (B6)                                   |
| ✓ High Wa    | ater Table (A2)                             |                | Aquatic Fa              | una (B13                  | 3)                 |                  | Drainaç          | ge Patterns (B10)                                    |
| ✓ Saturation | on (A3)                                     |                | True Aqua               | tic Plants                | (B14)              |                  | Dry-Sea          | ason Water Table (C2)                                |
|              | larks (B1)                                  |                | Hydrogen                |                           |                    |                  |                  | h Burrows (C8)                                       |
| I —          | nt Deposits (B2)                            |                | Oxidized R              |                           |                    |                  |                  | tion Visible on Aerial Imagery (C9)                  |
|              | posits (B3)                                 |                | Presence                |                           | ,                  | ,                | _                | d or Stressed Plants (D1)                            |
| -            | at or Crust (B4)                            |                | Recent Iro              |                           |                    | d Soils (C       | . —              | orphic Position (D2)                                 |
|              | oosits (B5)<br>on Visible on Aerial         | Imagen/ (B7)   | Thin Muck<br>Gauge or \ |                           | ` '                |                  | FAC-N            | eutral Test (D5)                                     |
| ı —          | Vegetated Concav                            |                |                         |                           | . ,                |                  |                  |  |
| Field Obser  |   | e odridoc (Di  | other (Exp              | , and milit               | emarks,            |                  |                  |  |
| Surface Wat  |   | es / N         | o Depth (inc            | ches): 2                  |                    |                  |                  |  |
| Water Table  |   |                | o Depth (inc            |                           |                    | _                |                  |  |
| Saturation P |   |                | o Depth (inc            |                           |                    | —  <br>Wet       | land Hydrology P | resent? Yes No                                       |
| (includes ca | oillary fringe)                             |                |                         |                           |                    |                  |                  |  |
| Describe Re  | corded Data (strean                         | n gauge, mon   | itoring well, aerial p  | photos, p                 | revious ins        | spections),      | , if available:  |  |
| Damarka      |   |                |                         |                           |                    |                  |                  |  |
| Remarks:     |   |                |                         |                           |                    |                  |                  |  |
| ∣Wetland     | l hydrology                                 | present        | •                       |                           |                    |                  |                  |  |
|              |   |                |                         |                           |                    |                  |                  |  |
|              |   |                |                         |                           |                    |                  |                  |  |

| Project/Site: AEP Fostoria to Lima                                  | c             | City/Count                      | <sub>ty:</sub>           | Sampling Date: 2022-06-30                         |  |  |  |  |
|---|---------------|---------------------------------|--------------------------|---|--|--|--|--|
| Applicant/Owner: AEP  |               | State: Ohio Sampling Point: 1-L |                          |   |  |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                     | ownship, Rai  | nge: OH01 T2N R11E              | SN28                     |   |  |  |  |  |
| Landform (hillslope, terrace, etc.): Depression                     |               |                                 | Local relief             | (concave, convex, none):                          | Concave  |  |  |  |
| Slope (%): 1 Lat: 41.098919   | ι             | Long: -83.601686 Datum: WGS 84  |                          |   |  |  |  |  |
| Soil Map Unit Name: PmA   |               |                                 |                          | NWI classific                                     | ation: N/A   |  |  |  |
| Are climatic / hydrologic conditions on the site typical for this t |               |                                 |                          |   |  |  |  |  |
| Are Vegetation, Soil, or Hydrology sig                              | nificantly of | disturbed?                      | ? Are "                  | Normal Circumstances" p                           | present? Yes No  |  |  |  |
| Are Vegetation, Soil, or Hydrology nat                              | turally prot  | olematic?                       | (If ne                   | eded, explain any answe                           | rs in Remarks.)  |  |  |  |
| SUMMARY OF FINDINGS - Attach site map s                             | nowing        | sampli                          | ng point le              | ocations, transects                               | , important features, etc.   |  |  |  |
| Hydrophytic Vegetation Present? Yes No                              |               |                                 |                          |   |  |  |  |  |
| Hydric Soil Present? Yes No   |               |                                 | the Sampled              |   | ,  |  |  |  |
| Wetland Hydrology Present? Yes No                                   |               | wit                             | thin a Wetlar            | nd? Yes•  | No   |  |  |  |
| Remarks:  |               |                                 |                          |   |  |  |  |  |
| PEM. ORAM score of 32.  |               |                                 |                          |   |  |  |  |  |
| <b>VEGETATION</b> – Use scientific names of plants.                 |               |                                 |                          |   |  |  |  |  |
|   |               |                                 | nt Indicator<br>? Status | Dominance Test work                               |  |  |  |  |
| 1   |               |                                 | : Otatus                 | Number of Dominant Sp<br>That Are OBL, FACW, of   | _  |  |  |  |
| 2.  |               |                                 |                          |   |  |  |  |  |
| 3   |               |                                 |                          | Total Number of Domini<br>Species Across All Stra | _  |  |  |  |
| 4   |               |                                 |                          | Percent of Dominant Sp                            | necies   |  |  |  |
| 5   |               |                                 |                          | That Are OBL, FACW, of                            |  |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                         | =             | = Total Co                      | over                     | Prevalence Index worl                             | ksheet:  |  |  |  |
| 1   |               |                                 |                          | Total % Cover of:                                 | Multiply by:   |  |  |  |
| 2.  |               |                                 |                          | OBL species 70                                    | x 1 = <u>70</u>  |  |  |  |
| 3   |               |                                 |                          | FACW species 40                                   | x 2 = <u>80</u>  |  |  |  |
| 4   |               |                                 |                          | FAC species 0                                     | x 3 = <u>0</u>   |  |  |  |
| 5   |               |                                 |                          |   | x 4 = <u>0</u>   |  |  |  |
| S ftr   | =             | = Total Co                      | over                     |   | x 5 = 0  |  |  |  |
| Herb Stratum (Plot size: 5 ft r )  1. Carex Iurida                  | 20            | ~                               | OBL                      | Column Totals: 110                                | (A) <u>150</u> (B)   |  |  |  |
|   | 20            |                                 | FACW                     | Prevalence Index                                  | = B/A = <u>1.36</u>  |  |  |  |
| 3. Scirpus atrovirens   | 20            |                                 | OBL                      | Hydrophytic Vegetation                            |  |  |  |  |
| 4. Scirpus cyperinus  | 20            | ~                               | OBL                      | ✓ 1 - Rapid Test for H                            | Hydrophytic Vegetation   |  |  |  |
| 5. Carex frankii  | 10            |                                 | OBL                      | ✓ 2 - Dominance Tes                               | st is >50%   |  |  |  |
| 6. Lysimachia nummularia  | 10            |                                 | <u>FACW</u>              | ✓ 3 - Prevalence Inde                             | ex is ≤3.0 <sup>1</sup>  |  |  |  |
| 7   |               |                                 |                          | 4 - Morphological A                               | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |  |  |  |
| 8   |               |                                 |                          | 1   | phytic Vegetation <sup>1</sup> (Explain)                               |  |  |  |
| 9   |               |                                 |                          | Problematic Hydron                                | Strytic vegetation (Explain)   |  |  |  |
| 10  | 100%          |                                 |                          | <sup>1</sup> Indicators of hydric soil            | l and wetland hydrology must   |  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r                              | 100%_         | = Total Co                      | over                     | be present, unless distu                          |  |  |  |  |
| 1. Vitis riparia  | 10            | <b>~</b>                        | FACW                     | Hydrophytic                                       |  |  |  |  |
| 2.  |               |                                 |                          | Vegetation  | <b>V</b>   |  |  |  |
|   | 10% :         | = Total Co                      | over                     | Present? Yes                                      | s No   |  |  |  |
| Remarks: (Include photo numbers here or on a separate sh            | eet.)         |                                 |                          |   |  |  |  |  |
| Hydrophytic vegetation present.                                     |               |                                 |                          |   |  |  |  |  |
|   |               |                                 |                          |   |  |  |  |  |

SOIL Sampling Point: 1-L

| Profile Desc               | ription: (Describe               | to the depth                            | needed to docum      | nent the                 | indicator          | or confirm        | n the absence of ir         | ndicators.)                             |  |  |  |
|----------------------------|----------------------------------|---|----------------------|--------------------------|--------------------|-------------------|-----------------------------|---|--|--|--|
| Depth                      | Matrix                           |   | Redo                 | x Feature                | s                  |                   |                             |   |  |  |  |
| (inches)                   | Color (moist)                    | %                                       | Color (moist)        | %                        | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                     | Remarks                                 |  |  |  |
| 0 - 20                     | 10YR 4/1                         | 90 1                                    | 0YR 5/6              | 10                       | <u>C</u>           | <u>M</u>          | Silty Clay                  |   |  |  |  |
| -                          |                                  |   |                      |                          |                    |                   |                             |   |  |  |  |
|                            |                                  |   |                      |                          |                    |                   |                             |   |  |  |  |
|                            |                                  |   |                      |                          |                    |                   |                             |   |  |  |  |
| l ——                       |                                  |   |                      |                          | . ——               |                   |                             |   |  |  |  |
|                            |                                  |   |                      |                          |                    |                   |                             |   |  |  |  |
|                            |                                  |   |                      |                          |                    |                   |                             |   |  |  |  |
| -                          |                                  |   |                      |                          |                    |                   |                             |   |  |  |  |
| <sup>1</sup> Type: C=Ce    | oncentration, D=Dep              | oletion. RM=Re                          | educed Matrix. MS    | S=Masked                 | d Sand Gr          | ains.             | <sup>2</sup> Location: PL   | .=Pore Lining, M=Matrix.                |  |  |  |
| Hydric Soil                |                                  | , | ,                    |                          |                    |                   |                             | Problematic Hydric Soils <sup>3</sup> : |  |  |  |
| Histosol                   | (A1)                             |   | Sandy C              | Sleyed Ma                | atrix (S4)         |                   | Coast Prair                 | rie Redox (A16)                         |  |  |  |
| Histic Ep                  | oipedon (A2)                     |   | Sandy F              | Redox (S5                | 5)                 |                   | Dark Surfa                  | ce (S7)                                 |  |  |  |
| ı —                        | istic (A3)                       |   |                      | Matrix (S                | ,                  |                   |                             | anese Masses (F12)                      |  |  |  |
|                            | en Sulfide (A4)                  |   |                      |                          | neral (F1)         |                   |                             | ow Dark Surface (TF12)                  |  |  |  |
| ı —                        | d Layers (A5)                    |   |                      | Gleyed Ma                |                    |                   | Other (Exp                  | lain in Remarks)                        |  |  |  |
| ı —                        | ick (A10)<br>d Below Dark Surfac | co (Δ11)                                |                      | d Matrix (<br>Dark Surfa | -                  |                   |                             |   |  |  |  |
| ı —                        | ark Surface (A12)                | Je (A11)                                | _                    |                          | urface (F7         | )                 | 3Indicators of h            | ydrophytic vegetation and               |  |  |  |
| _                          | Mucky Mineral (S1)               |   |                      | Depressio                | ,                  | ,                 |                             | drology must be present,                |  |  |  |
|                            | icky Peat or Peat (S             | 3)                                      | _                    |                          |                    |                   | -                           | urbed or problematic.                   |  |  |  |
| Restrictive I              | Layer (if observed)              | :                                       |                      |                          |                    |                   |                             |   |  |  |  |
| Type:                      |                                  |   | _                    |                          |                    |                   | Under Call Break            |   |  |  |  |
| Depth (in                  | ches):                           |   | _                    |                          |                    |                   | Hydric Soil Pres            | sent? Yes No                            |  |  |  |
| Remarks:                   |                                  |   |                      |                          |                    |                   |                             |   |  |  |  |
| Hydric                     | soil present.                    |   |                      |                          |                    |                   |                             |   |  |  |  |
| HYDROLO                    | GY                               |   |                      |                          |                    |                   |                             |   |  |  |  |
| Wetland Hy                 | drology Indicators               | :                                       |                      |                          |                    |                   |                             |   |  |  |  |
| Primary India              | cators (minimum of               | one is required                         | l; check all that ap | ply)                     |                    |                   | Secondary Ir                | ndicators (minimum of two required)     |  |  |  |
| Surface                    | Water (A1)                       |   | Water-Stai           | ned Leav                 | res (B9)           |                   | Surface                     | Soil Cracks (B6)                        |  |  |  |
| High Wa                    | ater Table (A2)                  |   | Aquatic Fa           | una (B13                 | 5)                 |                   | Drainage Patterns (B10)     |   |  |  |  |
| <u>✓</u> Saturation        | on (A3)                          |   | True Aqua            | tic Plants               | (B14)              |                   | Dry-Season Water Table (C2) |   |  |  |  |
| Water M                    | larks (B1)                       |   | Hydrogen             | Sulfide O                | dor (C1)           |                   | Crayfish                    | Burrows (C8)                            |  |  |  |
| Sedimer                    | nt Deposits (B2)                 |   | Oxidized F           | Rhizosphe                | eres on Liv        | ing Roots         | . , —                       | on Visible on Aerial Imagery (C9)       |  |  |  |
| Drift Dep                  | posits (B3)                      |   | Presence             | of Reduce                | ed Iron (C         | 4)                | Stunted                     | or Stressed Plants (D1)                 |  |  |  |
| -                          | at or Crust (B4)                 |   | Recent Iro           | n Reducti                | ion in Tille       | d Soils (Ce       |                             | phic Position (D2)                      |  |  |  |
| I —                        | posits (B5)                      |   | Thin Muck            |                          |                    |                   | <u>✓</u> FAC-Ne             | utral Test (D5)                         |  |  |  |
| ı —                        | on Visible on Aerial             |   | Gauge or \           |                          | . ,                |                   |                             |   |  |  |  |
|                            | y Vegetated Concav               | e Surface (B8)                          | Other (Exp           | lain in Re               | emarks)            |                   |                             |   |  |  |  |
| Field Obser                |                                  |   | <b>V</b>             |                          |                    |                   |                             |   |  |  |  |
| Surface Wat                |                                  |   | Depth (inc           |                          |                    |                   |                             |   |  |  |  |
| Water Table                |                                  |   | Depth (inc           |                          |                    |                   |                             | .,                                      |  |  |  |
| Saturation P (includes car |                                  | res No                                  | Depth (inc           | ches): <u>0</u>          |                    | Wetl              | and Hydrology Pro           | esent? Yes No                           |  |  |  |
|                            | corded Data (strean              | n gauge, monit                          | oring well, aerial p | ohotos, pr               | evious ins         | spections),       | if available:               |   |  |  |  |
| Remarks:                   |                                  |   |                      |                          |                    |                   |                             |   |  |  |  |
|                            | l hydrology                      | nracant                                 |                      |                          |                    |                   |                             |   |  |  |  |
| vvetiailo                  | l hydrology                      | present.                                |                      |                          |                    |                   |                             |   |  |  |  |
|                            |                                  |   |                      |                          |                    |                   |                             |   |  |  |  |

| Project/Site: AEP Fostoria to Lima   | y: Findlay,                     | /Hancock                                     | Sampling Date: 2022-06-30 |  |  |  |  |
|--|---------------------------------|--|---------------------------|--|--|--|--|
| Applicant/Owner: AEP   | State: Ohio Sampling Point: 1-M |  |                           |  |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson  |                                 | Section, Township, Range: OH01 T2N R11E SN28 |                           |  |  |  |  |
|  |                                 |  |                           | (concave, convex, none):   | _  |  |  |
| Slope (%): 1 Lat: 41.098837  |                                 | Long:83                                      | 3.602148                  |  | Datum: WGS 84                                |  |  |
| Soil Map Unit Name: PmA  |                                 |  |                           | NWI classific  | ation: R4SBC                                 |  |  |
| Are climatic / hydrologic conditions on the site typical for the   | is time of ye                   |  |                           |  |  |  |  |
| Are Vegetation, Soil, or Hydrology   | significantly                   | disturbed?                                   | Are '                     | 'Normal Circumstances" p   | present? Yes No                              |  |  |
| Are Vegetation, Soil, or Hydrology   | naturally pro                   | blematic?                                    | (If ne                    | eeded, explain any answe   | rs in Remarks.)                              |  |  |
| SUMMARY OF FINDINGS – Attach site map  | showing                         | samplir                                      | ng point l                | ocations, transects  | , important features, etc.                   |  |  |
| Hydrophytic Vegetation Present? Yes N  |                                 |  |                           |  |  |  |  |
| Hydric Soil Present? Yes N   |                                 |  | he Sampled                | Na   |  |  |  |
| Wetland Hydrology Present? Yes N   | No                              | Witi   | hin a Wetlar              | id? Yes  | No   |  |  |
| Remarks:   |                                 |  |                           |  |  |  |  |
| PEM. ORAM score of 29.   |                                 |  |                           |  |  |  |  |
| VEGETATION – Use scientific names of plants  | s.                              |  |                           |  |  |  |  |
| Tree Stratum (Plot size:30 ft r)   | Absolute                        |  | t Indicator               | Dominance Test work  |  |  |  |
| 1  |                                 |  |                           | Number of Dominant Sp<br>That Are OBL, FACW, of                    |  |  |  |
| 2  |                                 |  |                           | Total Number of Domin  |  |  |  |
| 3  |                                 |  |                           | Species Across All Stra  | ta: <u>3</u> (B)                             |  |  |
| 4.         5.  |                                 |  |                           | Percent of Dominant Sp<br>That Are OBL, FACW, of                   |  |  |  |
| 15 ft r  |                                 | = Total Co                                   | over                      |  |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )  |                                 |  |                           | Prevalence Index work  Total % Cover of:                           |  |  |  |
| 1  |                                 |  |                           |  | x 1 = 30                                     |  |  |
| 2  |                                 |  |                           | FACW species 60  | x 2 = 120                                    |  |  |
| 3<br>4   |                                 |  |                           |  | x 3 = 60                                     |  |  |
| 5.   |                                 |  |                           | FACU species 0   | x 4 = 0                                      |  |  |
|  |                                 | = Total Co                                   | over                      | UPL species 0  | x 5 = 0                                      |  |  |
| Herb Stratum (Plot size: 5 ft r )  | 40                              |  | EA (C) A (                | Column Totals: 110   | (A) 210 (B)                                  |  |  |
| 1 Lysimachia nummularia  | $-\frac{40}{20}$                |  | FACW                      |  | 1 Q1   |  |  |
| 2. Scirpus atrovirens  | - <del>20</del><br>10           |  | OBL                       | Prevalence Index   |  |  |  |
| 3. Carex vulpinoidea   | - <del>10</del>                 |  | FACW                      | Hydrophytic Vegetation  ✓ 1 - Rapid Test for H                     |  |  |  |
| 4. Populus deltoides   | - <del>10</del>                 |  | FAC FAC                   | 2 - Dominance Tes  | , , ,  |  |  |
| Rumex crispus     Scirpus cyperinus  | - <del>10</del>                 |  | OBL                       | 3 - Prevalence Inde  |  |  |  |
|  |                                 |  | _ OBL                     |  | Adaptations <sup>1</sup> (Provide supporting |  |  |
| 7<br>8   |                                 |  |                           | data in Remarks  | s or on a separate sheet)                    |  |  |
| 9.   |                                 |  |                           | Problematic Hydron   | phytic Vegetation¹ (Explain)                 |  |  |
| 10   |                                 |  |                           |  |  |  |  |
|  |                                 | = Total Co                                   | over                      | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu | l and wetland hydrology must                 |  |  |
| Woody Vine Stratum (Plot size: 30 ft r   |                                 |  |                           | be present, unless disto   | inded of problematic.                        |  |  |
| 1. Vitis riparia   | _ <u>10</u>                     |  | FACW                      | Hydrophytic  |  |  |  |
| 2  |                                 |  |                           | Vegetation Yes   | s No   |  |  |
| Demonstration (Inches of the Control | 10%                             | = Total Co                                   | over                      | 16:  |  |  |  |
| Remarks: (Include photo numbers here or on a separate  | sheet.)                         |  |                           |  |  |  |  |
| Hydrophytic vegetation present.  |                                 |  |                           |  |  |  |  |
|  |                                 |  |                           |  |  |  |  |

SOIL Sampling Point: 1-M

| Profile Desc                 | ription: (Describe         | to the depth                                      | needed to docur        | nent the                 | indicator          | or confirn        | n the absence of i          | indicators.)                            |  |  |  |
|------------------------------|----------------------------|---|------------------------|--------------------------|--------------------|-------------------|-----------------------------|---|--|--|--|
| Depth                        | Matrix                     |   |                        | x Feature                |                    |                   |                             | •                                       |  |  |  |
| (inches)                     | Color (moist)              | %   | Color (moist)          | %                        | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                     | Remarks                                 |  |  |  |
| 0 - 20                       | 10YR 4/1                   | 901   | IOYR 5/6               | 10                       | <u>C</u>           | <u>M</u>          | Silty Clay                  |   |  |  |  |
| -                            |                            |   |                        |                          |                    |                   |                             |   |  |  |  |
|                              |                            |   |                        |                          |                    |                   |                             |   |  |  |  |
|                              |                            |   |                        |                          |                    |                   |                             | _                                       |  |  |  |
| l — -                        |                            |   |                        |                          |                    |                   |                             |   |  |  |  |
| <u> </u>                     |                            |   |                        |                          |                    |                   |                             |   |  |  |  |
|                              |                            |   |                        |                          |                    |                   |                             |   |  |  |  |
| -                            |                            |   |                        |                          |                    |                   |                             |   |  |  |  |
| <sup>1</sup> Type: C=C       | oncentration, D=Dep        | oletion, RM=R                                     | Reduced Matrix, MS     | S=Masked                 | d Sand Gr          | ains.             | <sup>2</sup> Location: P    | L=Pore Lining, M=Matrix.                |  |  |  |
| Hydric Soil                  |                            | ·   |                        |                          |                    |                   |                             | Problematic Hydric Soils <sup>3</sup> : |  |  |  |
| Histosol                     | (A1)                       |   | Sandy 0                | Sleyed Ma                | atrix (S4)         |                   | Coast Pra                   | irie Redox (A16)                        |  |  |  |
| Histic E                     | oipedon (A2)               |   | Sandy F                | Redox (S5                | 5)                 |                   | Dark Surfa                  | ace (S7)                                |  |  |  |
| ı —                          | stic (A3)                  |   |                        | Matrix (                 | ,                  |                   |                             | anese Masses (F12)                      |  |  |  |
|                              | en Sulfide (A4)            |   |                        |                          | neral (F1)         |                   |                             | low Dark Surface (TF12)                 |  |  |  |
|                              | d Layers (A5)<br>uck (A10) |   |                        | eyed M.<br>d Matrix (    | atrix (F2)         |                   | Other (Exp                  | plain in Remarks)                       |  |  |  |
| _                            | d Below Dark Surfac        | · (Δ11)   |                        | u Matrix (<br>Dark Surfa |                    |                   |                             |   |  |  |  |
| ı —                          | ark Surface (A12)          | <i>(</i> , (, (, (, (, (, (, (, (, (, (, (, (, (, | _                      |                          | urface (F7)        | )                 | 3Indicators of              | hydrophytic vegetation and              |  |  |  |
| _                            | flucky Mineral (S1)        |   |                        | Depressio                |                    | ,                 |                             | drology must be present,                |  |  |  |
| 5 cm Mu                      | icky Peat or Peat (S       | 3)  |                        |                          |                    |                   | unless dis                  | turbed or problematic.                  |  |  |  |
| Restrictive                  | Layer (if observed)        | :   |                        |                          |                    |                   |                             |   |  |  |  |
| Type:                        |                            |   | _                      |                          |                    |                   | Hudria Cail Dra             | esent? Yes No                           |  |  |  |
| Depth (in                    | ches):                     |   | _                      |                          |                    |                   | Hydric Soil Pre             | esent? Yes No                           |  |  |  |
| Remarks:                     |                            |   |                        |                          |                    |                   | •                           |   |  |  |  |
| Hydric                       | soil present.              |   |                        |                          |                    |                   |                             |   |  |  |  |
| Tryditc .                    | son present.               |   |                        |                          |                    |                   |                             |   |  |  |  |
|                              |                            |   |                        |                          |                    |                   |                             |   |  |  |  |
|                              |                            |   |                        |                          |                    |                   |                             |   |  |  |  |
| HYDROLO                      | GY                         |   |                        |                          |                    |                   |                             |   |  |  |  |
| Wetland Hy                   | drology Indicators:        | :   |                        |                          |                    |                   |                             |   |  |  |  |
| Primary India                | cators (minimum of o       | one is require                                    | d; check all that ap   | ply)                     |                    |                   | Secondary I                 | ndicators (minimum of two required)     |  |  |  |
| Surface                      | Water (A1)                 |   | ✓ Water-Stall          | ned Leav                 | res (B9)           |                   | Surface                     | Soil Cracks (B6)                        |  |  |  |
| High Wa                      | ater Table (A2)            |   | Aquatic Fa             | iuna (B13                | 3)                 |                   | Drainag                     | ge Patterns (B10)                       |  |  |  |
| Saturation                   | on (A3)                    |   | True Aqua              | tic Plants               | (B14)              |                   | Dry-Season Water Table (C2) |   |  |  |  |
| Water M                      | larks (B1)                 |   | Hydrogen               | Sulfide O                | dor (C1)           |                   | Crayfish                    | n Burrows (C8)                          |  |  |  |
| Sedimer                      | nt Deposits (B2)           |   | Oxidized F             |                          |                    | -                 | (C3) Saturati               | ion Visible on Aerial Imagery (C9)      |  |  |  |
| Drift De                     | posits (B3)                |   | Presence               |                          |                    | ,                 |                             | or Stressed Plants (D1)                 |  |  |  |
|                              | at or Crust (B4)           |   | Recent Iro             |                          |                    | d Soils (C        |                             | rphic Position (D2)                     |  |  |  |
| I — :                        | posits (B5)                |   | Thin Muck              |                          |                    |                   | <u>✓</u> FAC-Ne             | eutral Test (D5)                        |  |  |  |
| ı —                          | on Visible on Aerial       |   |                        |                          |                    |                   |                             |   |  |  |  |
|                              | y Vegetated Concav         | e Surface (B8                                     | B) Other (Exp          | olain in Re              | emarks)            |                   |                             |   |  |  |  |
| Field Obser                  |                            |   | V                      |                          |                    |                   |                             |   |  |  |  |
| Surface Wat                  |                            |   | Depth (inc             |                          |                    |                   |                             |   |  |  |  |
| Water Table                  |                            |   | Depth (in              |                          |                    |                   |                             | .,                                      |  |  |  |
| Saturation P                 |                            | es No   | Depth (in              | ches):                   |                    | _   Wetl          | and Hydrology Pr            | resent? Yes No                          |  |  |  |
| (includes cap<br>Describe Re | corded Data (stream        | n gauge, mon                                      | itoring well, aerial į | ohotos, pr               | revious ins        | spections),       | if available:               |   |  |  |  |
|                              |                            |   |                        |                          |                    |                   |                             |   |  |  |  |
| Remarks:                     |                            |   |                        |                          |                    |                   |                             |   |  |  |  |
| Wetland                      | l hydrology                | present.  |                        |                          |                    |                   |                             |   |  |  |  |
|                              | , 3,                       | ,   |                        |                          |                    |                   |                             |   |  |  |  |
|                              |                            |   |                        |                          |                    |                   |                             |   |  |  |  |

| Project/Site: AEP Fostoria to Lima                   | y/County: Findlay/           | Hancock                            | Sampling Date: 2022-06-30                       |  |
|--|------------------------------|------------------------------------|---|--|
| Applicant/Owner: AEP                                 |                              |                                    | Sampling Point: 1-M UPL                         |  |
| Investigator(s): Beth Hollinden, Chris Davi          | isson Se                     | ection, Township, Rar              | nge: OH01 T2N R11E                              | SN28   |
| Landform (hillslope, terrace, etc.): Hillslope       |                              | Local relief                       | (concave, convex, none):                        | Convex   |
| Slope (%): 2 Lat: 41.098758                          | Lo                           | ng: -83.602157                     |   | Datum: WGS 84  |
| Soil Map Unit Name: PmA                              |                              |                                    | NWI classific                                   | ation: N/A   |
| Are climatic / hydrologic conditions on the site typ | oical for this time of year? |                                    |   |  |
| Are Vegetation, Soil, or Hydrology                   | y significantly dis          | sturbed? Are "                     | Normal Circumstances" p                         | oresent? Yes No  |
| Are Vegetation, Soil, or Hydrology                   | y naturally proble           | ematic? (If ne                     | eded, explain any answei                        | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach s                       | ite map showing s            | ampling point lo                   | ocations, transects                             | , important features, etc.   |
| Hydrophytic Vegetation Present? Yes _                | No                           |                                    |   |  |
| Hydric Soil Present? Yes _                           | No                           | Is the Sampled                     |   | No. V  |
| Wetland Hydrology Present? Yes _ Remarks:            | No                           | within a Wetlan                    | id? Tes   | No   |
|  | 4                            |                                    |   |  |
| Upland point for Wetland 1-N                         | 1.                           |                                    |   |  |
| VEGETATION – Use scientific names of                 |                              |                                    |   |  |
| Tree Stratum (Plot size: 30 ft r                     | Absolute D                   | Dominant Indicator Species? Status | Dominance Test works                            |  |
| 1  |                              |                                    | Number of Dominant Sp<br>That Are OBL, FACW, of |  |
| 2.   |                              |                                    | Total Number of Domina                          | ant  |
| 3  |                              |                                    | Species Across All Stra                         | •  |
| 4  |                              |                                    | Percent of Dominant Sp                          | pecies   |
| 5  |                              | T-1-1 O                            | That Are OBL, FACW, o                           | or FAC: 0 (A/B)  |
| Sapling/Shrub Stratum (Plot size: 15 ft r            | =                            | Total Cover                        | Prevalence Index work                           | ksheet:  |
| 1  |                              |                                    | Total % Cover of:                               |  |
| 2  |                              |                                    |   | x 1 = 0  |
| 3  |                              |                                    | ı   | x = 0<br>x = 0   |
| 4  |                              |                                    | FAC species 0<br>FACU species 100               | $x = \frac{0}{400}$  |
| ö  |                              | Total Cover                        | UPL species 0                                   | x 5 = 0  |
| Herb Stratum (Plot size: 5 ft r )                    |                              |                                    | Column Totals: 100                              | (A) 400 (B)  |
| 1. Festuca rubra                                     | 40                           | FACU                               |   | nu 4.00  |
| 2. Trifolium repens 3. Plantago lanceolata           | <u>40</u>                    | FACU FACU                          | Prevalence Index  Hydrophytic Vegetation        |  |
| 4.   |                              |                                    | 1 - Rapid Test for H                            |  |
| 5  |                              |                                    | 2 - Dominance Tes                               |  |
| 6.   |                              |                                    | 3 - Prevalence Inde                             | ex is ≤3.0 <sup>1</sup>  |
| 7.   |                              |                                    | 4 - Morphological A                             | Adaptations <sup>1</sup> (Provide supporting                       |
| 8  |                              |                                    |   | s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain) |
| 9  |                              |                                    | Problematic Hydrop                              | onytic vegetation (Explain)  |
| 10   |                              |                                    | <sup>1</sup> Indicators of hydric soil          | I and wetland hydrology must                                       |
| Woody Vine Stratum (Plot size: 30 ft r               | )                            | Total Cover                        | be present, unless distu                        |  |
| 1  |                              |                                    | Hydrophytic                                     |  |
| 2  |                              |                                    | Vegetation<br>  Present? Yes                    | s No   |
| Remarks: (Include photo numbers here or on a         |                              | Total Cover                        |   |  |
|  |                              |                                    |   |  |
| Hydrophytic vegetation abse                          | ent.                         |                                    |   |  |
| 1  |                              |                                    |   |  |

SOIL Sampling Point: 1-M UPL

| Profile Desc            | cription: (Describe                             | to the dep   | th needed to docum      | nent the    | indicator         | or confin  | n the absence of i           | ndicators.)                                  |  |  |  |
|-------------------------|---|--------------|-------------------------|-------------|-------------------|------------|------------------------------|--|--|--|--|
| Depth                   | Matrix  |              |                         | x Feature   |                   | . 2        |                              |  |  |  |  |
| (inches)                | Color (moist)                                   |              | Color (moist)           | %           | Type <sup>1</sup> | _Loc²      |                              | Remarks                                      |  |  |  |
| 0 - 20                  | 10YR 4/1  | 95           | 10YR 5/6                | 5           | _ <u>C</u>        | <u>M</u>   | Silty Clay                   |  |  |  |  |
|                         |   |              |                         |             |                   |            |                              |  |  |  |  |
| -                       |   |              |                         |             |                   |            |                              |  |  |  |  |
|                         |   |              |                         |             |                   |            |                              |  |  |  |  |
|                         |   |              |                         |             |                   |            |                              |  |  |  |  |
|                         |   |              |                         |             |                   |            |                              |  |  |  |  |
|                         |   |              |                         |             |                   |            |                              |  |  |  |  |
|                         |   |              |                         |             |                   |            |                              |  |  |  |  |
|                         |   | oletion, RM= | Reduced Matrix, MS      | S=Maske     | d Sand Gr         | ains.      |                              | L=Pore Lining, M=Matrix.                     |  |  |  |
| Hydric Soil             | Indicators:                                     |              |                         |             |                   |            |                              | Problematic Hydric Soils <sup>3</sup> :      |  |  |  |
| Histosol                |   |              |                         | -           | atrix (S4)        |            | _                            | irie Redox (A16)                             |  |  |  |
| . —                     | pipedon (A2)                                    |              |                         | Redox (St   | -                 |            | Dark Surfa                   | • •  |  |  |  |
| ı —                     | istic (A3)<br>en Sulfide (A4)                   |              |                         | l Matrix (  | neral (F1)        |            |                              | anese Masses (F12)<br>ow Dark Surface (TF12) |  |  |  |
|                         | d Layers (A5)                                   |              |                         | -           | atrix (F2)        |            |                              | plain in Remarks)                            |  |  |  |
|                         | uck (A10)                                       |              | ✓ Deplete               |             |                   |            |                              | Jan III (Gillante)                           |  |  |  |
| ı —                     | d Below Dark Surfac                             | e (A11)      |                         | Dark Surf   | . ,               |            |                              |  |  |  |  |
| Thick Da                | ark Surface (A12)                               |              |                         |             | urface (F7        | )          | <sup>3</sup> Indicators of I | hydrophytic vegetation and                   |  |  |  |
|                         | Sandy Mucky Mineral (S1) Redox Depressions (F8) |              |                         |             |                   | •          | drology must be present,     |  |  |  |  |
|                         | ucky Peat or Peat (S                            | -            |                         |             |                   |            | unless disf                  | turbed or problematic.                       |  |  |  |
|                         | Layer (if observed)                             |              |                         |             |                   |            |                              |  |  |  |  |
|                         | ah aa ):  |              |                         |             |                   |            | Hydric Soil Pre              | esent? Yes No                                |  |  |  |
| Remarks:                | ches):  |              |                         |             |                   |            |                              |  |  |  |  |
| Hydric                  | soil present.                                   |              |                         |             |                   |            |                              |  |  |  |  |
| HYDROLO                 | GY  |              |                         |             |                   |            |                              |  |  |  |  |
| Wetland Hy              | drology Indicators                              | :            |                         |             |                   |            |                              |  |  |  |  |
| Primary India           | cators (minimum of                              | one is requi | ed; check all that ap   | ply)        |                   |            | Secondary I                  | ndicators (minimum of two required)          |  |  |  |
| Surface                 | Water (A1)                                      |              | Water-Stai              | ned Leav    | /es (B9)          |            | Surface                      | Soil Cracks (B6)                             |  |  |  |
| High Wa                 | ater Table (A2)                                 |              | Aquatic Fa              | iuna (B13   | 3)                |            | Drainage Patterns (B10)      |  |  |  |  |
| Saturation              | on (A3)   |              | True Aqua               | tic Plants  | (B14)             |            | Dry-Season Water Table (C2)  |  |  |  |  |
| Water M                 | larks (B1)                                      |              | Hydrogen                | Sulfide O   | dor (C1)          |            | Crayfish                     | Burrows (C8)                                 |  |  |  |
|                         | nt Deposits (B2)                                |              | Oxidized F              | Rhizosphe   | eres on Liv       | ing Roots  | (C3) Saturati                | on Visible on Aerial Imagery (C9)            |  |  |  |
| —                       | posits (B3)                                     |              | Presence                |             |                   |            |                              | or Stressed Plants (D1)                      |  |  |  |
|                         | at or Crust (B4)                                |              | Recent Iro              |             |                   | d Soils (C |                              | rphic Position (D2)                          |  |  |  |
| '                       | posits (B5)                                     |              | Thin Muck               |             |                   |            | FAC-Ne                       | eutral Test (D5)                             |  |  |  |
| l —                     | on Visible on Aerial                            | • • •        | ·                       |             |                   |            |                              |  |  |  |  |
| Field Obser             | y Vegetated Concav                              | e Surrace (I | 38) Other (Exp          | olain in Re | emarks)           |            |                              |  |  |  |  |
|                         |   | /aa          | No Depth (inc           | abaa):      |                   |            |                              |  |  |  |  |
| Surface Wat Water Table |   |              | No Depth (inc           |             |                   |            |                              |  |  |  |  |
| Saturation P            |   |              | No Depth (inc           |             |                   |            | land Hydrology Pr            | resent? Yes No                               |  |  |  |
| (includes cap           | pillary fringe)                                 |              |                         |             |                   |            |                              | esent: 1es No                                |  |  |  |
| Describe Re             | corded Data (strean                             | n gauge, mo  | nitoring well, aerial p | ohotos, p   | revious ins       | spections) | , if available:              |  |  |  |  |
| Remarks:                |   |              |                         |             |                   |            |                              |  |  |  |  |
| Wetland                 | hydrology                                       | ahsant       |                         |             |                   |            |                              |  |  |  |  |
| vvetiant                | i ilyulology                                    | absent       | •                       |             |                   |            |                              |  |  |  |  |
|                         |   |              |                         |             |                   |            |                              |  |  |  |  |

| Project/Site: AEP Fostoria to Lima                                | c             | ity/County       | Findlay/            | Hancock  | Sampling Date: 2022-06-30  |  |
|---|---------------|------------------|---------------------|--|--|--|
| Applicant/Owner: AEP  |               | State: Ohio      | Sampling Point: 1-N |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   |               | Section, To      | wnship, Rar         | nge: OH01 T2N R11E S                               | SN29   |  |
|   |               |                  |                     | relief (concave, convex, none): Concave            |  |  |
| Slope (%): 1 Lat: 41.095686                                       | L             | .ong: <u>-83</u> | .612714             |  | Datum: WGS 84  |  |
| Soil Map Unit Name: PmA   |               |                  |                     | NWI classifica                                     | ation: N/A   |  |
| Are climatic / hydrologic conditions on the site typical for this | time of yea   | r? Yes           | No                  | (If no, explain in Re                              | emarks.)   |  |
| Are Vegetation, Soil, or Hydrology sig                            | gnificantly d | isturbed?        | Are "               | Normal Circumstances" pr                           | resent? Yes No   |  |
| Are Vegetation, Soil, or Hydrology na                             | iturally prob | lematic?         | (If ne              | eded, explain any answer                           | s in Remarks.)   |  |
| SUMMARY OF FINDINGS - Attach site map s                           | howing        | samplin          | g point lo          | ocations, transects,                               | important features, etc.   |  |
| Hydrophytic Vegetation Present? Yes No                            |               |                  |                     |  |  |  |
| Hydric Soil Present? Yes No                                       |               |                  | e Sampled           |  |  |  |
| Wetland Hydrology Present? Yes <u>✓</u> No                        |               | with             | in a Wetlan         | id? Yes  | No   |  |
| Remarks:  |               |                  |                     |  |  |  |
| PEM. ORAM score of 31.  |               |                  |                     |  |  |  |
| VEGETATION – Use scientific names of plants.                      |               |                  |                     |  |  |  |
|   | Absolute      | Dominant         | Indicator           | Dominance Test works                               | sheet:   |  |
|   | % Cover       |                  |                     | Number of Dominant Sp<br>That Are OBL, FACW, o     |  |  |
| 1   |               |                  |                     |  |  |  |
| 3   |               |                  |                     | Total Number of Domina<br>Species Across All Strat |  |  |
| 4.  |               |                  |                     |  |  |  |
| 5   |               |                  |                     | Percent of Dominant Sp<br>That Are OBL, FACW, o    |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       | =             | = Total Cov      | /er                 | Prevalence Index work                              | sheet:   |  |
| 1   |               |                  |                     | Total % Cover of:                                  |  |  |
| 2.  |               |                  |                     | OBL species 20                                     | x 1 = 20   |  |
| 3   |               |                  |                     | FACW species 60                                    | x 2 = 120  |  |
| 4   |               |                  |                     |  | x 3 = <u>0</u>   |  |
| 5   |               |                  |                     | FACU species 0                                     | x 4 = <u>0</u>   |  |
| 5 ft r  | =             | Total Cov        | /er                 | UPL species 0                                      | x 5 = 0  |  |
| Herb Stratum (Plot size: 5 ft r )  1. Carex vulpinoidea           | 20            | V                | FACW                | Column Totals: 80                                  | (A) <u>140</u> (B)   |  |
| 2 Phalaris arundinacea  | 20            |                  | FACW                | Prevalence Index                                   | = B/A = 1.75   |  |
| 3. Carex grayi  | 10            |                  | FACW                | Hydrophytic Vegetatio                              |  |  |
| 4. Carex lupulina   | 10            |                  | OBL                 | ✓ 1 - Rapid Test for H                             | ydrophytic Vegetation  |  |
| 5. Carex stipata  | 10            |                  | OBL                 | 2 - Dominance Test                                 | is >50%  |  |
| 6   |               |                  |                     | 3 - Prevalence Inde                                |  |  |
| 7   |               |                  |                     | 4 - Morphological A                                | daptations <sup>1</sup> (Provide supporting<br>or on a separate sheet) |  |
| 8   |               |                  |                     |  | phytic Vegetation <sup>1</sup> (Explain)                               |  |
| 9   |               |                  |                     |  | (,,  |  |
| 10  | 70% =         | Total Cov        |                     |  | and wetland hydrology must   |  |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 7070          | - Total Cov      | /er                 | be present, unless distu                           | rbed or problematic.   |  |
| 1. Vitis riparia  | 10            |                  | FACW                | Hydrophytic  |  |  |
| 2   |               |                  |                     | Vegetation   | s No   |  |
|   |               | Total Cov        | /er                 | Present? Yes                                       | , NO   |  |
| Remarks: (Include photo numbers here or on a separate sh          | neet.)        |                  |                     |  |  |  |
| Hydrophytic vegetation present.                                   |               |                  |                     |  |  |  |
|   |               |                  |                     |  |  |  |

SOIL Sampling Point: 1-N

| Profile Desc           | ription: (Describe                         | to the dept    | h needed to docur     | nent the    | indicator          | or confir         | n the absence of ir        | ndicators.)                                       |  |  |  |
|------------------------|--|----------------|-----------------------|-------------|--------------------|-------------------|----------------------------|---|--|--|--|
| Depth                  | Matrix                                     |                |                       | x Feature   |                    |                   |                            | •   |  |  |  |
| (inches)               | Color (moist)                              | %              | Color (moist)         | %           | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                    | Remarks   |  |  |  |
| 0-20_                  | 10YR 3/1                                   | 95             | 10YR 5/6              | 5           | С                  | <u>M</u>          | Silty Clay                 |   |  |  |  |
| -                      |  |                |                       |             |                    |                   |                            |   |  |  |  |
|                        |  |                |                       |             |                    |                   |                            |   |  |  |  |
|                        |  |                |                       |             |                    |                   |                            |   |  |  |  |
|                        |  |                |                       |             |                    |                   |                            |   |  |  |  |
|                        |  |                |                       |             |                    |                   |                            |   |  |  |  |
| -                      |  |                |                       |             |                    |                   |                            |   |  |  |  |
|                        |  |                |                       |             |                    |                   |                            |   |  |  |  |
| 1 <sub>Type:</sub> C=C | oncentration, D=Dep                        | olotion PM-    | Paduood Matrix M      | S-Maska     | d Sand Gr          | nine              | 2l coation: Pl             | .=Pore Lining, M=Matrix.                          |  |  |  |
| Hydric Soil            |  | DIELION, KIVI- | Reduced Matrix, Mi    | 3-IVIASKE   | u Sanu Gi          | allis.            |                            | Problematic Hydric Soils <sup>3</sup> :           |  |  |  |
| Histosol               |  |                | Sandy (               | Sleved M    | atrix (S4)         |                   |                            | rie Redox (A16)                                   |  |  |  |
| _                      | oipedon (A2)                               |                |                       | Redox (St   |                    |                   | Dark Surfac                |   |  |  |  |
| Black Hi               |  |                |                       | d Matrix (  | -                  |                   |                            | anese Masses (F12)                                |  |  |  |
| ı —                    | n Sulfide (A4)                             |                |                       |             | neral (F1)         |                   |                            | ow Dark Surface (TF12)                            |  |  |  |
| Stratified             | d Layers (A5)                              |                | Loamy                 | Gleyed M    | atrix (F2)         |                   | Other (Explain in Remarks) |   |  |  |  |
| ı —                    | ıck (A10)                                  |                |                       | d Matrix (  |                    |                   |                            |   |  |  |  |
|                        | d Below Dark Surfac                        | ce (A11)       | _                     | Dark Surf   | , ,                |                   | 3                          |   |  |  |  |
| _                      | ark Surface (A12)                          |                |                       |             | urface (F7         | )                 |                            | ydrophytic vegetation and                         |  |  |  |
| . —                    | lucky Mineral (S1)<br>icky Peat or Peat (S | 23)            | Redox I               | Depressio   | ons (F8)           |                   |                            | drology must be present,<br>urbed or problematic. |  |  |  |
|                        | Layer (if observed)                        |                |                       |             |                    |                   | unless disti               | urbed of problematic.                             |  |  |  |
| Type:                  | Layer (ii observed)                        |                |                       |             |                    |                   |                            |   |  |  |  |
| ''                     | ches):                                     |                | _                     |             |                    |                   | Hydric Soil Pres           | sent? Yes No                                      |  |  |  |
|                        |  |                | _                     |             |                    |                   |                            |   |  |  |  |
| Remarks:               |  |                |                       |             |                    |                   |                            |   |  |  |  |
| Hydric                 | soil present.                              |                |                       |             |                    |                   |                            |   |  |  |  |
|                        | •  |                |                       |             |                    |                   |                            |   |  |  |  |
|                        |  |                |                       |             |                    |                   |                            |   |  |  |  |
| LIVEROLO               | CV .                                       |                |                       |             |                    |                   |                            |   |  |  |  |
| HYDROLO                |  | _              |                       |             |                    |                   |                            |   |  |  |  |
| 1                      | drology Indicators                         |                |                       |             |                    |                   |                            |   |  |  |  |
|                        | cators (minimum of o                       | one is require |                       |             |                    |                   |                            | dicators (minimum of two required)                |  |  |  |
|                        | Water (A1)                                 |                | ✓ Water-Sta           |             |                    |                   |                            | Soil Cracks (B6)                                  |  |  |  |
|                        | iter Table (A2)                            |                | Aquatic Fa            | ,           | ,                  |                   | _                          | e Patterns (B10)                                  |  |  |  |
| Saturation             | , ,  |                | True Aqua             |             | , ,                |                   | _ ′                        | son Water Table (C2)                              |  |  |  |
|                        | arks (B1)                                  |                | Hydrogen              |             | , ,                |                   |                            | Burrows (C8)                                      |  |  |  |
|                        | nt Deposits (B2)                           |                | Oxidized F            |             |                    | •                 | —                          | on Visible on Aerial Imagery (C9)                 |  |  |  |
| ı —                    | posits (B3)                                |                | Presence              |             |                    | ,                 |                            | or Stressed Plants (D1)                           |  |  |  |
|                        | at or Crust (B4)                           |                | Recent Iro            |             |                    | a Solis (C        | . —                        | phic Position (D2)                                |  |  |  |
| — :                    | oosits (B5)                                | l (D7          | Thin Muck             |             |                    |                   | FAC-Net                    | utral Test (D5)                                   |  |  |  |
| ı —                    | on Visible on Aerial                       |                |                       |             |                    |                   |                            |   |  |  |  |
|                        | Vegetated Concav                           | e Surrace (B   | 8) Other (Exp         | Diain in Re | emarks)            |                   |                            |   |  |  |  |
| Field Obser            |  |                | · / 5                 | -1          |                    |                   |                            |   |  |  |  |
| Surface Wate           |  |                | lo Depth (in          |             |                    |                   |                            |   |  |  |  |
| Water Table            |  |                | lo Depth (in          |             |                    |                   |                            |   |  |  |  |
| Saturation P           |  | /es N          | lo Depth (in          | ches):      |                    | Wet               | land Hydrology Pre         | esent? Yes No                                     |  |  |  |
|                        | corded Data (strean                        | n gauge, mor   | nitoring well, aerial | photos, p   | revious ins        | spections).       | , if available:            |   |  |  |  |
|                        | •  |                |                       |             |                    |                   |                            |   |  |  |  |
| Remarks:               |  |                |                       |             |                    |                   |                            |   |  |  |  |
| Motions                | l bydrology                                | nracant        |                       |             |                    |                   |                            |   |  |  |  |
| vvetiano               | l hydrology                                | present        | •                     |             |                    |                   |                            |   |  |  |  |
|                        |  |                |                       |             |                    |                   |                            |   |  |  |  |
| I                      |  |                |                       |             |                    |                   |                            |   |  |  |  |

| Project/Site: AEP Fostoria to Lima                             | (                   | City/Co                                 | ounty: | Findlay/            | /Hancock Sampling Date: 2022-06-30  |  |  |  |
|--|---------------------|---|--------|---------------------|---|--|--|--|
| Applicant/Owner: AEP   |                     | State: Ohio Sampling Point: 1-N/O/P UPL |        |                     |   |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                |                     | Sectio                                  | n, Tov | vnship, Rar         | Range: OH01 T2N R11E SN29   |  |  |  |
| Landform (hillslope, terrace, etc.): Hillslope                 |                     |   | L      | ocal relief (       | (concave, convex, none): Convex   |  |  |  |
| Slope (%): 1 Lat: 41.095401                                    | ι                   | _ong:                                   | -83.   | 613297              | Datum: WGS 84   |  |  |  |
| Soil Map Unit Name: PmA  |                     |   |        |                     | NWI classification: N/A   |  |  |  |
| Are climatic / hydrologic conditions on the site typical for t | his time of yea     | ar? Ye                                  | es     | No _                | (If no, explain in Remarks.)  |  |  |  |
| Are Vegetation, Soil, or Hydrology                             | _significantly      | disturb                                 | ed?    | Are "               | "Normal Circumstances" present? Yes No  |  |  |  |
| Are Vegetation, Soil, or Hydrology                             | naturally prob      | olema                                   | tic?   | (If ne              | eeded, explain any answers in Remarks.)   |  |  |  |
| SUMMARY OF FINDINGS - Attach site map                          | showing             | sam                                     | pling  | point k             | ocations, transects, important features, etc.   |  |  |  |
| Hydrophytic Vegetation Present? Yes                            | No                  |   |        |                     |   |  |  |  |
| Hydric Soil Present? Yes                                       | No                  |   |        | Sampled             |   |  |  |  |
| Wetland Hydrology Present? Yes                                 | No                  |   | withi  | n a Wetlan          | nd? Yes No  |  |  |  |
| Remarks:   |                     |   |        |                     |   |  |  |  |
| Upland sample point for Wetland                                | 1-N, Wet            | land                                    | d 1-   | O, and              | l Wetland 1-P.  |  |  |  |
| VEGETATION . He a significant and a least                      | _                   |   |        |                     |   |  |  |  |
| VEGETATION – Use scientific names of plant                     |                     | Dam                                     | inant  | Indicator           | Dominance Test worksheet:   |  |  |  |
| Tree Stratum (Plot size:30 ft r)                               | Absolute<br>% Cover |   |        | Indicator<br>Status | Number of Dominant Species  |  |  |  |
| 1  |                     |   |        |                     | That Are OBL, FACW, or FAC: 2 (A)   |  |  |  |
| 2  |                     |   |        |                     | Total Number of Dominant  |  |  |  |
| 3  |                     |   |        |                     | Species Across All Strata: 2 (B)  |  |  |  |
| 4  |                     |   |        |                     | Percent of Dominant Species   |  |  |  |
| 5  |                     | - Tota                                  | ol Cov |                     | That Are OBL, FACW, or FAC: 100 (A/B)   |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                    |                     | - 1018                                  | ai 00v | 51                  | Prevalence Index worksheet:   |  |  |  |
| 1  |                     |   |        |                     | Total % Cover of: Multiply by:  |  |  |  |
| 2  |                     |   |        |                     | OBL species $0 \times 1 = 0$  |  |  |  |
| 3  |                     |   |        |                     | FACW species $\frac{70}{20}$ $x = \frac{140}{60}$   |  |  |  |
| 4  |                     |   |        |                     | FAC species $20$ $x 3 = 60$<br>FACU species $10$ $x 4 = 40$   |  |  |  |
| 5  |                     | <br>= Tota                              | al Cov |                     | UPL species 0 x 5 = 0   |  |  |  |
| Herb Stratum (Plot size: 5 ft r )                              |                     |   |        |                     | Column Totals: 100 (A) 240 (B)  |  |  |  |
| 1. Phalaris arundinacea  | $-\frac{70}{22}$    |   |        | FACW                |   |  |  |  |
| 2. Apocynum cannabinum   | $-\frac{20}{10}$    |   | _      | FAC                 | Prevalence Index = B/A = 2.40   |  |  |  |
| 3. Solidago canadensis   |                     |   |        | FACU_               | Hydrophytic Vegetation Indicators:  |  |  |  |
| 4  |                     |   |        |                     | 1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%   |  |  |  |
| 5<br>6   |                     |   |        |                     | 3 - Prevalence Index is ≤3.0¹   |  |  |  |
| 7  |                     |   |        |                     | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting  |  |  |  |
| 8  |                     |   |        |                     | data in Remarks or on a separate sheet)   |  |  |  |
| 9  |                     |   |        |                     | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |  |  |  |
| 10   |                     |   |        |                     | The disease of booking will and contland booking over   |  |  |  |
| 30 ft r  | 100%_               | = Tota                                  | al Cov | er                  | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic. |  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                       |                     |   |        |                     |   |  |  |  |
| 1<br>2   |                     |   |        |                     | Hydrophytic<br>Vegetation   |  |  |  |
|  |                     |   |        |                     | Present? Yes No   |  |  |  |
| Remarks: (Include photo numbers here or on a separat           |                     |   |        |                     | 1   |  |  |  |
| Hydrophytic vegetation present.                                |                     |   |        |                     |   |  |  |  |
| , and a supplemental processing                                |                     |   |        |                     |   |  |  |  |
| 1  |                     |   |        |                     |   |  |  |  |

SOIL Sampling Point: 1-N/O/P UPL

| Profile Des  | cription: (Describe                         | to the dep     | oth needed to docu        | ment the  | indicator           | or confirm          | n the absence of indicators.)                     |               |  |  |  |
|--------------|---|----------------|---------------------------|---|---------------------|---------------------|---|---------------|--|--|--|
| Depth        | Matrix                                      |                | Redo                      | x Feature   | es                  |                     |   |               |  |  |  |
| (inches)     | Color (moist)                               | %              | Color (moist)             | %   | Type <sup>1</sup> _ | _Loc <sup>2</sup> _ | Texture Remarks                                   |               |  |  |  |
| 0-6          | 10YR 4/1                                    | _ <u>100</u> _ |                           |   |                     |                     | Silty Clay  |               |  |  |  |
| 6-9          | 10YR 4/1                                    | <u>95</u>      | 10YR 5/6                  | 5   | <u> </u>            | <u>M</u>            | Silty Clay  |               |  |  |  |
| -            |   |                |                           |   |                     |                     |   |               |  |  |  |
| _            |   |                |                           |   |                     |                     |   |               |  |  |  |
|              |   |                |                           |   |                     |                     |   |               |  |  |  |
|              |   |                |                           |   |                     |                     |   |               |  |  |  |
| <u> </u>     |   |                |                           |   |                     |                     |   |               |  |  |  |
|              |   |                |                           |   |                     |                     |   |               |  |  |  |
|              |   | pletion, RM    | =Reduced Matrix, M        | S=Maske   | d Sand Gr           | ains.               | <sup>2</sup> Location: PL=Pore Lining, M=Mat      |               |  |  |  |
| Hydric Soil  |   |                |                           |   |                     |                     | Indicators for Problematic Hydric                 | Soils*:       |  |  |  |
| Histosol     | , ,   |                |                           | -   | atrix (S4)          |                     | Coast Prairie Redox (A16)                         |               |  |  |  |
| ı —          | pipedon (A2)<br>istic (A3)                  |                |                           | Redox (S<br>d Matrix (  | •                   |                     | Dark Surface (S7) Iron-Manganese Masses (F12)     |               |  |  |  |
| ı —          | en Sulfide (A4)                             |                |                           |   | ineral (F1)         |                     | Very Shallow Dark Surface (TF1                    | 2)            |  |  |  |
|              | d Layers (A5)                               |                |                           |   | latrix (F2)         |                     | Other (Explain in Remarks)                        | _,            |  |  |  |
| 2 cm Mi      | uck (A10)                                   |                | Deplete                   | ed Matrix   | (F3)                |                     |   |               |  |  |  |
| ı — ·        | d Below Dark Surfa                          | ce (A11)       | _                         | Dark Surf   | , ,                 |                     | 2   |               |  |  |  |
| _            | ark Surface (A12)                           |                |                           | ed Dark S<br>Depressio  | urface (F7)         | )                   | <sup>3</sup> Indicators of hydrophytic vegetation |               |  |  |  |
|              | Mucky Mineral (S1)<br>ucky Peat or Peat (\$ | 33)            |                           | wetland hydrology must be prese<br>unless disturbed or problematic. | ent,                |                     |   |               |  |  |  |
|              | Layer (if observed                          |                |                           |   |                     |                     | unless disturbed of problematic.                  |               |  |  |  |
| Type: G      |   | ,-             |                           |   |                     |                     |   |               |  |  |  |
|              | ches): 9                                    |                |                           |   |                     |                     | Hydric Soil Present? Yes                          | No            |  |  |  |
| Remarks:     |   |                |                           |   |                     |                     |   |               |  |  |  |
| Hydric       | soil absent.                                |                |                           |   |                     |                     |   |               |  |  |  |
| HYDROLO      | GY  |                |                           |   |                     |                     |   |               |  |  |  |
| Wetland Hy   | drology Indicators                          | <b>:</b>       |                           |   |                     |                     |   |               |  |  |  |
| Primary Indi | cators (minimum of                          | one is requ    | ired; check all that a    | oply)   |                     |                     | Secondary Indicators (minimum of                  | two required) |  |  |  |
| Surface      | Water (A1)                                  |                | Water-Sta                 | ined Lea  | ves (B9)            |                     | Surface Soil Cracks (B6)                          |               |  |  |  |
| High Wa      | ater Table (A2)                             |                | Aquatic Fa                | auna (B13   | 3)                  |                     | Drainage Patterns (B10)                           |               |  |  |  |
| Saturati     | , ,   |                | True Aqua                 |   | , ,                 |                     | Dry-Season Water Table (C2)                       |               |  |  |  |
|              | /larks (B1)                                 |                | Hydrogen                  |   |                     |                     | Crayfish Burrows (C8)                             |               |  |  |  |
| ı —          | nt Deposits (B2)                            |                |                           |   | eres on Liv         | -                   | · · —   |               |  |  |  |
| ı —          | posits (B3)                                 |                | _                         |   | ed Iron (C          | ,                   | Stunted or Stressed Plants (D1)                   |               |  |  |  |
| -            | at or Crust (B4)                            |                | Recent Iro                |   |                     | a Solis (Ci         |   |               |  |  |  |
| I — ·        | posits (B5)<br>ion Visible on Aerial        | Imagery (F     | Thin Muck<br>37) Gauge or |   |                     |                     | ✓ FAC-Neutral Test (D5)                           |               |  |  |  |
| ı —          | y Vegetated Conca                           |                | <i>,</i> —                |   | , ,                 |                     |   |               |  |  |  |
| Field Obser  |   | ve canace i    |                           | pidiii ii i i   | - Indino,           |                     |   |               |  |  |  |
| Surface Wat  |   | Yes            | No Depth (in              | ches):  |                     |                     |   |               |  |  |  |
| Water Table  |   |                | No Depth (in              |   |                     |                     |   |               |  |  |  |
| Saturation P |   |                | No Depth (in              |   |                     |                     | land Hydrology Present? Yes                       | No 🗸          |  |  |  |
| (includes ca | pillary fringe)                             |                |                           |   |                     |                     |   |               |  |  |  |
| Describe Re  | corded Data (strear                         | n gauge, m     | onitoring well, aerial    | photos, p   | revious ins         | pections),          | if available:                                     |               |  |  |  |
| Remarks:     |   |                |                           |   |                     |                     |   |               |  |  |  |
| Wetland      | d hydrology                                 | ahsent         |                           |   |                     |                     |   |               |  |  |  |
| ** Cliail    | a riyarology                                | abscill        | ••                        |   |                     |                     |   |               |  |  |  |
|              |   |                |                           |   |                     |                     |   |               |  |  |  |

| Project/Site: AEP Fostoria to Lima                                | c                | City/Count                      | <sub>ty:</sub>           | Hancock  | Sampling Date: 2022-06-30                             |
|---|------------------|---------------------------------|--------------------------|--|---|
| Applicant/Owner: AEP  |                  | State: Ohio Sampling Point: 1-O |                          |  |   |
| Investigator(s): Beth Hollinden, Chris Davisson                   | {                | Section, T                      | ownship, Rar             | nge: OH01 T2N R11E   | SN29  |
|   |                  |                                 |                          | (concave, convex, none):   |   |
| Slope (%): 1 Lat: 41.095571                                       | ι                | _ong:8:                         | 3.613271                 |  | Datum: WGS 84   |
| Soil Map Unit Name: PmA   |                  |                                 |                          | NWI classification   | ation: N/A  |
| Are climatic / hydrologic conditions on the site typical for this | time of yea      | r? Yes _                        | ✓ No_                    | (If no, explain in Re  | emarks.)  |
| Are Vegetation, Soil, or Hydrology signature.                     | gnificantly o    | disturbed?                      | Are "                    | Normal Circumstances" p  | oresent? Yes No                                       |
| Are Vegetation, Soil, or Hydrology na                             | aturally prob    | olematic?                       | (If ne                   | eded, explain any answer   | rs in Remarks.)                                       |
| SUMMARY OF FINDINGS - Attach site map s                           | howing           | samplii                         | ng point lo              | ocations, transects  | , important features, etc.                            |
| Hydrophytic Vegetation Present? Yes No                            |                  |                                 |                          | _  |   |
| Hydric Soil Present? Yes No                                       |                  |                                 | he Sampled               |  | N-  |
| Wetland Hydrology Present? Yes <u>✓</u> No                        |                  | Wit                             | hin a Wetlan             | d? Yes   | No  |
| Remarks:  |                  |                                 |                          |  |   |
| PEM. ORAM score of 31.  |                  |                                 |                          |  |   |
| <b>VEGETATION</b> – Use scientific names of plants.               |                  |                                 |                          |  |   |
| Tree Stratum (Plot size: 30 ft r )                                | Absolute % Cover |                                 | nt Indicator<br>? Status | Dominance Test works   |   |
| 1   |                  |                                 |                          | Number of Dominant Sp<br>That Are OBL, FACW, o                         |   |
| 2   |                  |                                 |                          | Total Number of Domina   |   |
| 3   |                  |                                 |                          | Species Across All Strat   | ta: <u>3</u> (B)                                      |
| 4   |                  |                                 |                          | Percent of Dominant Sp   |   |
| 5   |                  | = Total Co                      | over                     | That Are OBL, FACW, o  | or FAC: 100 (A/B)                                     |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                  |                                 |                          | Prevalence Index work  |   |
| · · · · · · · · · · · · · · · · · · ·                             | 10               |                                 | OBL                      | Total % Cover of:  |   |
| 2   |                  |                                 |                          |  | $x 1 = \frac{30}{140}$                                |
| 3   |                  |                                 |                          |  | x 3 = 0   |
| 4   |                  |                                 |                          |  | $\times 4 = 0$  |
| 5   | 10%              | = Total Co                      | over                     | UPL species 0  |   |
| Herb Stratum (Plot size: 5 ft r )                                 |                  |                                 |                          | Column Totals: 100   | (A) 170 (B)   |
| 1. Phalaris arundinacea   | 40               |                                 | FACW                     |  |   |
| 2. Carex vulpinoidea  | <del>20</del> 10 |                                 | FACW                     | Prevalence Index   |   |
| 3. Carex grayi  | 10               |                                 | FACW                     | <ul><li>Hydrophytic Vegetatio</li><li>✓ 1 - Rapid Test for H</li></ul> |   |
| 4. Carex lupulina   | 10               |                                 | OBL OBL                  | ✓ 2 - Dominance Test   | , , , ,   |
| 5. Carex stipata  |                  |                                 | _ UBL                    | 3 - Prevalence Inde  |   |
| 6   |                  |                                 |                          |  | Adaptations <sup>1</sup> (Provide supporting          |
| 7<br>8  |                  |                                 |                          | data in Remarks  | s or on a separate sheet)                             |
| 9   |                  |                                 |                          | Problematic Hydrop   | ohytic Vegetation <sup>1</sup> (Explain)              |
| 10  |                  |                                 |                          | 1  |   |
| 30 ft r   | 90%              | = Total Co                      | over                     | Indicators of hydric soil be present, unless distu                     | I and wetland hydrology must<br>urbed or problematic. |
| Woody Vine Stratum (Plot size: 30 ft r )                          |                  |                                 |                          |  |   |
| 1   |                  |                                 |                          | Hydrophytic Vegetation   |   |
| 2   |                  | = Total Co                      | over                     | Present? Yes   | s No  |
| Remarks: (Include photo numbers here or on a separate sl          |                  |                                 |                          |  |   |
| Hydrophytic vegetation present.                                   |                  |                                 |                          |  |   |
|   |                  |                                 |                          |  |   |
|   |                  |                                 |                          |  | 1   |

SOIL Sampling Point: 1-0

| Project/Site: AEP Fostoria to Lima                                | 0                   | City/Coun                       | <sub>ity:</sub> Findlay/ | Hancock  | Sampling Date: 2022-06-30  |  |  |
|---|---------------------|---------------------------------|--------------------------|--|--|--|--|
| Applicant/Owner: AEP  |                     | State: Ohio Sampling Point: 1-P |                          |  |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   | 8                   | Section, 7                      | Township, Rar            | ange: OH01 T2N R11E SN29                       |  |  |  |
|   |                     |                                 |                          | (concave, convex, none):                       |  |  |  |
| Slope (%): 1 Lat: 41.095338                                       | ı                   | _ong:8                          | 3.613719                 |  | Datum: WGS 84  |  |  |
| Soil Map Unit Name: PmA   |                     |                                 |                          | NWI classific                                  | ation: N/A   |  |  |
| Are climatic / hydrologic conditions on the site typical for this | time of yea         | r? Yes_                         |                          |  |  |  |  |
| Are Vegetation, Soil, or Hydrology sig                            | nificantly o        | disturbed                       | ? Are "I                 | Normal Circumstances" p                        | oresent? Yes No  |  |  |
| Are Vegetation, Soil, or Hydrology na                             | turally prob        | olematic?                       | (If ne                   | eded, explain any answer                       | rs in Remarks.)  |  |  |
| SUMMARY OF FINDINGS - Attach site map s                           | howing              | sampli                          | ing point lo             | ocations, transects                            | , important features, etc.   |  |  |
| Hydrophytic Vegetation Present? Yes No                            |                     |                                 |                          |  |  |  |  |
| Hydric Soil Present? Yes No                                       |                     |                                 | the Sampled              |  | N-   |  |  |
| Wetland Hydrology Present? Yes   ✓ No                             |                     | WI                              | thin a Wetlan            | d? Yes   | No   |  |  |
| Remarks:  |                     |                                 |                          |  |  |  |  |
| PEM. ORAM score of 30.  |                     |                                 |                          |  |  |  |  |
| <b>VEGETATION</b> – Use scientific names of plants.               |                     |                                 |                          |  |  |  |  |
| 20 ft "   | Absolute<br>% Cover |                                 | nt Indicator<br>? Status | Dominance Test works                           |  |  |  |
| 1   |                     |                                 |                          | Number of Dominant Sp<br>That Are OBL, FACW, o |  |  |  |
| 2   |                     |                                 |                          | Total Number of Domina                         | ant  |  |  |
| 3   |                     |                                 |                          | Species Across All Strat                       | •  |  |  |
| 4   |                     |                                 |                          | Percent of Dominant Sp                         | pecies   |  |  |
| 5   |                     |                                 |                          | That Are OBL, FACW, o                          | or FAC: 100 (A/B)  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       | ·                   | = Total C                       | over                     | Prevalence Index work                          | ksheet:  |  |  |
| 1. Cephalanthus occidentalis                                      | 10                  |                                 | OBL                      | Total % Cover of:                              |  |  |  |
| 2   |                     |                                 |                          |  | x 1 = 30   |  |  |
| 3   |                     |                                 |                          |  | x 2 = <u>160</u>   |  |  |
| 4   |                     |                                 |                          | · ·  | x 3 = 0  |  |  |
| 5   |                     |                                 |                          |  | x 4 = 0  |  |  |
| Herb Stratum (Plot size: 5 ft r )                                 | 10%                 | = Total C                       | Cover                    | UPL species 0                                  | x = 0  |  |  |
| 1. Carex vulpinoidea  | 50                  | <b>~</b>                        | FACW                     | Column Totals: 110                             | (A) <u>190</u> (B)   |  |  |
| Phalaris arundinacea  | 20                  |                                 | FACW                     | Prevalence Index                               | = B/A = 1.73   |  |  |
| 3. Carex grayi  | 10                  |                                 | FACW                     | Hydrophytic Vegetatio                          | n Indicators:  |  |  |
| 4. Carex lurida   | 10                  |                                 | OBL                      | ✓ 1 - Rapid Test for H                         | lydrophytic Vegetation   |  |  |
| 5. Carex stipata  | 10                  |                                 | _ OBL                    | 2 - Dominance Test                             |  |  |  |
| 6   |                     |                                 |                          | 3 - Prevalence Inde                            |  |  |  |
| 7   |                     |                                 |                          | 4 - Morphological A                            | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |  |  |
| 8   |                     |                                 |                          |  | phytic Vegetation <sup>1</sup> (Explain)                               |  |  |
| 9   |                     |                                 |                          |  |  |  |  |
| 10  | 100%                |                                 |                          |  | I and wetland hydrology must   |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 10070               | = Total C                       | over                     | be present, unless distu                       | irbed or problematic.  |  |  |
| 1   |                     |                                 |                          | Hydrophytic                                    |  |  |  |
| 2   |                     |                                 |                          | Vegetation Present? Yes                        | s No   |  |  |
|   |                     | = Total C                       | Cover                    | rresentr fes                                   | , NU   |  |  |
| Remarks: (Include photo numbers here or on a separate sh          | neet.)              |                                 |                          |  |  |  |  |
| Hydrophytic vegetation present.                                   |                     |                                 |                          |  |  |  |  |
|   |                     |                                 |                          |  |  |  |  |

SOIL Sampling Point: 1-P

| Profile Desc  | ription: (Describe                       | to the dep          | th needed to docu        | ment the               | indicator                | or confin         | m the absence of indicators.)   |              |  |  |  |
|---------------|--|---------------------|--------------------------|------------------------|--------------------------|-------------------|---|--------------|--|--|--|
| Depth         |  |                     |                          |                        |                          |                   |   |              |  |  |  |
| (inches)      | Color (moist)                            | %                   | Color (moist)            | %_                     | Type <sup>1</sup> _      | _Loc <sup>2</sup> | Texture Remarks   |              |  |  |  |
| 0-4           | 10YR 4/2                                 | 95                  | 10YR 5/6                 | _ <u>5</u>             | _ <u>C</u>               | <u>M</u>          | Silty Clay  |              |  |  |  |
| 4-20          | 10YR 6/2                                 | <u>75</u>           | 10YR 6/1                 | 5                      | _ <u>D</u>               | <u>M</u>          | Silty Clay  |              |  |  |  |
| 4 - 20        | 10YR 6/2                                 | 75                  | 10YR 5/6                 | 20                     | <u>C</u>                 | M                 | Silty Clay  |              |  |  |  |
| -             |  |                     |                          |                        |                          |                   |   |              |  |  |  |
|               |  |                     |                          |                        |                          |                   |   |              |  |  |  |
|               |  |                     |                          |                        |                          |                   |   |              |  |  |  |
|               |  |                     |                          |                        |                          |                   | ·   |              |  |  |  |
| 1- 0.0        |  |                     |                          |                        |                          |                   | 2   |              |  |  |  |
| Hydric Soil   | oncentration, D=Dep                      | letion, RM=         | Reduced Matrix, M        | S=Maske                | ed Sand Gr               | ains.             | <sup>2</sup> Location: PL=Pore Lining, M=Matrix<br>Indicators for Problematic Hydric Se |              |  |  |  |
| Histosol      |  |                     | Sandy                    | Cleved M               | latrix (S4)              |                   | Coast Prairie Redox (A16)   | JII5 .       |  |  |  |
| ı —           | oipedon (A2)                             |                     | Dark Surface (S7)        |                        |                          |                   |   |              |  |  |  |
| I —           | istic (A3)                               |                     |                          | Redox (S<br>d Matrix ( |                          |                   | Iron-Manganese Masses (F12)   |              |  |  |  |
| Hydroge       | en Sulfide (A4)                          |                     | Loamy                    | Mucky M                | ineral (F1)              |                   | Very Shallow Dark Surface (TF12   | )            |  |  |  |
| _             | d Layers (A5)                            |                     |                          |                        | 1atrix (F2)              |                   | Other (Explain in Remarks)  |              |  |  |  |
|               | ick (A10)                                | - (0.4.4)           |                          | d Matrix               |                          |                   |   |              |  |  |  |
| ı — ·         | d Below Dark Surfac<br>ark Surface (A12) | e (A11)             | _                        |                        | face (F6)<br>Jurface (F7 | )                 | <sup>3</sup> Indicators of hydrophytic vegetation a                                     | and          |  |  |  |
| _             | Mucky Mineral (S1)                       |                     |                          | Depressi               | ,                        | ,                 | wetland hydrology must be presen  |              |  |  |  |
| ı —           | icky Peat or Peat (S                     | 3)                  |                          | p                      | ()                       |                   | unless disturbed or problematic.  | -,           |  |  |  |
| Restrictive   | Layer (if observed)                      | 1                   |                          |                        |                          |                   |   |              |  |  |  |
| Type:         |  |                     |                          |                        |                          |                   |   |              |  |  |  |
| Depth (in     | ches):                                   |                     |                          |                        |                          |                   | Hydric Soil Present? Yes  | No           |  |  |  |
| Remarks:      |  |                     |                          |                        |                          |                   |   |              |  |  |  |
| Hydric        | soil present.                            |                     |                          |                        |                          |                   |   |              |  |  |  |
| Tryuncs       | son present.                             |                     |                          |                        |                          |                   |   |              |  |  |  |
|               |  |                     |                          |                        |                          |                   |   |              |  |  |  |
|               |  |                     |                          |                        |                          |                   |   |              |  |  |  |
| HYDROLO       | GY                                       |                     |                          |                        |                          |                   |   |              |  |  |  |
| Wetland Hy    | drology Indicators:                      |                     |                          |                        |                          |                   |   |              |  |  |  |
| Primary India | cators (minimum of o                     | ne is requi         | red; check all that ap   | oply)                  |                          |                   | Secondary Indicators (minimum of t  | wo required) |  |  |  |
| Surface       | Water (A1)                               |                     | Water-Sta                | ined Lea               | ves (B9)                 |                   | Surface Soil Cracks (B6)  |              |  |  |  |
| High Wa       | ater Table (A2)                          |                     | Aquatic Fa               | auna (B1               | 3)                       |                   | Drainage Patterns (B10)   |              |  |  |  |
| Saturation    | on (A3)                                  |                     | True Aqua                | atic Plant             | s (B14)                  |                   | Dry-Season Water Table (C2)   |              |  |  |  |
| ı —           | larks (B1)                               |                     | Hydrogen                 |                        |                          |                   | Crayfish Burrows (C8)   |              |  |  |  |
|               | nt Deposits (B2)                         |                     | _                        |                        | eres on Liv              | •                 | · <i>· —</i>  |              |  |  |  |
| I — ·         | posits (B3)                              |                     | Presence                 |                        |                          | ,                 | Stunted or Stressed Plants (D1  | )            |  |  |  |
| -             | at or Crust (B4)                         |                     | Recent Iro               |                        |                          | a Solis (C        |   |              |  |  |  |
| I —           | oosits (B5)<br>on Visible on Aerial I    | lmagany (P          | Thin Muck<br>7) Gauge or |                        | , ,                      |                   | FAC-Neutral Test (D5)   |              |  |  |  |
| ı —           | Vegetated Concav                         |                     |                          |                        |                          |                   |   |              |  |  |  |
| Field Obser   | -  | o danado (i         |                          | piani ni i             | - Indiko,                |                   |   |              |  |  |  |
| Surface Wat   |  | es l                | No Depth (in             | ches):                 |                          |                   |   |              |  |  |  |
| Water Table   |  |                     | No Depth (in             |                        |                          |                   |   |              |  |  |  |
| Saturation P  |  |                     | No Depth (in             |                        |                          |                   | land Hydrology Present? Yes   | No           |  |  |  |
| (includes cap | oillary fringe)                          |                     |                          |                        |                          |                   |   |              |  |  |  |
| Describe Re   | corded Data (stream                      | gauge, mo           | onitoring well, aerial   | photos, p              | revious ins              | spections)        | , if available:   |              |  |  |  |
| D             |  |                     |                          |                        |                          |                   |   |              |  |  |  |
| Remarks:      |  |                     |                          |                        |                          |                   |   |              |  |  |  |
| Wetland       | ا hydrology ا                            | oresen <sup>.</sup> | t.                       |                        |                          |                   |   |              |  |  |  |
|               |  |                     |                          |                        |                          |                   |   |              |  |  |  |
| 1             |  |                     |                          |                        |                          |                   |   |              |  |  |  |

| Project/Site: AEP Fostoria to Lima              |               | (                 | City/County: Findlay/Hancock Sampling Date: 2022-06-30 |            |            |   |  |                 |
|---|---------------|-------------------|--|------------|------------|---|--|-----------------|
| Applicant/Owner: AEP                            |               |                   |  |            |            | State: Ohio   | Sampling Point:  | 1-Q             |
| Investigator(s): Beth Hollinden, Chris D        | avisson       |                   | Section  | n, Townsh  | nip, Ran   | nge: OH01 T2N R11E  | SN32   |                 |
| Landform (hillslope, terrace, etc.): Depress    | ion Toesl     | оре               |  | Local      | l relief ( | (concave, convex, none):  | Concave  |                 |
| Slope (%): 2 Lat: 41.092801                     |               | ι                 | Long: _  | -83.623    | 3111       |   | Datum: WGS   | 84              |
| Soil Map Unit Name: PmA                         |               |                   |  |            |            | NWI classific   | ation: R4SBC   |                 |
| Are climatic / hydrologic conditions on the sit | e typical for | this time of year | ar? Ye   | s          |            |   |  |                 |
| Are Vegetation, Soil, or Hydro                  | ology         | _ significantly o | disturb  | ed?        | Are "l     | Normal Circumstances" p   | oresent? Yes   | ✓ No            |
| Are Vegetation, Soil, or Hydro                  | ology         | _ naturally prot  | blemat   | ic?        | (If nee    | eded, explain any answe   | rs in Remarks.)  |                 |
| SUMMARY OF FINDINGS - Attac                     | h site ma     | p showing         | sam  | pling po   | oint lo    | ocations, transects   | , important f  | eatures, etc.   |
| Hydrophytic Vegetation Present? Y               | es            | No                |  |            |            |   |  |                 |
| 1 7   | es            |                   |  | Is the Sa  |            |   |  |                 |
|   | es            | No                |  | within a \ | Wetlan     | d? Yes  | No   |                 |
| Remarks:  |               |                   |  |            |            |   |  |                 |
| PEM. ORAM score of 17.                          |               |                   |  |            |            |   |  |                 |
| VEGETATION – Use scientific name                | es of plan    | nts.              |  |            |            |   |  |                 |
|   | <u> </u>      | Absolute          | Domi   | nant Indi  | cator      | Dominance Test work   | sheet:   |                 |
| Tree Stratum (Plot size: 30 ft r                |               | % Cover           |  |            |            | Number of Dominant Sports That Are OBL, FACW, or                    | pecies   | (A)             |
| 2   |               |                   |  |            |            |   |  |                 |
| 3.  |               |                   |  |            |            | Total Number of Domin<br>Species Across All Stra                    | 4  | (B)             |
| 4   |               |                   |  |            |            | Percent of Dominant Sp  | necies   |                 |
| 5   |               |                   |  |            | —          | That Are OBL, FACW,   |  | (A/B)           |
| Sapling/Shrub Stratum (Plot size: 15 ft r       | )             |                   | = Total  | l Cover    | -          | Prevalence Index wor  | ksheet:  |                 |
| 1   |               |                   |  |            |            | Total % Cover of:   | Multig   | oly by:         |
| 2   |               |                   |  |            |            |   | x 1 = <u>0</u>   |                 |
| 3   |               |                   |  |            |            | FACW species 90   | x 2 = <u>18</u>  | 0               |
| 4   |               |                   |  |            |            |   | x 3 = 0  |                 |
| 5   |               |                   |  |            | —          | FACU species 10 UPL species 0                                       | $     \begin{array}{r}                                     $ |                 |
| Herb Stratum (Plot size: 5 ft r                 | )             |                   | = Total  | l Cover    |            | UPL species 0 Column Totals: 100                                    | (A) $x = 0$ $(22)$   | <u> </u>        |
| 1. Phalaris arundinacea                         | - ′           | 90                |  | FA         | cw_        |   | ( , ,  | (B)             |
| 2. Asclepias syriaca                            |               | 10                |  | FA         | <u>cu</u>  | Prevalence Index  |  |                 |
| 3   |               |                   |  |            |            | Hydrophytic Vegetation  |  |                 |
| 4   |               |                   |  |            | —          | 1 - Rapid Test for H  | , , , ,  | tation          |
| 5   |               |                   |  |            |            | <ul><li>✓ 2 - Dominance Tes</li><li>✓ 3 - Prevalence Inde</li></ul> |  |                 |
| 6   |               |                   |  |            | —          | 4 - Morphological A   |  | wide cupporting |
| 7   |               |                   |  |            | —          | data in Remarks   | s or on a separat  | e sheet)        |
| 8<br>9  |               |                   |  |            |            | Problematic Hydro   | phytic Vegetation  | ı¹ (Explain)    |
| 10  |               |                   |  |            |            |   |  |                 |
| Woody Vine Stratum (Plot size: 30 ft r          |               | 100%              | = Total  | l Cover    |            | <sup>1</sup> Indicators of hydric soi<br>be present, unless distu   |  |                 |
| 1   |               |                   |  |            |            | Hydrophytic   |  |                 |
| 2   |               |                   |  |            |            | Vegetation  | <b>v</b>   |                 |
|   |               |                   | = Total  | l Cover    |            | Present? Yes  | sNo_   |                 |
| Remarks: (Include photo numbers here or         | on a separa   | ite sheet.)       |  |            |            |   |  |                 |
| Hydrophytic vegetation pr                       | esent.        |                   |  |            |            |   |  |                 |

SOIL Sampling Point: 1-Q

| Project/Site: AEP Fostoria to Lima                                | c               | City/County: Findlay/Hancock Sampling Date: 20 |               |   |  |               |  |
|---|-----------------|--|---------------|---|--|---------------|--|
| Applicant/Owner: AEP  |                 |  |               |   | Sampling Point: 1                            | -Q UPL        |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   |                 | Section,                                       | Township, Rai | nge: OH-1 T2N R11E                            | SN32   |               |  |
|   |                 |  |               | (concave, convex, none):                      |  |               |  |
| Slope (%): 0 Lat: 41.092854                                       | ι               | _ong:8   | 3.622767      |   | Datum: WGS 84                                | ļ             |  |
| Soil Map Unit Name: PmA   |                 |  |               | NWI classific                                 | cation: R4SBC                                |               |  |
| Are climatic / hydrologic conditions on the site typical for this | time of yea     | r? Yes   |               |   |  |               |  |
| Are Vegetation, Soil, or Hydrology si                             | ignificantly of | disturbed                                      | ? Are "       | 'Normal Circumstances" p                      | oresent? Yes                                 | No            |  |
| Are Vegetation, Soil, or Hydrology na                             | aturally prob   | olematic?                                      | (If ne        | eded, explain any answe                       | rs in Remarks.)                              |               |  |
| SUMMARY OF FINDINGS - Attach site map                             | showing         | sampli   | ing point le  | ocations, transects                           | , important fea                              | atures, etc.  |  |
| Hydrophytic Vegetation Present? Yes No                            | _ <b>_</b>      |  |               |   |  |               |  |
| Hydric Soil Present? Yes No                                       |                 |  | the Sampled   |   |  |               |  |
| Wetland Hydrology Present? Yes No                                 | ·               | wi   | thin a Wetlar | nd? Yes                                       | No   |               |  |
| Remarks:  |                 |  | _             |   |  |               |  |
| Upland point for Wetland 1-Q. Loca                                | ted on          | edge   | of agric      | ultural field.                                |  |               |  |
| <b>VEGETATION</b> – Use scientific names of plants.               |                 |  |               |   |  |               |  |
| To Ottober (Distriction 30 ft r                                   | Absolute        |  | nt Indicator  | Dominance Test work                           | sheet:                                       |               |  |
| Tree Stratum (Plot size: 30 ft r ) 1                              | % Cover         | Species  | Status        | Number of Dominant S<br>That Are OBL, FACW,   |  | (A)           |  |
| 2   |                 |  |               | Total Number of Domin                         |  |               |  |
| 3   |                 |  |               | Species Across All Stra                       | ata: <u>3</u>                                | (B)           |  |
| 4.       5.   |                 |  |               | Percent of Dominant Sport That Are OBL, FACW, |  | (A/B)         |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                 | = Total C                                      | over          | Prevalence Index wor                          | ksheet:                                      |               |  |
| 1   |                 |  |               | Total % Cover of:                             |  | by:           |  |
| 2.  |                 |  |               | OBL species 0                                 | x 1 = 0                                      |               |  |
| 3.  |                 |  |               | FACW species 0                                | x 2 = <u>0</u>                               |               |  |
| 4   |                 |  |               |   | x 3 = <u>0</u>                               |               |  |
| 5   |                 |  |               | FACU species 100                              | × 4 = 400                                    |               |  |
| 5 ft r  | :               | = Total C                                      | over          | UPL species 0                                 | ^  |               |  |
| Herb Stratum (Plot size: 5 ft r )  1. Digitaria bicornis          | 40              | ~  | FACU          | Column Totals: 100                            | (A) <u>400</u>                               | (B)           |  |
| 2 Festuca rubra   | 40              |  | FACU          | Prevalence Index                              | = B/A = <u>4.00</u>                          |               |  |
| 3. Asclepias syriaca  | 20              |  | FACU          | Hydrophytic Vegetation                        | on Indicators:                               |               |  |
| 4.  |                 |  |               | 1 - Rapid Test for I                          | -lydrophytic Vegeta                          | tion          |  |
| 5   |                 |  |               | 2 - Dominance Tes                             | st is >50%                                   |               |  |
| 6   |                 |  |               | 3 - Prevalence Inde                           | ex is ≤3.0 <sup>1</sup>                      |               |  |
| 7   |                 |  |               | 4 - Morphological A                           | Adaptations¹ (Provid<br>s or on a separate s | de supporting |  |
| 8   |                 |  |               | Problematic Hydro                             |  |               |  |
| 9   |                 |  |               | 1 Toblematic Trydro                           | priytic vegetation (                         | ,Lxpiaiii)    |  |
| 10  | 100%            |  |               | <sup>1</sup> Indicators of hydric soi         | il and wetland hydro                         | ology must    |  |
| Woody Vine Stratum (Plot size: 30 ft r                            | 100%_           |  |               | be present, unless distr                      | urbed or problemati                          | c.            |  |
| 1   |                 |  |               | Hydrophytic                                   |  |               |  |
| 2   |                 | <br>= Total C                                  |               | Vegetation<br>Present? Ye                     | s No   | <u>′</u>      |  |
| Remarks: (Include photo numbers here or on a separate s           |                 | - Total C                                      | over          |   |  |               |  |
|   | /               |  |               |   |  |               |  |
| Hydrophytic vegetation absent.                                    |                 |  |               |   |  |               |  |

SOIL Sampling Point: 1-Q UPL

| l <b>–</b>  | p.: (2000::   |  | ceaca to aoca   |  |  | or commi          | n the absence of i  | nuicators.   |
|---|---|--|---|--|--|-------------------|---|--|
| Depth _   | Matrix  |  |   | ox Feature   |  | . 2               |   |  |
| (inches)  | Color (moist)   |  | Color (moist)   | %  | Type <sup>1</sup>  | _Loc <sup>2</sup> | Texture   | Remarks  |
| 0-6   | 10YR 5/3  |  |   |  |  |                   | Silty Clay  |  |
|   |   |  |   |  |  |                   |   |  |
| -   |   |  |   |  |  |                   |   |  |
|   |   |  |   |  |  |                   |   |  |
|   |   |  |   |  |  |                   |   |  |
| <del></del> -   |   | ·  |   |  |  |                   |   |  |
|   |   |  |   |  |  |                   |   |  |
|   |   |  |   |  |  |                   |   |  |
| <sup>1</sup> Type: C=Con  | centration, D=Dep   | letion, RM=Red   | duced Matrix, M   | S=Masked   | Sand Gra   | ains.             | <sup>2</sup> Location: Pl   | _=Pore Lining, M=Matrix.   |
| Hydric Soil In  | dicators:   |  |   |  |  |                   | Indicators for  | Problematic Hydric Soils <sup>3</sup> :  |
| Histosol (A   | <b>A1</b> )   |  | Sandy   | Gleyed Ma  | atrix (S4)   |                   | Coast Prai  | rie Redox (A16)  |
| Histic Epip   | pedon (A2)  |  | Sandy   | Redox (S5  | )  |                   | Dark Surfa  | ce (S7)  |
| Black Hist  | , ,   |  |   | d Matrix (S  | ,  |                   |   | anese Masses (F12)   |
|   | _ Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)  |  |   |  |  |                   |   | ow Dark Surface (TF12)   |
| I   | ayers (A5)  |  |   | Gleyed Ma  |  |                   | Other (Exp  | lain in Remarks)   |
| 2 cm Mucl   | k (A10)<br>Below Dark Surface   | o (A11)  |   | ed Matrix (<br>Dark Surfa  |  |                   |   |  |
|   | selow Dark Surface<br>(Surface (A12)  | ; (A11)  | _   | ed Dark Su   | . ,  |                   | 3Indicators of h  | nydrophytic vegetation and   |
| _   | cky Mineral (S1)  |  |   | Depressio  | , ,  |                   |   | drology must be present,   |
|   | ky Peat or Peat (S3   | 3)   | _   |  | ,  |                   | •   | urbed or problematic.  |
| Restrictive La  | yer (if observed):  |  |   |  |  |                   |   |  |
| Type: Gra   | vel   |  |   |  |  |                   |   |  |
| Depth (inch   | es): <u>6</u>   |  | _   |  |  |                   | Hydric Soil Pre   | sent? Yes No   |
| Remarks:  |   |  |   |  |  |                   |   |  |
| , riyanio ox  | oil absent.   |  |   |  |  |                   |   |  |
| HYDROLOG  | Υ   |  |   |  |  |                   |   |  |
| Wetland Hydr  | ology Indicators:   |  |   |  |  |                   |   |  |
| Drimon, Indian  | tors (minimum of o  |  |   |  |  |                   |   |  |
| Primary indica  | toro (miniminami or o   | ne is required;  | check all that a  | pply)  |  |                   | Secondary I   | ndicators (minimum of two required)  |
| Surface W   |   | ne is required:  |   | pply)<br>ained Leav  | es (B9)  |                   |   | ndicators (minimum of two required) Soil Cracks (B6)   |
| Surface W   |   | ne is required;  | Water-Sta   |  | , ,  |                   | Surface   |  |
| Surface W   | ater (A1)<br>er Table (A2)  | ne is required;  | Water-Sta   | ained Leav   | )  |                   | Surface<br>Drainag  | Soil Cracks (B6)   |
| Surface W   | rater (A1)<br>r Table (A2)<br>(A3)  | ne is required:  | Water-Sta   | ained Leav<br>auna (B13<br>atic Plants   | )<br>(B14)   |                   | Surface Drainag Dry-Sea   | Soil Cracks (B6)<br>e Patterns (B10)   |
| Surface W High Wate Saturation Water Mai  | rater (A1)<br>r Table (A2)<br>(A3)  | ne is required:  | Water-Sta Aquatic F True Aqua Hydrogen  | ained Leav<br>auna (B13<br>atic Plants   | )<br>(B14)<br>dor (C1)   | ing Roots         | Surface Drainag Dry-Sea Crayfish  | Soil Cracks (B6)<br>e Patterns (B10)<br>son Water Table (C2)   |
| Surface W High Wate Saturation Water Mai  | Vater (A1) er Table (A2) (A3) rks (B1) Deposits (B2)  | ne is required:  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized   | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O  | )<br>(B14)<br>dor (C1)<br>res on Livi  | -                 | Surface Drainag Dry-Sea Crayfish (C3) Saturation                        | Soil Cracks (B6)<br>e Patterns (B10)<br>son Water Table (C2)<br>Burrows (C8)   |
| Surface W High Wate Saturation Water Mai Sediment Drift Depo  | Vater (A1) er Table (A2) (A3) rks (B1) Deposits (B2)  | ne is required <u>:</u>  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized   | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce  | )<br>(B14)<br>dor (C1)<br>res on Livi<br>ed Iron (C4                                     | ł)                | Surface Drainag Dry-Sea Crayfish (C3) Saturati                          | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)  |
| Surface W High Wate Saturation Water Mai Sediment Drift Depo  | vater (A1) er Table (A2) (A3) erks (B1) Deposits (B2) sits (B3) or Crust (B4)   | ne is required <u>:</u>  | Water-Sta Aquatic F True Aquatic Hydrogen Oxidized Presence   | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti  | )<br>(B14)<br>dor (C1)<br>res on Livied Iron (C4<br>on in Tilled                         | ł)                | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomor           | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)                                    |
| Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat  | vater (A1) er Table (A2) (A3) erks (B1) Deposits (B2) sits (B3) or Crust (B4)   |  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ira                                 | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti<br>k Surface (   | (B14)<br>dor (C1)<br>res on Livi<br>ed Iron (C4<br>on in Tilled                          | ł)                | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomor           | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depoi   | vater (A1) er Table (A2) (A3) eks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)  | magery (B7)  | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Iro Thin Mucl                       | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti<br>k Surface (<br>Well Data  | (B14)<br>(B14)<br>dor (C1)<br>res on Livi<br>ed Iron (C4<br>on in Tilled<br>(C7)<br>(D9) | ł)                | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomor           | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depoi   | Vater (A1) Pr Table (A2) (A3) Prks (B1) Deposits (B2) Sits (B3) Or Crust (B4) Sits (B5) It Visible on Aerial In Vegetated Concave   | magery (B7)<br>e Surface (B8)                                    | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ind Thin Mucl Gauge or Other (Ex    | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti<br>k Surface (<br>Well Data<br>plain in Re   | (B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)              | d Soils (Ce       | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomor           | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo: Inundatior Sparsely \   | /ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) a Visible on Aerial In /egetated Concave /tions: Present?  | magery (B7)<br>e Surface (B8)<br>es No _                         | Water-Sta Aquatic F. True Aqua Hydrogen Oxidized Presence Recent Ird Thin Mucl Gauge or Other (Ex   | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti<br>k Surface (<br>Well Data<br>plain in Re   | (B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)              | d Soils (Co       | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomor           | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely \ Field Observa   | /ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) a Visible on Aerial In /egetated Concave attions: Present?   | magery (B7)<br>e Surface (B8)<br>es No _                         | Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent Ind Thin Mucl Gauge or Other (Ex    | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O<br>Rhizosphe<br>of Reduce<br>on Reducti<br>k Surface (<br>Well Data<br>plain in Re   | (B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)              | d Soils (Co       | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted Geomor           | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo: Inundation Sparsely \ Field Observa Surface Water Water Table P Saturation Pre (includes capill              | rater (A1) rater (A1) rater (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) rational life regetated Concave stions: Present? resent? yesent? yesent? yesent? yesent?             | magery (B7) e Surface (B8) es No _ es No _ es No _               | Water-Sta Aquatic F True Aquatic Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)              | d Soils (Co       | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo: Inundation Sparsely \ Field Observa Surface Water Water Table P Saturation Pre (includes capill              | rater (A1) rater (A1) rater (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) rational life (A2) regetated Concave stions: Present? Yesent? Yesent?                                | magery (B7) e Surface (B8) es No _ es No _ es No _               | Water-Sta Aquatic F True Aquatic Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)              | d Soils (Co       | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely \ Field Observa Surface Water Water Table P Saturation Pre (includes capill               | rater (A1) rater (A1) rater (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) rational life regetated Concave stions: Present? resent? yesent? yesent? yesent? yesent?             | magery (B7) e Surface (B8) es No _ es No _ es No _               | Water-Sta Aquatic F True Aquatic Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)              | d Soils (Co       | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo: Inundation Sparsely \ Field Observa Surface Water Water Table P Saturation Pre (includes capill Describe Reco | rater (A1) er Table (A2) (A3) eks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) e Visible on Aerial In regetated Concave etions: Present? Present? sent? you lary fringe) erded Data (stream | magery (B7) e Surface (B8) es No _ es No _ es No _ gauge, monito | Water-Sta Aquatic F True Aquatic Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)              | d Soils (Co       | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo: Inundation Sparsely \ Field Observa Surface Water Water Table P Saturation Pre (includes capill Describe Reco | rater (A1) rater (A1) rater (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) rational life regetated Concave stions: Present? resent? yesent? yesent? yesent? yesent?             | magery (B7) e Surface (B8) es No _ es No _ es No _ gauge, monito | Water-Sta Aquatic F True Aquatic Hydrogen Oxidized Presence Recent Ird Thin Muci Gauge or Other (Ex | ained Leavauna (B13 atic Plants Sulfide OR Reduce on Reduction Red | (B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)              | d Soils (Co       | Surface Drainag Dry-Sea Crayfish (C3) Saturati Stunted 6) Geomor FAC-Ne | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |

| Project/Site: AEP Fostoria to Lima          |                 | (                  | City/County: Findlay/Hancock Sampling Date: 2022-0 |                |  |                    |                  |  |
|---|-----------------|--------------------|--|----------------|--|--------------------|------------------|--|
| Applicant/Owner: AEP                        |                 |                    |  |                | State: Ohio  |                    | : 1-R            |  |
| Investigator(s): Beth Hollinden, Chris      | Davisson        |                    | Section  | , Township, Ra | ange: OH01 T2N R11E  | SN32               |                  |  |
| Landform (hillslope, terrace, etc.): Depre  | ssion Toes      | slope              |  | Local relief   | (concave, convex, none):   | Concave            |                  |  |
| Slope (%): 2 Lat: 41.09128                  | 6               |                    | Long: _  | -83.629611     |  | Datum: WGS         | 84               |  |
| Soil Map Unit Name: PmA                     |                 |                    |  |                | NWI classific  | cation: N/A        |                  |  |
| Are climatic / hydrologic conditions on the | site typical fo | r this time of yea | ar? Yes  |                |  |                    |                  |  |
| Are Vegetation, Soil, or Hy                 | drology         | significantly      | disturbe   | ed? Are        | "Normal Circumstances" p   | oresent? Yes _     | ✓ No             |  |
| Are Vegetation, Soil, or Hy                 | drology         | naturally pro      | blemati  | c? (If n       | eeded, explain any answe   | rs in Remarks.)    |                  |  |
| SUMMARY OF FINDINGS – Atta                  | ach site m      | ap showing         | samp   | ling point     | locations, transects   | , important f      | eatures, etc.    |  |
| Hydrophytic Vegetation Present?             |                 | _ No               | Π.   |                |  |                    |                  |  |
| Hydric Soil Present?                        |                 | _ No               |  | s the Sampled  |  | No                 |                  |  |
| Wetland Hydrology Present?  Remarks:        | Yes             | _ No               |  | within a Wetla | nd? Tes  | NO                 |                  |  |
|   |                 |                    |  |                |  |                    |                  |  |
| PEM. ORAM score of 17.                      |                 |                    |  |                |  |                    |                  |  |
| VEGETATION – Use scientific na              | mes of pla      | nts.               |  |                |  |                    |                  |  |
| Tree Stratum (Plot size: 30 ft r            |                 | Absolute           |  | nant Indicator | Dominance Test work  |                    |                  |  |
| 1   |                 |                    |  | es? Status     | Number of Dominant S<br>That Are OBL, FACW,                      | pecies             | (A)              |  |
| 2.  |                 |                    |  |                |  |                    | (//              |  |
| 3.  |                 |                    |  |                | Total Number of Domin<br>Species Across All Stra                 | _                  | (B)              |  |
| 4   |                 |                    |  |                | Percent of Dominant S  | necies             |                  |  |
| 5   |                 |                    |  |                | That Are OBL, FACW,  |                    | (A/B)            |  |
| Sapling/Shrub Stratum (Plot size: 15 ft     | tr              | ) ——               | = Total  | Cover          | Prevalence Index wor   | ksheet:            |                  |  |
| 1.  |                 |                    |  |                | Total % Cover of:  |                    | ply by:          |  |
| 2   |                 |                    |  |                |  | x 1 = <u>80</u>    |                  |  |
| 3   |                 |                    |  |                |  | x 2 = 40           |                  |  |
| 4   |                 |                    |  |                |  | x 3 = 0            |                  |  |
| 5   |                 |                    |  |                | FACU species 0 UPL species 0                                     | x 4 = 0<br>x 5 = 0 |                  |  |
| Herb Stratum (Plot size: 5 ft r             | )               |                    | = Total  | Cover          | Column Totals: 100   | (A) $(A)$ 12       |                  |  |
| 1. Typha angustifolia                       |                 | 80                 |  | OBL            |  |                    | (5)              |  |
| 2. Phalaris arundinacea                     |                 | 20                 |  | FACW_          | Prevalence Index   |                    |                  |  |
| 3   |                 |                    |  |                | Hydrophytic Vegetation   |                    |                  |  |
| 4   |                 |                    |  |                | 1 - Rapid Test for l   |                    | etation          |  |
| 5   |                 |                    |  |                | ✓ 3 - Prevalence Inde  |                    |                  |  |
| 6<br>7                                      |                 |                    |  |                | 4 - Morphological A  |                    | ovide supporting |  |
| 8.  |                 |                    |  |                | data in Remarks  | s or on a separat  | te sheet)        |  |
| 9.  |                 |                    |  |                | Problematic Hydro  | phytic Vegetation  | า¹ (Explain)     |  |
| 10  |                 |                    |  |                | North and a foundation of  | I and wallend ho   | adaala ay aay at |  |
| Woody Vine Stratum (Plot size: 30 ft r      | <u> </u>        | 100%               | = Total  | Cover          | <sup>1</sup> Indicators of hydric soi<br>be present, unless dist |                    |                  |  |
| 1   |                 |                    |  |                | Hydrophytic  |                    |                  |  |
| 2   |                 |                    |  |                | Vegetation<br>Present? Ye  | s No_              |                  |  |
|   |                 |                    | = Total  | Cover          | Present? Te  | SNO_               |                  |  |
| Remarks: (Include photo numbers here        | or on a separ   | rate sheet.)       |  |                |  |                    |                  |  |
| Hydrophytic vegetation p                    | oresent.        | •                  |  |                |  |                    |                  |  |
|   |                 |                    |  |                |  |                    |                  |  |

SOIL Sampling Point: 1-R

| Profile Desc        | ription: (Describe                      | to the dep   | th needed to docu        | ment the               | indicator           | or confin         | m the absence of ind | licators.)   |
|---------------------|---|--------------|--------------------------|------------------------|---------------------|-------------------|----------------------|--|
| Depth               | Matrix                                  |              | Redo                     | x Feature              | es                  |                   |                      |  |
| (inches)            | Color (moist)                           | %            | Color (moist)            | %                      | Type <sup>1</sup> _ | _Loc <sup>2</sup> |                      | Remarks  |
| 0 - 10              | 10YR 4/2                                | 95           | 10YR 5/6                 | _ <u>5</u>             | _ <u>C</u>          | <u>M</u>          | Silty Clay           |  |
| 10 - 20             | 10YR 4/2                                | 90           | 10YR 5/6                 | 10                     | <u>C</u>            | <u>M</u>          | Silty Clay           |  |
| -                   |   |              |                          |                        |                     |                   |                      |  |
|                     |   |              |                          |                        |                     |                   |                      |  |
|                     |   |              |                          |                        |                     |                   |                      |  |
|                     |   |              |                          |                        |                     |                   |                      |  |
| <u> </u>            |   |              |                          |                        |                     |                   |                      |  |
|                     |   |              |                          |                        |                     |                   |                      |  |
|                     |   | pletion, RM= | Reduced Matrix, M        | S=Maske                | d Sand Gr           | ains.             |                      | Pore Lining, M=Matrix.                             |
| Hydric Soil         |   |              |                          |                        | (0.1)               |                   |                      | roblematic Hydric Soils <sup>3</sup> :             |
| Histosol            | (A1)<br>pipedon (A2)                    |              |                          | Gleyed M<br>Redox (S   | atrix (S4)          |                   | Coast Prairie        | Redox (A16)  |
| I —                 | stic (A3)                               |              |                          | d Matrix (             |                     |                   |                      | ese Masses (F12)                                   |
| ı —                 | n Sulfide (A4)                          |              |                          |                        | ineral (F1)         |                   |                      | Dark Surface (TF12)                                |
| Stratified          | Layers (A5)                             |              |                          |                        | latrix (F2)         |                   |                      | in in Remarks)                                     |
| ı —                 | ıck (A10)                               |              |                          | d Matrix               |                     |                   |                      |  |
| ı — ·               | d Below Dark Surface                    | ce (A11)     | _                        | Dark Surf              |                     |                   | 31                   | decemberation and                                  |
| ı —                 | ark Surface (A12)<br>lucky Mineral (S1) |              |                          | ed Dark S<br>Depressio | urface (F7          | )                 |                      | drophytic vegetation and<br>ology must be present, |
|                     | icky Peat or Peat (S                    | 33)          | \(\text{Nedox}\)         | Бергеззіс              | ) (1 O)             |                   | •                    | bed or problematic.                                |
|                     | Layer (if observed)                     |              |                          |                        |                     |                   |                      |  |
| Type:               |   |              |                          |                        |                     |                   |                      | <b>.</b>   |
| Depth (in           | ches):                                  |              |                          |                        |                     |                   | Hydric Soil Prese    | ent? Yes No  |
| Remarks:            |   |              |                          |                        |                     |                   |                      |  |
| Lydric              | coil procent                            |              |                          |                        |                     |                   |                      |  |
| Hyunc :             | soil present.                           | •            |                          |                        |                     |                   |                      |  |
|                     |   |              |                          |                        |                     |                   |                      |  |
|                     |   |              |                          |                        |                     |                   |                      |  |
| <b>HYDROLO</b>      | GY                                      |              |                          |                        |                     |                   |                      |  |
| Wetland Hy          | drology Indicators                      | :            |                          |                        |                     |                   |                      |  |
| Primary India       | cators (minimum of                      | one is requi | red; check all that ap   | oply)                  |                     |                   | Secondary Ind        | icators (minimum of two required)                  |
| ✓ Surface           | Water (A1)                              |              | Water-Sta                | ined Leav              | ves (B9)            |                   | Surface So           | oil Cracks (B6)                                    |
|                     | iter Table (A2)                         |              | Aquatic Fa               | auna (B13              | 3)                  |                   | Drainage I           | Patterns (B10)                                     |
| <u>✓</u> Saturation | on (A3)                                 |              | True Aqua                | atic Plants            | (B14)               |                   | Dry-Seaso            | on Water Table (C2)                                |
|                     | arks (B1)                               |              | Hydrogen                 |                        |                     |                   | _ ,                  | urrows (C8)  |
|                     | nt Deposits (B2)                        |              | Oxidized I               |                        |                     | •                 | · · —                | Visible on Aerial Imagery (C9)                     |
| - '                 | posits (B3)                             |              | Presence                 |                        | •                   | ,                 |                      | Stressed Plants (D1)                               |
| -                   | at or Crust (B4)                        |              | Recent Iro               |                        |                     | a Solis (C        |                      | nic Position (D2)                                  |
| I — ·               | oosits (B5)<br>on Visible on Aerial     | Imageny (B)  | Thin Muck<br>7) Gauge or |                        |                     |                   | <u>✓</u> FAC-Neut    | rai Test (D5)                                      |
| ı —                 | Vegetated Concav                        |              |                          |                        |                     |                   |                      |  |
| Field Obser         |   | (1           |                          | p. 6.11. 11. 1         |                     |                   |                      |  |
| Surface Wat         |   | Yes 🗸        | No Depth (in             | ches): 1               |                     |                   |                      |  |
| Water Table         |   |              | No Depth (in             |                        |                     | _                 |                      |  |
| Saturation P        |   | _            | No Depth (in             |                        |                     | <br>Wet           | land Hydrology Pres  | ent? Yes No  |
| (includes car       | oillary fringe)                         |              |                          |                        |                     |                   |                      |  |
| Describe Re         | corded Data (stream                     | n gauge, mo  | nitoring well, aerial    | photos, p              | revious ins         | spections)        | , if available:      |  |
| Domasica            |   |              |                          |                        |                     |                   |                      |  |
| Remarks:            |   |              |                          |                        |                     |                   |                      |  |
| Wetland             | l hydrology                             | presen       | t.                       |                        |                     |                   |                      |  |
|                     |   |              |                          |                        |                     |                   |                      |  |
|                     |   |              |                          |                        |                     |                   |                      |  |

| Project/Site: AEP Fostoria to Lima                           | (                | City/Co | ounty  | Findlay/                          | /Hancock                                 | Sampling Date:                 | 2022-06-30      |  |
|--|------------------|---------|--------|-----------------------------------|--|--------------------------------|-----------------|--|
| Applicant/Owner: AEP   |                  |         |        |                                   | State: Ohio                              | Sampling Point:                | 1-R UPL         |  |
| Investigator(s): Beth Hollinden, Chris Davisson              | :                | Sectio  | n, To  | wnship, Range: OH01 T2N R11E SN32 |  |                                |                 |  |
| Landform (hillslope, terrace, etc.): Flat                    |                  |         | ı      | Local relief                      | (concave, convex, none):                 | None                           |                 |  |
| Slope (%): 0 Lat: 41.0914                                    |                  | Long:   | -83    | .629186                           |  | Datum: WGS 8                   | 34              |  |
| Soil Map Unit Name: PmA                                      |                  |         |        |                                   | NWI classific                            | ation: R4SBC                   |                 |  |
| Are climatic / hydrologic conditions on the site typical for | this time of yea | ar? Ye  | es     |                                   |  |                                |                 |  |
| Are Vegetation, Soil, or Hydrology                           | _ significantly  | disturk | ed?    | Are "                             | Normal Circumstances" p                  | present? Yes                   | V No            |  |
| Are Vegetation, Soil, or Hydrology                           | _ naturally pro  | blema   | tic?   | (If ne                            | eded, explain any answe                  | rs in Remarks.)                |                 |  |
| SUMMARY OF FINDINGS – Attach site ma                         | p showing        | sam     | plin   | g point le                        | ocations, transects                      | , important fe                 | eatures, etc.   |  |
| Hydrophytic Vegetation Present? Yes                          | No               |         |        |                                   |  |                                |                 |  |
| Hydric Soil Present? Yes                                     |                  |         |        | e Sampled                         |  |                                |                 |  |
| Wetland Hydrology Present? Yes                               | No               |         | with   | in a Wetlan                       | nd? Yes                                  | No                             | -               |  |
| Remarks:   |                  |         |        |                                   |  |                                |                 |  |
| Upland point for Wetland 1-R. Loc                            | ated on          | edg     | je o   | f agric                           | ultural field.                           |                                |                 |  |
| VEGETATION – Use scientific names of plan                    | ts.              |         |        |                                   |  |                                |                 |  |
|  | Absolute         | Dom     | inant  | Indicator                         | Dominance Test work                      | sheet:                         |                 |  |
| Tree Stratum (Plot size: 30 ft r )                           | % Cover          |         |        |                                   | Number of Dominant S                     |                                |                 |  |
| 1  |                  |         |        |                                   | That Are OBL, FACW,                      | or FAC: 0                      | (A)             |  |
| 2  |                  |         |        |                                   | Total Number of Domin                    | ^                              |                 |  |
| 3  |                  |         |        |                                   | Species Across All Stra                  | nta: <u>3</u>                  | (B)             |  |
| 4<br>5   |                  |         |        |                                   | Percent of Dominant Sp                   |                                | (A/D)           |  |
|  |                  | = Tota  | al Cov | /er                               | That Are OBL, FACW,                      |                                | (A/B)           |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                  |                  |         |        |                                   | Prevalence Index wor                     |                                |                 |  |
| 1  |                  |         |        |                                   | Total % Cover of:                        |                                | ly by:          |  |
| 2  |                  |         |        |                                   | OBL species 0  FACW species 0            | x 1 = 0<br>x 2 = 0             |                 |  |
| 3  |                  |         |        |                                   |  | x = 0<br>x = 0                 |                 |  |
| 4<br>5   |                  |         |        |                                   | FACU species 100                         | $\times 4 = 40$                | 0               |  |
| 0  |                  | = Tota  | al Cov | /er                               | UPL species 0                            | x 5 = 0                        |                 |  |
| Herb Stratum (Plot size: 5 ft r )                            |                  |         |        |                                   | Column Totals: 100                       | (A) 40                         |                 |  |
| 1. Ambrosia artemisiifolia                                   | $-\frac{40}{20}$ |         | _      | FACU                              |  | nu 4.00                        |                 |  |
| 2. Cirsium arvense   | $-\frac{30}{30}$ |         |        | FACU<br>FACU                      | Prevalence Index  Hydrophytic Vegetation |                                |                 |  |
| 3. Solidago canadensis                                       |                  |         |        | FACO                              | 1 - Rapid Test for I                     |                                | tation          |  |
| 4  |                  |         |        |                                   | 2 - Dominance Tes                        |                                | tation          |  |
| 5<br>6   |                  |         |        |                                   | 3 - Prevalence Inde                      |                                |                 |  |
| 7  |                  |         |        |                                   | 4 - Morphological A                      | Adaptations <sup>1</sup> (Prov | vide supporting |  |
| 8.   |                  |         |        |                                   | 1  | s or on a separate             | · ·             |  |
| 9.   |                  |         |        |                                   | Problematic Hydro                        | phytic Vegetation              | ' (Explain)     |  |
| 10   |                  |         |        |                                   | <sup>1</sup> Indicators of hydric soi    | l and wetland hve              | Irology must    |  |
| Woody Vine Stratum (Plot size: 30 ft r )                     | 100%             | = Tota  | al Cov | /er                               | be present, unless distu                 |                                |                 |  |
| 1  |                  |         |        |                                   | Hydrophytic                              |                                |                 |  |
| 2  |                  |         |        |                                   | Vegetation                               | s No_                          | V               |  |
|  |                  | = Tota  | al Cov | /er                               | Present? Ye                              | - NO_                          |                 |  |
| Remarks: (Include photo numbers here or on a separa          | te sheet.)       |         |        |                                   |  |                                |                 |  |
| Hydrophytic vegetation absent.                               |                  |         |        |                                   |  |                                |                 |  |

SOIL Sampling Point: 1-R UPL

| Profile Desc           | cription: (Describe   | to the depth    | needed to docur       | nent the i | indicator   | or confirm  | the absence of             | indicators.)  |  |  |  |
|------------------------|---|-----------------|-----------------------|------------|-------------|-------------|----------------------------|---|--|--|--|
| Depth                  | Matrix  |                 | Redo                  | x Feature  | s1          | 1 - 2       | T                          | D   |  |  |  |
| (inches)               | Color (moist)   |                 | Color (moist)         | %          | Type'       | Loc         |                            | Remarks   |  |  |  |
| 0 - 20                 | 10YR 4/2  | _ <u>100</u> _  |                       |            |             |             | Silty Clay _               |   |  |  |  |
|                        |   |                 |                       |            |             |             |                            |   |  |  |  |
|                        |   |                 |                       |            |             |             |                            |   |  |  |  |
| -                      |   |                 |                       |            |             |             |                            |   |  |  |  |
|                        |   |                 |                       |            |             |             |                            |   |  |  |  |
|                        |   |                 |                       |            |             |             |                            |   |  |  |  |
| <u> </u>               |   | - — –           |                       |            |             |             |                            |   |  |  |  |
| -                      |   |                 |                       |            |             |             |                            |   |  |  |  |
| Type: C=Ce Hydric Soil | oncentration, D=Dep<br>Indicators:  | oletion, RM=R   | educed Matrix, MS     | S=Masked   | d Sand Gra  | ins.        |                            | PL=Pore Lining, M=Matrix.  r Problematic Hydric Soils³: |  |  |  |
| Histosol               | (A1)  |                 | Sandy 0               | Gleyed Ma  | atrix (S4)  |             | Coast Pra                  | airie Redox (A16)                                       |  |  |  |
| ı —                    | oipedon (A2)  |                 |                       | Redox (S5  |             |             | Dark Surface (S7)          |   |  |  |  |
| ı —                    | Black Histic (A3)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)          |                 |                       |            |             |             |                            | ganese Masses (F12)                                     |  |  |  |
|                        | Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)<br>Stratified Layers (A5) Loamy Gleyed Matrix (F2) |                 |                       |            |             |             |                            | llow Dark Surface (TF12)<br>plain in Remarks)           |  |  |  |
| _                      | ick (A10)   |                 |                       | d Matrix ( |             |             | Other (Ex                  | piani in Nemarks)                                       |  |  |  |
| ı —                    | d Below Dark Surfac   | e (A11)         |                       | Dark Surfa |             |             |                            |   |  |  |  |
| Thick Da               | ark Surface (A12)   |                 | Deplete               | d Dark Su  | ırface (F7) |             | <sup>3</sup> Indicators of | hydrophytic vegetation and                              |  |  |  |
| 1 – 1                  | lucky Mineral (S1)  |                 | Redox [               | Depressio  | ns (F8)     |             |                            | ydrology must be present,                               |  |  |  |
|                        | icky Peat or Peat (S  |                 |                       |            |             |             | unless dis                 | sturbed or problematic.                                 |  |  |  |
| l _                    | Layer (if observed)   | :               |                       |            |             |             |                            |   |  |  |  |
| Type:                  | - h N   |                 | _                     |            |             |             | Hydric Soil Pr             | esent? Yes No   |  |  |  |
| Remarks:               | ches):  |                 |                       |            |             |             |                            |   |  |  |  |
| Hydric                 | soil absent.  |                 |                       |            |             |             |                            |   |  |  |  |
| HYDROLO                | GY  |                 |                       |            |             |             |                            |   |  |  |  |
| Wetland Hy             | drology Indicators  | ;               |                       |            |             |             |                            |   |  |  |  |
| Primary India          | cators (minimum of  | one is required | d; check all that ap  | ply)       |             |             | <u>Secondary</u>           | Indicators (minimum of two required)                    |  |  |  |
| Surface                | Water (A1)  |                 | Water-Sta             | ined Leav  | es (B9)     |             | Surface                    | e Soil Cracks (B6)                                      |  |  |  |
| ı —                    | ater Table (A2)   |                 | Aquatic Fa            | una (B13   | )           |             | Draina                     | ge Patterns (B10)                                       |  |  |  |
| Saturation             |   |                 | True Aqua             |            |             |             |                            | ason Water Table (C2)                                   |  |  |  |
| ı —                    | larks (B1)  |                 | Hydrogen              |            | , ,         |             | _ ,                        | h Burrows (C8)  |  |  |  |
|                        | nt Deposits (B2)  |                 | Oxidized F            |            |             |             |                            | tion Visible on Aerial Imagery (C9)                     |  |  |  |
| —                      | oosits (B3)   |                 | Presence Recent Iro   |            | ,           | ,           | _                          | d or Stressed Plants (D1)<br>orphic Position (D2)       |  |  |  |
|                        | at or Crust (B4)<br>posits (B5)   |                 | Thin Muck             |            |             | 1 30115 (00 | -                          | eutral Test (D5)  |  |  |  |
| I — .                  | on Visible on Aerial  | Imagery (B7)    | _                     | ,          |             |             |                            | callar rest (50)  |  |  |  |
| ı —                    | / Vegetated Concav  |                 |                       |            |             |             |                            |   |  |  |  |
| Field Obser            |   |                 |                       |            |             |             |                            |   |  |  |  |
| Surface Wat            | er Present?   | /es No          | Depth (in             | ches):     |             | _           |                            |   |  |  |  |
| Water Table            |   |                 | Depth (in             |            |             |             |                            |   |  |  |  |
| Saturation P           | resent?   |                 | Depth (in             |            |             |             | and Hydrology P            | resent? Yes No  |  |  |  |
| Describe Re            | corded Data (stream   | n gauge, moni   | toring well, aerial p | photos, pr | evious ins  | pections),  | if available:              |   |  |  |  |
| Remarks:               |   |                 |                       |            |             |             |                            |   |  |  |  |
| Motions                | l bydrology   | ahcan+          |                       |            |             |             |                            |   |  |  |  |
| vveuano                | l hydrology   | สมรัชกัน.       |                       |            |             |             |                            |   |  |  |  |
|                        |   |                 |                       |            |             |             |                            |   |  |  |  |

| Project/Site: AEP Fostoria to Lima           |                  | (                 | City/County: Findlay/Hancock Sampling Date: 2022 |               |  |  |                   |  |
|--|------------------|-------------------|--|---------------|--|--|-------------------|--|
| Applicant/Owner: AEP                         |                  |                   |  |               | State: Ohio  | Sampling Poin  | <sub>t:</sub> 1-S |  |
| Investigator(s): Beth Hollinden, Chris       | Davisson         | ;                 | Section  | , Township, F | Range: OH01 T2N R11E   | SN31   |                   |  |
| Landform (hillslope, terrace, etc.): Hillslo | ре               |                   |  |               | ef (concave, convex, none)   | _  |                   |  |
| Slope (%): 2 Lat: 41.08716                   | 6                | I                 | Long: _  | 83.6482       |  | Datum: WGS   | 84                |  |
| Soil Map Unit Name: PmA                      |                  |                   |  |               | NWI classific  | cation: N/A  |                   |  |
| Are climatic / hydrologic conditions on the  | site typical for | this time of year | ar? Yes  |               |  |  |                   |  |
| Are Vegetation, Soil, or Hy                  | drology          | _ significantly   | disturbe   | ed? Ar        | e "Normal Circumstances"   | present? Yes_  | ✓ No              |  |
| Are Vegetation, Soil, or Hy                  | drology          | _ naturally prol  | blemati  | c? (If        | needed, explain any answe  | ers in Remarks.)                                     |                   |  |
| SUMMARY OF FINDINGS - Atta                   | ach site ma      | p showing         | samp   | ling point    | t locations, transects   | s, important   | features, etc.    |  |
| Hydrophytic Vegetation Present?              | Yes              |                   |  |               |  |  |                   |  |
| Hydric Soil Present?                         | Yes              |                   |  | s the Sample  |  | , No   |                   |  |
| Wetland Hydrology Present?                   | Yes              | No                |  | within a Wetl | land? Yes  | No   |                   |  |
|  | <b>5</b> '       |                   |  |               |  |  |                   |  |
| PEM. ORAM score of 12.                       | Disturbe         | d by adja         | icen   | t land us     | se.  |  |                   |  |
| VEGETATION – Use scientific na               | mes of plan      | its.              |  |               |  |  |                   |  |
| Tree Stratum (Plot size: 30 ft r             |                  | Absolute          |  | nant Indicato |  | ksheet:  |                   |  |
| 1  |                  |                   | Specie   | es? Status    | <ul> <li>Number of Dominant S</li> <li>That Are OBL, FACW,</li> </ul>      | pecies   | (A)               |  |
| 2.   |                  |                   |  |               | _  |  | (7)               |  |
| 3.   |                  |                   |  |               | <ul> <li>Total Number of Domir</li> <li>Species Across All Stra</li> </ul> | _  | (B)               |  |
| 4  |                  |                   |  |               | Percent of Dominant S  | necies   |                   |  |
| 5  |                  |                   |  |               | That Are OBL, FACW,  |  | (A/B)             |  |
| Sapling/Shrub Stratum (Plot size: 15 ft      | tr )             |                   | = Total  | Cover         | Prevalence Index wor   | rksheet:   |                   |  |
| 1.   |                  |                   |  |               | Total % Cover of:  | Mult   | iply by:          |  |
| 2  |                  |                   |  |               | - I '  | x 1 = 8  |                   |  |
| 3  |                  |                   |  |               | _ FACW species 0   |  |                   |  |
| 4  |                  |                   |  |               |  | x 3 = 6  | 0                 |  |
| 5  |                  |                   |  |               | FACU species 0 UPL species 0   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |                   |  |
| Herb Stratum (Plot size: 5 ft r              | )                |                   | = Total  |               | Column Totals: 100   |  | 40 (B)            |  |
| 1. Typha angustifolia                        |                  | 80                |  | OBL           | _  |  |                   |  |
| 2. Apocynum cannabinum                       |                  | 20                |  | <u>FAC</u>    | Prevalence Index   |  |                   |  |
| 3  |                  |                   |  |               | Hydrophytic Vegetati 1 - Rapid Test for                                    |  | rotation          |  |
| 4  |                  |                   |  |               | 2 - Dominance Tes  |  | jetation          |  |
| 5<br>6                                       |                  |                   |  |               | 3 - Prevalence Ind   |  |                   |  |
| 7  |                  |                   |  |               | _   4 - Morphological /  | Adaptations <sup>1</sup> (Pr                         | ovide supporting  |  |
| 8.   |                  |                   |  |               |  | s or on a separa                                     |                   |  |
| 9  |                  |                   |  |               | Problematic Hydro  | phytic Vegetatio                                     | on' (Explain)     |  |
| 10   |                  |                   |  |               | _ Indicators of hydric so  | il and wetland h                                     | vdrology must     |  |
| Woody Vine Stratum (Plot size: 30 ft i       | r)               | 100%              | = Total  | Cover         | be present, unless dist  |  |                   |  |
| 1  |                  |                   |  |               | _ Hydrophytic  |  |                   |  |
| 2  |                  |                   |  |               | Vegetation Present? Ye   | esNo   |                   |  |
|  |                  |                   | = Total  | Cover         | Present? Te  | .s NO  |                   |  |
| Remarks: (Include photo numbers here         |                  | ite sheet.)       |  |               |  |  |                   |  |
| Hydrophytic vegetation p                     | oresent.         |                   |  |               |  |  |                   |  |
|  |                  |                   |  |               |  |  |                   |  |

SOIL Sampling Point: 1-S

| Profile Desc                           | ription: (Describe                     | to the depth    | needed to docum        | nent the                 | indicator          | or confirn        | n the absence of         | indicators.)                            |
|--|--|-----------------|------------------------|--------------------------|--------------------|-------------------|--------------------------|---|
| Depth                                  | Matrix                                 |                 | Redo                   | x Feature                | s                  |                   |                          |   |
| (inches)                               | Color (moist)                          | %               | Color (moist)          | %                        | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                  | Remarks                                 |
| 0 - 20                                 | 10YR 2.5/1                             | <u>95</u> 1     | IOYR 5/6               | 5                        | <u> </u>           | <u>M</u>          | Silty Clay               |   |
| -                                      |  |                 |                        |                          |                    |                   |                          |   |
|  |  |                 |                        |                          |                    |                   |                          |   |
|  |  |                 |                        |                          |                    |                   |                          |   |
| l — —                                  |  |                 |                        |                          |                    |                   |                          |   |
| <u> </u>                               |  |                 |                        |                          |                    |                   |                          |   |
|  |  |                 |                        |                          |                    |                   |                          |   |
| -                                      |  |                 |                        |                          |                    |                   |                          |   |
| <sup>1</sup> Type: C=C                 | oncentration, D=Dep                    | oletion. RM=R   | Reduced Matrix, MS     | S=Masked                 | d Sand Gr          | ains.             | <sup>2</sup> Location: P | L=Pore Lining, M=Matrix.                |
| Hydric Soil                            |  | ,               | ,                      |                          |                    |                   |                          | Problematic Hydric Soils <sup>3</sup> : |
| Histosol                               | (A1)                                   |                 | Sandy C                | Sleyed Ma                | atrix (S4)         |                   | Coast Pra                | irie Redox (A16)                        |
| Histic E                               | oipedon (A2)                           |                 | Sandy F                | Redox (S5                | 5)                 |                   | Dark Surfa               | ace (S7)                                |
| Black Histic (A3) Stripped Matrix (S6) |  |                 |                        |                          |                    |                   |                          | ganese Masses (F12)                     |
| 1 - ' "                                | en Sulfide (A4)                        |                 |                        |                          | neral (F1)         |                   |                          | low Dark Surface (TF12)                 |
|  | d Layers (A5)                          |                 |                        | Gleyed M                 |                    |                   | Other (Ex                | plain in Remarks)                       |
| ı —                                    | ick (A10)<br>d Below Dark Surfac       | · (A11)         |                        | d Matrix (<br>Dark Surfa | ,                  |                   |                          |   |
| ı — ·                                  | ark Surface (A12)                      | æ (ATT)         |                        |                          | irface (F7)        | `                 | 3Indicators of           | hydrophytic vegetation and              |
| _                                      | Mucky Mineral (S1)                     |                 |                        | Depressio                | ,                  | ,                 |                          | ydrology must be present,               |
| ı —                                    | icky Peat or Peat (S                   | 3)              | _                      |                          | ( /                |                   |                          | sturbed or problematic.                 |
| Restrictive                            | Layer (if observed)                    | :               |                        |                          |                    |                   |                          |   |
| Type:                                  |  |                 | _                      |                          |                    |                   |                          |   |
| Depth (in                              | ches):                                 |                 | _                      |                          |                    |                   | Hydric Soil Pre          | esent? Yes No                           |
| Remarks:                               |  |                 |                        |                          |                    |                   |                          |   |
| Lludria                                | acil procest                           |                 |                        |                          |                    |                   |                          |   |
| Hydric :                               | soil present.                          |                 |                        |                          |                    |                   |                          |   |
|  |  |                 |                        |                          |                    |                   |                          |   |
|  |  |                 |                        |                          |                    |                   |                          |   |
| HYDROLO                                | GY                                     |                 |                        |                          |                    |                   |                          |   |
| Wetland Hy                             | drology Indicators                     | :               |                        |                          |                    |                   |                          |   |
| Primary India                          | cators (minimum of                     | one is required | d; check all that ap   | ply)                     |                    |                   | Secondary                | Indicators (minimum of two required)    |
| Surface                                | Water (A1)                             |                 | Water-Stai             | ned Leav                 | es (B9)            |                   | Surface                  | e Soil Cracks (B6)                      |
| High Wa                                | ater Table (A2)                        |                 | Aquatic Fa             | una (B13                 | )                  |                   | Drainag                  | ge Patterns (B10)                       |
| ✓ Saturation                           | on (A3)                                |                 | True Aqua              |                          |                    |                   | Dry-Sea                  | ason Water Table (C2)                   |
| Water M                                | larks (B1)                             |                 | Hydrogen               | Sulfide O                | dor (C1)           |                   | Crayfisl                 | h Burrows (C8)                          |
| Sedimer                                | nt Deposits (B2)                       |                 | Oxidized F             | Rhizosphe                | res on Liv         | ing Roots         | (C3) Saturat             | ion Visible on Aerial Imagery (C9)      |
| Drift De                               | oosits (B3)                            |                 | Presence               | of Reduce                | ed Iron (C         | 4)                | Stunted                  | d or Stressed Plants (D1)               |
| Algal Ma                               | at or Crust (B4)                       |                 | Recent Iro             | n Reducti                | on in Tille        | d Soils (Ce       | 6) Geomo                 | rphic Position (D2)                     |
| Iron Dep                               | oosits (B5)                            |                 | Thin Muck              | Surface (                | (C7)               |                   | ✓ FAC-Ne                 | eutral Test (D5)                        |
| Inundati                               | on Visible on Aerial                   | Imagery (B7)    | Gauge or \             | Well Data                | (D9)               |                   |                          |   |
| Sparsely                               | Vegetated Concav                       | e Surface (B8   | B) Other (Exp          | lain in Re               | emarks)            |                   |                          |   |
| Field Obser                            |  |                 | ,                      |                          |                    |                   |                          |   |
| Surface Wat                            |  |                 | Depth (inc             |                          |                    |                   |                          |   |
| Water Table                            |  |                 | Depth (inc             |                          |                    | _                 |                          |   |
| Saturation P                           |  | res 🖊 No        | Depth (inc             | ches): 0                 |                    | Wetl              | and Hydrology P          | resent? Yes No                          |
| (includes cap                          | oillary fringe)<br>corded Data (strean | n dauge moni    | itoring well gerial    | photos pr                | evious ins         | nections          | if available:            |   |
| Describe ive                           | corded Data (Stream                    | r gauge, mom    | itoring well, aerial p | motos, pi                | evious iris        | spections),       | ii avallable.            |   |
| Remarks:                               |  |                 |                        |                          |                    |                   |                          |   |
|  | l hydrology                            | nrocont         |                        |                          |                    |                   |                          |   |
| vvetianc                               | l hydrology                            | hieseiil.       |                        |                          |                    |                   |                          |   |
|  |  |                 |                        |                          |                    |                   |                          |   |
| I                                      |  |                 |                        |                          |                    |                   |                          |   |

| Project/Site: AEP Fostoria to Lima                                |                | City/County: Findlay/Hancock Sampling Date: 2022-06 |                 |                                       |  |  |  |  |
|---|----------------|---|-----------------|---------------------------------------|--|--|--|--|
| Applicant/Owner: AEP  |                |   |                 | State: Ohio                           | Sampling Point: 1-S/T UPL                    |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   |                | Section   | , Township, Ra  | nge: OH01 T2N R11E                    | SN31   |  |  |  |
| Landform (hillslope, terrace, etc.): Flat                         |                |   | Local relief    | (concave, convex, none):              | None   |  |  |  |
| Slope (%): 0 Lat: 41.087043                                       | ι              | Long: -83.648641 Datum: WGS 84                      |                 |                                       |  |  |  |  |
| Soil Map Unit Name: SkB   |                | NWI classification: N/A                             |                 |                                       |  |  |  |  |
| Are climatic / hydrologic conditions on the site typical for this | s time of yea  | r? Ye   | s No _          | (If no, explain in R                  | emarks.)                                     |  |  |  |
| Are Vegetation, Soil, or Hydrology s                              | ignificantly o | disturbe  | ed? Are         | 'Normal Circumstances" p              | present? Yes No                              |  |  |  |
| Are Vegetation, Soil, or Hydrology n                              | aturally prob  | olemati   | ic? (If ne      | eded, explain any answe               | rs in Remarks.)                              |  |  |  |
| SUMMARY OF FINDINGS - Attach site map                             | showing        | samp  | oling point l   | ocations, transects                   | , important features, etc.                   |  |  |  |
| Hydrophytic Vegetation Present? Yes N                             | o              |   |                 |                                       |  |  |  |  |
| Hydric Soil Present? Yes N  | o              |   | ls the Sampled  |                                       |  |  |  |  |
| Wetland Hydrology Present? Yes N                                  | o_ <u>/</u>    | '   | within a Wetlar | 1d? Yes                               | No   |  |  |  |
| Remarks:  |                |   |                 |                                       |  |  |  |  |
| Upland point for Wetland 1-S and W                                | Vetland        | 1-T   | . Disturbe      | ed by adjacent l                      | and use.                                     |  |  |  |
| VECETATION Lies esigntific names of plants                        |                |   |                 |                                       |  |  |  |  |
| <b>VEGETATION</b> – Use scientific names of plants.               | Absolute       | Domir   | nant Indicator  | Dominance Test work                   | shoot:                                       |  |  |  |
| Tree Stratum (Plot size: 30 ft r )                                |                |   | es? Status      | Number of Dominant Sp                 |  |  |  |  |
| 1   |                |   |                 | That Are OBL, FACW, o                 |  |  |  |  |
| 2   |                |   |                 | Total Number of Domina                |  |  |  |  |
| 3   |                |   |                 | Species Across All Stra               | ta: <u>3</u> (B)                             |  |  |  |
| <b>4</b>  |                |   |                 | Percent of Dominant Sp                | pecies                                       |  |  |  |
|   |                |   | Cover           | That Are OBL, FACW, o                 | or FAC: 33.3 (A/B)                           |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                |   |                 | Prevalence Index worl                 |  |  |  |  |
| 1   |                |   |                 | Total % Cover of:                     |  |  |  |  |
| 2   |                |   |                 |                                       | x 1 = 0                                      |  |  |  |
| 3   |                |   |                 |                                       | x = 0<br>x = 60                              |  |  |  |
| 4   |                |   |                 |                                       | $\times 4 = \frac{320}{320}$                 |  |  |  |
| 5   |                |   | Cover           |                                       | x 5 = 0                                      |  |  |  |
| Herb Stratum (Plot size: 5 ft r )                                 |                |   |                 |                                       | (A) 380 (B)                                  |  |  |  |
| 1. Cirsium arvense  | 40 30          |   | - FACU<br>FACU  | Prevalence Index                      | 3.80   |  |  |  |
| 2. Festuca rubra Apocynum cannabinum                              | 20             |   | FACU FACU       | Hydrophytic Vegetation                |  |  |  |  |
| 4. Dipsacus fullonum  | 10             |   | — FACU          | 1 - Rapid Test for H                  |  |  |  |  |
| 5   |                |   |                 | 2 - Dominance Tes                     |  |  |  |  |
| 6.  |                |   |                 | 3 - Prevalence Inde                   |  |  |  |  |
| 7.  |                |   |                 | 4 - Morphological A                   | Adaptations <sup>1</sup> (Provide supporting |  |  |  |
| 8   |                |   |                 | 1                                     | s or on a separate sheet)                    |  |  |  |
| 9   |                |   |                 | Problematic Hydror                    | phytic Vegetation <sup>1</sup> (Explain)     |  |  |  |
| 10  |                |   |                 | <sup>1</sup> Indicators of hydric soi | l and wetland hydrology must                 |  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 100%           | = Total   | Cover           | be present, unless distu              |  |  |  |  |
| 1   |                |   |                 | Hydrophytic                           |  |  |  |  |
| 2   |                |   |                 | Vegetation                            |  |  |  |  |
|   |                |   | Cover           | Present? Yes                          | s No   |  |  |  |
| Remarks: (Include photo numbers here or on a separate s           | sheet.)        |   |                 |                                       |  |  |  |  |
| Hydrophytic vegetation absent.                                    |                |   |                 |                                       |  |  |  |  |
|   |                |   |                 |                                       |  |  |  |  |

SOIL Sampling Point: 1-S/T UPL

| Profile Des  | cription: (Describe           | to the depth n   | eeded to docu     | nent the i               | ndicator           | or confirm       | n the absence of i | ndicators.)                                  |
|--------------|-------------------------------|------------------|-------------------|--------------------------|--------------------|------------------|--------------------|--|
| Depth        | Matrix                        |                  | Redo              | x Feature                |                    |                  |                    |  |
| (inches)     | Color (moist)                 | %                | Color (moist)     | %                        | _Type <sup>1</sup> | Loc <sup>2</sup> |                    | Remarks                                      |
| 0-8          | 10YR 5/3                      | _ <u>100</u>     |                   |                          |                    |                  | Silty Clay         |  |
|              |                               |                  |                   |                          |                    |                  |                    |  |
| -            |                               |                  |                   |                          |                    |                  |                    |  |
|              |                               |                  |                   |                          |                    |                  |                    |  |
|              |                               |                  |                   |                          |                    |                  |                    |  |
|              |                               |                  |                   |                          |                    |                  |                    |  |
| <u> </u>     |                               | - — —            |                   | - ——                     |                    |                  |                    |  |
|              |                               | - — —            |                   |                          |                    |                  |                    |  |
|              | oncentration, D=Dep           | oletion, RM=Red  | duced Matrix, M   | S=Masked                 | Sand Gra           | ains.            |                    | =Pore Lining, M=Matrix.                      |
| Hydric Soil  |                               |                  |                   |                          |                    |                  |                    | Problematic Hydric Soils <sup>3</sup> :      |
| Histosol     | , ,                           |                  |                   | Gleyed Ma                |                    |                  | _                  | rie Redox (A16)                              |
| I —          | pipedon (A2)                  |                  |                   | Redox (S5                | -                  |                  | Dark Surfa         |  |
| ı —          | istic (A3)<br>en Sulfide (A4) |                  |                   | d Matrix (S<br>Mucky Mir | ,                  |                  |                    | anese Masses (F12)<br>ow Dark Surface (TF12) |
|              | d Layers (A5)                 |                  |                   | Gleyed Ma                |                    |                  |                    | lain in Remarks)                             |
| ı —          | uck (A10)                     |                  |                   | d Matrix (I              |                    |                  | Other (Exp         | iaiii iii Neiliaiks)                         |
| ı —          | d Below Dark Surfac           | e (A11)          |                   | Dark Surfa               |                    |                  |                    |  |
| ı — ·        | ark Surface (A12)             | ( ,              | _                 | d Dark Su                |                    | )                | 3Indicators of h   | nydrophytic vegetation and                   |
| _            | Mucky Mineral (S1)            |                  |                   | Depression               |                    |                  |                    | drology must be present,                     |
| 5 cm Mi      | ucky Peat or Peat (S          | 3)               |                   |                          |                    |                  | unless dist        | urbed or problematic.                        |
|              | Layer (if observed)           | :                |                   |                          |                    |                  |                    |  |
| Туре: _G     |                               |                  | -                 |                          |                    |                  | Hudria Sail Bra    | sent? Yes No                                 |
| Depth (in    | ches): <u>8</u>               |                  | _                 |                          |                    |                  | nyuric Son Fres    | sentr res NO                                 |
| Remarks:     |                               |                  |                   |                          |                    |                  | •                  |  |
| Hydric       | soil absent.                  |                  |                   |                          |                    |                  |                    |  |
| HYDROLO      | GY                            |                  |                   |                          |                    |                  |                    |  |
| Wetland Hy   | drology Indicators            |                  |                   |                          |                    |                  |                    |  |
| Primary Indi | cators (minimum of            | one is required; | check all that ag | ply)                     |                    |                  | Secondary Ir       | ndicators (minimum of two required)          |
| Surface      | Water (A1)                    |                  | Water-Sta         | ined Leav                | es (B9)            |                  | Surface            | Soil Cracks (B6)                             |
| High Wa      | ater Table (A2)               |                  | Aquatic Fa        | auna (B13                | )                  |                  | Drainage           | e Patterns (B10)                             |
| Saturati     | on (A3)                       |                  | True Aqua         | tic Plants               | (B14)              |                  | Dry-Sea            | son Water Table (C2)                         |
| Water M      | farks (B1)                    |                  | Hydrogen          | Sulfide O                | dor (C1)           |                  | Crayfish           | Burrows (C8)                                 |
| Sedime       | nt Deposits (B2)              |                  | Oxidized I        | Rhizosphe                | res on Livi        | ing Roots        | (C3) Saturation    | on Visible on Aerial Imagery (C9)            |
| Drift De     | posits (B3)                   |                  | Presence          | of Reduce                | d Iron (C4         | 1)               | Stunted            | or Stressed Plants (D1)                      |
| Algal Ma     | at or Crust (B4)              |                  | Recent Iro        | n Reducti                | on in Tilled       | d Soils (C       | 6) Geomor          | phic Position (D2)                           |
| Iron De      | posits (B5)                   |                  | Thin Muck         | Surface (                | C7)                |                  | FAC-Ne             | utral Test (D5)                              |
| Inundati     | ion Visible on Aerial         | Imagery (B7)     | Gauge or          | Well Data                | (D9)               |                  |                    |  |
| Sparsel      | y Vegetated Concav            | e Surface (B8)   | Other (Ex         | olain in Re              | marks)             |                  |                    |  |
| Field Obser  |                               |                  |                   |                          |                    |                  |                    |  |
| Surface Wat  | ter Present?                  | 'es No _         | Depth (in         | ches):                   |                    | _                |                    |  |
| Water Table  |                               |                  | Depth (in         |                          |                    |                  |                    |  |
| Saturation P | resent?                       | 'es No _         | Depth (in         | ches):                   |                    | _ Wetl           | and Hydrology Pr   | esent? Yes No                                |
|              | corded Data (stream           | gauge, monito    | ring well, aerial | photos, pr               | evious ins         | pections),       | if available:      |  |
| Remarks:     |                               |                  |                   |                          |                    |                  |                    |  |
|              | d hydrology                   | ahsant           |                   |                          |                    |                  |                    |  |
| VVELIAIIC    | a riyarology                  | anseiit.         |                   |                          |                    |                  |                    |  |
|              |                               |                  |                   |                          |                    |                  |                    |  |

| Project/Site: AEP Fostoria to Lima                                | (                   | City/Co | ounty: | Fostoria            | a/Hancock                                       | Sampling Date: 202                                 | <u>2-06-29</u>   |  |
|---|---------------------|---------|--------|---------------------|---|--|------------------|--|
| Applicant/Owner: AEP  |                     |         |        |                     | State: Ohio Sampling Point: 1-SP-002            |  |                  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   | ;                   | Section | n, Tov | wnship, Ra          | nge: OH01 T2N R12E                              | SN11   |                  |  |
| Landform (hillslope, terrace, etc.): Flat                         |                     |         | ı      | ocal relief         | (concave, convex, none):                        | None   |                  |  |
| Slope (%): 0 Lat: 41.144991                                       |                     | Long: _ | -83.   | .450541             |   | Datum: WGS 84                                      |                  |  |
| Soil Map Unit Name: Blg1A1  |                     |         |        |                     | NWI classific                                   | ation: N/A   |                  |  |
| Are climatic / hydrologic conditions on the site typical for this |                     |         |        |                     |   |  |                  |  |
| Are Vegetation, Soil, or Hydrology si                             |                     |         |        |                     |   |  | No               |  |
| Are Vegetation, Soil, or Hydrology na                             |                     |         |        |                     | eeded, explain any answe                        |  |                  |  |
| SUMMARY OF FINDINGS – Attach site map s                           |                     |         |        |                     |   |  | res, etc.        |  |
| Hydrophytic Vegetation Present? Yes No                            | · ·                 |         |        |                     |   |  |                  |  |
| Hydric Soil Present? Yes No                                       |                     |         |        | e Sampled           |   | .,   |                  |  |
| Wetland Hydrology Present? Yes No                                 |                     |         | withi  | in a Wetlar         | nd? Yes   | No   |                  |  |
| Remarks:  |                     |         |        |                     |   |  |                  |  |
| Not a wetland. Bank of ditch line.                                |                     |         |        |                     |   |  |                  |  |
| <b>VEGETATION</b> – Use scientific names of plants.               |                     |         |        |                     |   |  |                  |  |
| Tree Stratum (Plot size: 30 ft r )                                | Absolute<br>% Cover |         |        | Indicator<br>Status | Dominance Test work                             |  |                  |  |
| 1   |                     |         |        |                     | Number of Dominant Sp<br>That Are OBL, FACW, of |  | (A)              |  |
| 2.  |                     |         |        |                     | Total Number of Domin                           |  | _ ` ` ′          |  |
| 3   |                     |         |        |                     | Species Across All Stra                         | _  | (B)              |  |
| 4   |                     |         |        |                     | Percent of Dominant Sp                          | pecies   |                  |  |
| 5   |                     |         |        |                     | That Are OBL, FACW,                             |  | (A/B)            |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                     | = Tota  | ıl Cov | er                  | Prevalence Index work                           | ksheet:  |                  |  |
| 1   |                     |         |        |                     | Total % Cover of:                               | Multiply by:                                       |                  |  |
| 2.  |                     |         |        |                     | OBL species 0                                   | x 1 = 0  |                  |  |
| 3   |                     |         |        |                     |   | x 2 = <u>0</u>                                     |                  |  |
| 4   |                     |         |        |                     |   | x 3 = 0  |                  |  |
| 5   |                     |         |        |                     | FACU species 100                                |  | _                |  |
| Herb Stratum (Plot size: 5 ft r )                                 |                     | = Tota  | l Cov  | er                  | UPL species 0                                   | $\times 5 = \frac{0}{400}$                         | — <u>.</u>       |  |
| 1. Festuca rubra  | 50                  | V       | •      | FACU                | Column Totals: 100                              | (A) <u>400</u>                                     | (B)              |  |
| 2. Cirsium arvense  | 20                  |         |        | FACU                | Prevalence Index                                | = B/A = 4.00                                       |                  |  |
| 3. Trifolium pratense   | 20                  |         | _      | FACU                | Hydrophytic Vegetation                          |  |                  |  |
| 4. Taraxacum officinale   | 10                  |         |        | FACU                | 1 - Rapid Test for H                            | hydrophytic Vegetation                             |                  |  |
| 5   |                     |         |        |                     | 2 - Dominance Tes                               |  |                  |  |
| 6   |                     |         |        |                     | 3 - Prevalence Inde                             |  |                  |  |
| 7   |                     |         |        |                     | 4 - Morphological A                             | Adaptations' (Provide s<br>s or on a separate shee | upporting<br>et) |  |
| 8   |                     |         |        |                     | Problematic Hydron                              |  |                  |  |
| 9   |                     |         |        |                     | _   | , , , ,  | ,                |  |
| 10  | 100%                |         |        |                     | <sup>1</sup> Indicators of hydric soi           |  | y must           |  |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 10070               | = 10ta  | II COV | er                  | be present, unless distu                        | irbed or problematic.                              |                  |  |
| 1   |                     |         |        |                     | Hydrophytic                                     |  |                  |  |
| 2   |                     |         |        |                     | Vegetation                                      | s No   |                  |  |
|   |                     | = Tota  | l Cov  | er                  | Present? Yes                                    | > NO   |                  |  |
| Remarks: (Include photo numbers here or on a separate s           | sheet.)             |         |        |                     |   |  |                  |  |
| Hydrophytic vegetation absent.                                    |                     |         |        |                     |   |  |                  |  |
|   |                     |         |        |                     |   |  |                  |  |

SOIL Sampling Point: 1-SP-002

| Profile Des            | cription: (Describe             | to the depth          | needed to docur       | nent the                | indicator         | or confirm        | n the absence of in           | dicators.)                         |
|------------------------|---------------------------------|-----------------------|-----------------------|-------------------------|-------------------|-------------------|-------------------------------|------------------------------------|
| Depth                  | Matrix                          |                       |                       | x Feature               |                   |                   |                               |                                    |
| (inches)               | Color (moist)                   | %                     | Color (moist)         | %                       | Type <sup>1</sup> | _Loc <sup>2</sup> |                               | Remarks                            |
| 0-8                    | 10YR 5/3                        | _ <u>97</u>           | 10YR 5/6              | 3                       | _ <u>C</u>        | <u>M</u>          | Silty Clay                    |                                    |
|                        |                                 |                       |                       |                         |                   |                   |                               |                                    |
|                        |                                 |                       |                       |                         |                   |                   |                               |                                    |
|                        |                                 |                       |                       |                         |                   |                   |                               |                                    |
|                        |                                 |                       |                       |                         |                   |                   |                               |                                    |
| <u> </u>               |                                 |                       |                       |                         |                   |                   |                               |                                    |
| l                      |                                 |                       |                       |                         |                   |                   |                               |                                    |
|                        |                                 |                       |                       |                         |                   |                   |                               |                                    |
| <sup>1</sup> Type: C=C | oncentration, D=De              | pletion, RM=F         | Reduced Matrix, M     | S=Maske                 | d Sand Gr         | ains.             | <sup>2</sup> Location: PL=    | Pore Lining, M=Matrix.             |
| Hydric Soil            |                                 |                       |                       |                         |                   |                   |                               | roblematic Hydric Soils³:          |
| Histosol               | I (A1)                          |                       | Sandy 0               | Gleyed M                | atrix (S4)        |                   | Coast Prairi                  | e Redox (A16)                      |
| Histic E               | pipedon (A2)                    |                       | Sandy I               | Redox (S                | 5)                |                   | Dark Surfac                   | e (S7)                             |
| ı —                    | istic (A3)                      |                       |                       | d Matrix (              | ,                 |                   |                               | nese Masses (F12)                  |
|                        | en Sulfide (A4)                 |                       |                       |                         | neral (F1)        |                   |                               | w Dark Surface (TF12)              |
| ı —                    | d Layers (A5)                   |                       |                       |                         | atrix (F2)        |                   | Other (Expla                  | ain in Remarks)                    |
| ı —                    | uck (A10)<br>d Below Dark Surfa | co (A11)              |                       | d Matrix (<br>Dark Surf |                   |                   |                               |                                    |
| ı — ·                  | ark Surface (A12)               | ce (ATT)              | _                     |                         | urface (F7        | )                 | <sup>3</sup> Indicators of hy | drophytic vegetation and           |
| _                      | Mucky Mineral (S1)              |                       |                       | Depression              | ,                 | ,                 |                               | rology must be present,            |
|                        | ucky Peat or Peat (S            | 33)                   | _                     |                         | ,                 |                   | •                             | rbed or problematic.               |
| Restrictive            | Layer (if observed              | ):                    |                       |                         |                   |                   |                               |                                    |
| Type: G                | ravel                           |                       |                       |                         |                   |                   |                               |                                    |
| Depth (in              | ches): 8                        |                       | _                     |                         |                   |                   | Hydric Soil Pres              | ent? Yes No                        |
| Remarks:               |                                 |                       |                       |                         |                   |                   |                               |                                    |
| Hydric                 | soil absent.                    |                       |                       |                         |                   |                   |                               |                                    |
| HYDROLO                | GY                              |                       |                       |                         |                   |                   |                               |                                    |
| Wetland Hy             | drology Indicators              | :                     |                       |                         |                   |                   |                               |                                    |
| Primary Indi           | cators (minimum of              | one is require        | ed; check all that ap | ply)                    |                   |                   | Secondary Inc                 | dicators (minimum of two required) |
| Surface                | Water (A1)                      |                       | Water-Sta             | ined Leav               | /es (B9)          |                   | Surface S                     | Soil Cracks (B6)                   |
| ı —                    | ater Table (A2)                 |                       | Aquatic Fa            | ,                       | ,                 |                   | _ •                           | Patterns (B10)                     |
| Saturati               | ,                               |                       | True Aqua             |                         | ` '               |                   | _ ′                           | on Water Table (C2)                |
|                        | farks (B1)                      |                       | Hydrogen              |                         |                   |                   |                               | Burrows (C8)                       |
|                        | nt Deposits (B2)                |                       | Oxidized F            |                         |                   | -                 |                               | n Visible on Aerial Imagery (C9)   |
| ı —                    | posits (B3)                     |                       | Presence              |                         |                   | ,                 | _                             | r Stressed Plants (D1)             |
| -                      | at or Crust (B4)                |                       | Recent Iro            |                         |                   | d Soils (Ci       | . — .                         | hic Position (D2)                  |
| I — ·                  | posits (B5)                     | I (D7)                | Thin Muck             |                         |                   |                   | FAC-Neu                       | tral Test (D5)                     |
| ı —                    | ion Visible on Aerial           |                       |                       |                         | , ,               |                   |                               |                                    |
|                        | y Vegetated Conca               | /e Suпасе (В          | 8) Other (Exp         | Diain in Re             | emarks)           |                   |                               |                                    |
| Field Obser            |                                 | V N                   | o Depth (in           | -1 > -                  |                   |                   |                               |                                    |
| Surface Wat            |                                 |                       |                       |                         |                   |                   |                               |                                    |
| Water Table            |                                 |                       | o Depth (in           |                         |                   |                   |                               |                                    |
|                        | pillary fringe)                 |                       | o Depth (in           |                         |                   |                   |                               | sent? Yes No                       |
| Describe Re            | corded Data (strear             | n gauge, mor          | illoring well, aerial | priotos, p              | evious in         | spections),       | ii avaliable:                 |                                    |
| Remarks:               |                                 |                       |                       |                         |                   |                   |                               |                                    |
| Wetland                | hydrology                       | aheent                |                       |                         |                   |                   |                               |                                    |
| vv = tiailt            | d hydrology                     | abs <del>c</del> iil. |                       |                         |                   |                   |                               |                                    |
|                        |                                 |                       |                       |                         |                   |                   |                               |                                    |

| Project/Site: AEP Fostoria to Lima                             | (               | City/Co | ounty: | Fostoria    | /Hancock   | Sampling Date: 2                         | 022-06-29            |
|--|-----------------|---------|--------|-------------|--|--|----------------------|
| Applicant/Owner: AEP   |                 |         |        |             | State: Ohio  | Sampling Point: 1                        | -SP-003              |
| Investigator(s): Beth Hollinden, Chris Davisson                | ;               | Section | n, Tov | vnship, Rai | nge: OH01 T2N R12E   | SN17                                     |                      |
| Landform (hillslope, terrace, etc.): Flat                      |                 |         | L      | ocal relief | (concave, convex, none):   | None                                     |                      |
| Slope (%): 0 Lat: 41.130927                                    | ו               | Long:   | -83.   | 497738      |  | Datum: WGS 84                            |                      |
| Soil Map Unit Name: Blg1A1                                     |                 |         |        |             | NWI classific  | ation: N/A                               |                      |
| Are climatic / hydrologic conditions on the site typical for t | his time of yea | ar? Ye  | s      |             |  |  |                      |
| Are Vegetation, Soil, or Hydrology                             | _ significantly | disturb | ed?    | Are "       | Normal Circumstances" p  | resent? Yes                              | No                   |
| Are Vegetation, Soil, or Hydrology                             |                 |         |        |             | eded, explain any answe  |  |                      |
| SUMMARY OF FINDINGS - Attach site ma                           | p showing       | sam     | pling  | g point le  | ocations, transects  | , important fea                          | tures, etc.          |
| Hydrophytic Vegetation Present? Yes                            | No              |         |        |             |  |  |                      |
| Hydric Soil Present? Yes                                       |                 |         |        | Sampled     |  |  |                      |
| Wetland Hydrology Present? Yes                                 | No              |         | withi  | n a Wetlan  | nd? Yes  | No                                       |                      |
| Remarks:   |                 |         |        |             |  |  |                      |
| Not a wetland. Bank of ditch line.                             | Borderin        | g ag    | gric   | ultural     | field.   |  |                      |
| VEGETATION – Use scientific names of plant                     | ts.             |         |        |             |  |  |                      |
| 20.4   | Absolute        |         |        | Indicator   | Dominance Test work  | sheet:                                   |                      |
| Tree Stratum (Plot size: 30 ft r ) 1.                          | % Cover         |         |        |             | Number of Dominant Sp<br>That Are OBL, FACW, of                    |  | (A)                  |
| 2  |                 |         |        |             | Total Number of Domin  | ant                                      |                      |
| 3  |                 |         |        |             | Species Across All Stra  | ta: <u>3</u>                             | (B)                  |
| 4  |                 |         | _      |             | Percent of Dominant Sp   |  |                      |
| 5  |                 | = Tota  | L Cov  | <br>er      | That Are OBL, FACW, o  | or FAC: 0                                | (A/B)                |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                    |                 | , 0,0   |        | 01          | Prevalence Index wor   | ksheet:                                  |                      |
| 1  |                 |         |        |             | Total % Cover of:  |  | by:                  |
| 2  |                 |         |        |             | 1  | x 1 = 0                                  |                      |
| 3  |                 |         |        |             | · —  | x 2 = 0                                  |                      |
| 4  |                 |         |        |             |  | x 3 = 0<br>x 4 = 360                     |                      |
| 5  |                 |         |        |             | FACU species 90 UPL species 0                                      |  |                      |
| Herb Stratum (Plot size: 5 ft r )                              |                 | = Tota  | I Cov  | er          | Column Totals: 90  | (A) 360                                  | (B)                  |
| 1. Festuca rubra   | 50              |         | _      | FACU        |  |  | (5)                  |
| 2. Digitaria bicornis  | _ 20            |         |        | FACU        | Prevalence Index   |  |                      |
| 3. Melilotus officinalis                                       | _ 20            |         |        | FACU_       | Hydrophytic Vegetation   |  |                      |
| 4. Zea mays  | 10              |         |        |             | 1 - Rapid Test for H   |  | ion                  |
| 5  |                 |         |        |             | 2 - Dominance Tes  |  |                      |
| 6  |                 |         |        |             | 3 - Prevalence Inde  |  |                      |
| 7  |                 |         |        |             | 4 - Morphological A<br>data in Remarks                             | adaptations (Provides or on a separate s | e suppoπing<br>heet) |
| 8  |                 |         |        |             | Problematic Hydro  |  |                      |
| 9  |                 |         | _      |             |  |  |                      |
| 10   | 100%            | = Tota  | l Cov  | er          | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu |  |                      |
| 1  |                 |         |        |             | Hydrophytic  |  |                      |
| 2.   |                 |         |        |             | Vegetation   |  | ,                    |
|  |                 | = Tota  | l Cov  | er          | Present? Yes   | s No                                     |                      |
| Remarks: (Include photo numbers here or on a separat           | e sheet.)       |         |        |             |  |  |                      |
| Hydrophytic vegetation absent.                                 |                 |         |        |             |  |  |                      |

Soll Sampling Point: 1-SP-003

|  |  | reeded to docum   | ent the i   | ilaioutoi i  | or commi          | n the absence of ir   | idicators.)   |
|--|--|---|---|--|-------------------|---|---|
| Depth Matrix   |  |   | Features  | 5  |                   |   |   |
| (inches) Color (moist)   |  | Color (moist)   | <u>%</u>  | _Type <sup>1</sup>   | Loc <sup>2</sup>  | Texture   | Remarks   |
| 0 - 20 10YR 5/3  | <u>100</u>   |   |   |  |                   | Silty Clay  |   |
| -  |  |   |   |  |                   |   |   |
| -  |  |   |   |  |                   |   |   |
|  |  |   |   |  |                   |   |   |
|  |  |   |   |  |                   |   |   |
| <del></del>  |  |   |   |  |                   |   |   |
|  |  |   |   |  |                   |   |   |
|  |  |   |   |  |                   |   |   |
| <sup>1</sup> Type: C=Concentration, D=D  | epletion, RM=Re  | duced Matrix, MS  | =Masked   | Sand Gra   | ains.             | <sup>2</sup> Location: PL   | =Pore Lining, M=Matrix.   |
| Hydric Soil Indicators:  |  |   |   |  |                   | Indicators for I  | Problematic Hydric Soils <sup>3</sup> :   |
| Histosol (A1)  |  | Sandy G   | eyed Ma   | trix (S4)  |                   | Coast Prair   | ie Redox (A16)  |
| Histic Epipedon (A2)   |  | Sandy Re  |   | -  |                   | Dark Surfac   |   |
| Black Histic (A3)  |  | Stripped  |   | ,  |                   |   | nese Masses (F12)   |
| Hydrogen Sulfide (A4)  |  | Loamy M   |   |  |                   |   | w Dark Surface (TF12)   |
| Stratified Layers (A5) 2 cm Muck (A10)   |  | Loamy G<br>Depleted   | •   | , ,  |                   | Other (Exp  | ain in Remarks)   |
| Depleted Below Dark Surfa  | ace (A11)  | Redox Da  |   |  |                   |   |   |
| Thick Dark Surface (A12)   | 400 (/ 11 1)   | _   |   | rface (F7)   |                   | 3Indicators of h  | ydrophytic vegetation and   |
| Sandy Mucky Mineral (S1)   | )  | Redox Do  |   | , ,  |                   |   | Irology must be present,  |
| 5 cm Mucky Peat or Peat  | (S3)   |   |   |  |                   | unless dist   | urbed or problematic.   |
| Restrictive Layer (if observed   | d):  |   |   |  |                   |   |   |
| Type:  |  | _   |   |  |                   | Undria Cail Drea  | ant2 Van Na V   |
| Depth (inches):  |  | _   |   |  |                   | Hydric Soil Pres  | sent? Yes No  |
| Remarks:   |  |   |   |  |                   |   |   |
| Hydric soil absent.  |  |   |   |  |                   |   |   |
| Trydric 3011 abserts   | •  |   |   |  |                   |   |   |
|  |  |   |   |  |                   |   |   |
|  |  |   |   |  |                   |   |   |
| HYDROLOGY  |  |   |   |  |                   |   |   |
| Wetland Hydrology Indicator  |  |   |   |  |                   |   |   |
| Primary Indicators (minimum o  | f one is required:   | check all that app  | ly)   |  |                   | Secondary In  | dicators (minimum of two required)  |
| Surface Water (A1)   |  | Water-Stain   |   | (50)   |                   |   |   |
| High Water Table (A2)  |  | Aquatic Fau   |   | , ,  |                   | Surface   | Soil Cracks (B6)  |
| Saturation (A3)  |  |   | ına (B13)   | , ,  |                   |   | Soil Cracks (B6)<br>Patterns (B10)  |
| cataration (/ to/  |  | True Aquati   |   | )  |                   | Drainage  | , ,   |
| Water Marks (B1)   |  | True Aquati<br>Hydrogen S   | c Plants<br>ulfide Oc   | )<br>(B14)<br>dor (C1)   |                   | Drainage<br>Dry-Seas<br>Crayfish                                    | e Patterns (B10)<br>son Water Table (C2)<br>Burrows (C8)  |
| Water Marks (B1) Sediment Deposits (B2)  |  | True Aquati<br>Hydrogen S<br>Oxidized Rh  | c Plants<br>ulfide Od<br>nizospher  | (B14)<br>dor (C1)<br>res on Livi   | -                 | Drainage<br>Dry-Seas<br>Crayfish<br>(C3) Saturatio                  | e Patterns (B10)<br>son Water Table (C2)<br>Burrows (C8)<br>on Visible on Aerial Imagery (C9)   |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)  |  | True Aquati Hydrogen S Oxidized Rt Presence o   | c Plants<br>ulfide Oc<br>nizosphei<br>f Reduce  | (B14)<br>dor (C1)<br>res on Livi<br>d Iron (C4                           | <b>!</b> )        | Drainage Dry-Sease Crayfish (C3) Saturation Stunted                 | e Patterns (B10)<br>son Water Table (C2)<br>Burrows (C8)<br>on Visible on Aerial Imagery (C9)<br>or Stressed Plants (D1)                        |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)  |  | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron  | c Plants<br>Julfide Oc<br>nizosphei<br>Reduce<br>Reductio                                       | (B14)<br>(B14)<br>dor (C1)<br>res on Livi<br>d Iron (C4<br>on in Tilled  | <b>!</b> )        | Drainage Dry-Sease Crayfish (C3) Saturation Stunted (C3) Geomory    | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)   |  | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S  | c Plants<br>sulfide Oc<br>nizospher<br>f Reduce<br>Reduction<br>Surface (                       | (B14) dor (C1) res on Livi d Iron (C4 on in Tilled                       | <b>!</b> )        | Drainage Dry-Sease Crayfish (C3) Saturation Stunted (C3) Geomory    | e Patterns (B10)<br>son Water Table (C2)<br>Burrows (C8)<br>on Visible on Aerial Imagery (C9)<br>or Stressed Plants (D1)                        |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria   |  | True Aquati Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck S Gauge or W   | c Plants culfide Oc nizospher f Reduce Reductio Surface ( /ell Data                             | (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9)              | <b>!</b> )        | Drainage Dry-Sease Crayfish (C3) Saturation Stunted (C3) Geomory    | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca  |  | True Aquati Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck S Gauge or W   | c Plants culfide Oc nizospher f Reduce Reductio Surface (                                       | (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9)              | <b>!</b> )        | Drainage Dry-Sease Crayfish (C3) Saturation Stunted (C3) Geomory    | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca  | ave Surface (B8)   | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl                             | c Plants fulfide Oc nizospher f Reduce Reductio Surface (fell Data ain in Re                    | (B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks) | d Soils (C6       | Drainage Dry-Sease Crayfish (C3) Saturation Stunted (C3) Geomory    | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present?   | Yes No_  | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl                             | c Plants c Plants c Plants culfide Oc nizospher f Reduce Reductio Surface ( /ell Data ain in Re | (B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks) | l)<br>d Soils (C6 | Drainage Dry-Sease Crayfish (C3) Saturation Stunted (C3) Geomory    | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca  | Yes No   | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl.                            | c Plants culfide Oc nizospher f Reduce Reductic Surface ( /ell Data ain in Re nes): nes):       | (B14) (B14) res on Livi d Iron (C4 on in Tilled C7) (D9) marks)          | H)  d Soils (C6   | Drainage Dry-Sease Crayfish (C3) Saturation Stunted Geomory FAC-Net | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present?  | Yes No   | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl                             | c Plants culfide Oc nizospher f Reduce Reductic Surface ( /ell Data ain in Re nes): nes):       | (B14) (B14) res on Livi d Iron (C4 on in Tilled C7) (D9) marks)          | H)  d Soils (C6   | Drainage Dry-Sease Crayfish (C3) Saturation Stunted Geomory FAC-Net | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2)                 |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present?  | Yes No Yes | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl.  Depth (incl. Depth (incl. | c Plants culfide Oc nizospher f Reduce Reductic Surface ( /ell Data ain in Re nes): nes): nes): | (B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks) | d Soils (C6       | Drainage Dry-Seas Crayfish (C3) Saturatic Stunted Garage FAC-Net    | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)                                | Yes No Yes | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl.  Depth (incl. Depth (incl. | c Plants culfide Oc nizospher f Reduce Reductic Surface ( /ell Data ain in Re nes): nes): nes): | (B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks) | d Soils (C6       | Drainage Dry-Seas Crayfish (C3) Saturatic Stunted Garage FAC-Net    | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)                                | Yes No Yes | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl.  Depth (incl. Depth (incl. | c Plants culfide Oc nizospher f Reduce Reductic Surface ( /ell Data ain in Re nes): nes): nes): | (B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks) | d Soils (C6       | Drainage Dry-Seas Crayfish (C3) Saturatic Stunted Garage FAC-Net    | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streat | Yes No _<br>Yes No _<br>Yes No _<br>Yes No _<br>am gauge, monito   | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl.  Depth (incl. Depth (incl. | c Plants culfide Oc nizospher f Reduce Reductic Surface ( /ell Data ain in Re nes): nes): nes): | (B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks) | d Soils (C6       | Drainage Dry-Seas Crayfish (C3) Saturatic Stunted Garage FAC-Net    | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |
| Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streat | Yes No _<br>Yes No _<br>Yes No _<br>Yes No _<br>am gauge, monito   | True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl.  Depth (incl. Depth (incl. | c Plants culfide Oc nizospher f Reduce Reductic Surface ( /ell Data ain in Re nes): nes): nes): | (B14) (B14) dor (C1) res on Livi d Iron (C4 on in Tilled C7) (D9) marks) | d Soils (C6       | Drainage Dry-Seas Crayfish (C3) Saturatic Stunted Garage FAC-Net    | e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) utral Test (D5) |

| Project/Site: AEP Fostoria to Lima                               | C                   | City/Co | ounty: _F | ostoria            | h/Hancock Sampling Date: 2022-06-29  |
|--|---------------------|---------|-----------|--------------------|--|
| Applicant/Owner: AEP   |                     |         |           |                    | State: Ohio Sampling Point: 1-SP-004   |
| Investigator(s): Beth Hollinden, Chris Davisson                  | 8                   | Section | n, Towr   | iship, Rar         | nge: OH01 T2N R12E SN18  |
| Landform (hillslope, terrace, etc.): Hillslope                   |                     |         | Lo        | cal relief (       | (concave, convex, none): Convex  |
| Slope (%): 2 Lat: 41.123327                                      | L                   | ong: _  | -83.5     | 22921              | Datum: WGS 84  |
| Soil Map Unit Name: SoA  |                     |         |           |                    | NWI classification: R2UBH  |
| Are climatic / hydrologic conditions on the site typical for the | nis time of yea     | r? Ye   | es        | No                 | (If no, explain in Remarks.)   |
| Are Vegetation, Soil, or Hydrology                               | significantly d     | listurb | ed?       | Are "l             | Normal Circumstances" present? Yes No  |
| Are Vegetation, Soil, or Hydrology                               | naturally prob      | olemat  | tic?      | (If ne             | eded, explain any answers in Remarks.)   |
| SUMMARY OF FINDINGS - Attach site map                            | showing             | samı    | pling     | point lo           | ocations, transects, important features, etc.  |
| Hydrophytic Vegetation Present? Yes I                            | No                  |         |           |                    |  |
| Hydric Soil Present? Yes I                                       | No                  |         |           | Sampled            |  |
| Wetland Hydrology Present? Yes I                                 | No                  |         | within    | a Wetlan           | nd? Yes No   |
| Remarks:   |                     |         |           |                    |  |
| Not a wetland. Hillslope to stream.                              |                     |         |           |                    |  |
| VECETATION I les scientific nomes of plants                      |                     |         |           |                    |  |
| VEGETATION – Use scientific names of plants                      |                     | Dami    | inant lu  | diantar            | Daminana Tasturakahasti  |
| Tree Stratum (Plot size:30 ft r)                                 | Absolute<br>% Cover |         |           | ndicator<br>Status | Dominance Test worksheet:  Number of Dominant Species  |
| 1  |                     |         |           |                    | That Are OBL, FACW, or FAC: 2 (A)  |
| 2  |                     |         |           |                    | Total Number of Dominant   |
| 3  |                     |         |           |                    | Species Across All Strata: 3 (B)   |
| 4  |                     |         |           |                    | Percent of Dominant Species  |
| 5  |                     |         |           |                    | That Are OBL, FACW, or FAC: 66.7 (A/B)   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                      |                     | = Tota  | al Cover  |                    | Prevalence Index worksheet:  |
| 1  |                     |         |           |                    | Total % Cover of: Multiply by:   |
| 2  |                     |         |           |                    | OBL species 0 x 1 = 0  |
| 3  |                     |         |           |                    | FACW species <u>40</u> x 2 = <u>80</u>   |
| 4  |                     |         |           |                    | FAC species 20 x 3 = 60  |
| 5  |                     |         |           |                    | FACU species 40 x 4 = 160  |
| Herb Stratum (Plot size: 5 ft r )                                |                     | = Tota  | al Cover  | .                  | UPL species $0 \times 5 = 0$   |
| Bromus inermis   | 30                  | ~       | / F       | ACU                | Column Totals: 100 (A) 300 (B)   |
| 2. Phalaris arundinacea  | 30                  |         | F         | ACW                | Prevalence Index = B/A = 3.00  |
| 3. Eutrochium purpureum  | 20                  |         | F         | AC                 | Hydrophytic Vegetation Indicators:   |
| 4. Asclepias syriaca   | 10                  |         | <u>F</u>  | ACU                | 1 - Rapid Test for Hydrophytic Vegetation  |
| 5. Urtica dioica   | 10                  |         | <u>F</u>  | ACW                | ✓ 2 - Dominance Test is >50%   |
| 6  |                     |         |           |                    | 3 - Prevalence Index is ≤3.0 <sup>1</sup>  |
| 7  |                     |         |           |                    | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) |
| 8  |                     |         |           |                    | Problematic Hydrophytic Vegetation¹ (Explain)  |
| 9  |                     |         |           |                    | robernatio riyarophytic vegetation (Explain)   |
| 10   |                     |         |           |                    | <sup>1</sup> Indicators of hydric soil and wetland hydrology must                                      |
| Woody Vine Stratum (Plot size: 30 ft r )                         | 100%                | = Tota  | al Cover  |                    | be present, unless disturbed or problematic.   |
| 1  |                     |         |           |                    | Hydrophytic  |
| 2  |                     |         |           |                    | Vegetation   |
|  |                     |         | al Cover  |                    | Present? Yes No No   |
| Remarks: (Include photo numbers here or on a separate            | sheet.)             |         |           |                    |  |
| Hydrophytic vegetation present.                                  |                     |         |           |                    |  |
|  |                     |         |           |                    |  |

Soll Sampling Point: 1-SP-004

| Profile Desc | ription: (Describe                          | to the dept    | h needed to docur       | nent the               | indicator           | or confire        | n the absence of                      | indicators.)   |
|--------------|---|----------------|-------------------------|------------------------|---------------------|-------------------|---------------------------------------|--|
| Depth        | Matrix                                      |                |                         | x Feature              |                     |                   |                                       | •  |
| (inches)     | Color (moist)                               | %              | Color (moist)           | %                      | Type <sup>1</sup> _ | _Loc <sup>2</sup> | Texture                               | Remarks  |
| 0 - 20       | 10YR 6/3                                    | 90             | 10YR 5/1                | 10                     | <u>D</u>            | <u>M</u>          | Silty Clay Loam                       |  |
| -            |   |                |                         |                        |                     |                   |                                       |  |
|              |   |                |                         |                        |                     |                   |                                       |  |
|              |   |                |                         |                        |                     |                   |                                       |  |
|              |   |                |                         |                        |                     |                   |                                       |  |
| <u> </u>     |   |                |                         |                        |                     |                   |                                       |  |
| <u> </u>     |   |                |                         |                        |                     |                   |                                       |  |
|              |   |                |                         |                        |                     |                   |                                       |  |
|              | oncentration, D=Dep                         | oletion, RM=   | Reduced Matrix, MS      | S=Maske                | d Sand Gr           | ains.             |                                       | PL=Pore Lining, M=Matrix.                            |
| Hydric Soil  |   |                |                         |                        |                     |                   |                                       | r Problematic Hydric Soils <sup>3</sup> :            |
| Histosol     |   |                |                         | -                      | atrix (S4)          |                   | _                                     | airie Redox (A16)                                    |
| I —          | oipedon (A2)<br>istic (A3)                  |                |                         | Redox (S<br>d Matrix ( |                     |                   | Dark Surf                             | ganese Masses (F12)                                  |
| ı —          | en Sulfide (A4)                             |                |                         |                        | ineral (F1)         |                   |                                       | llow Dark Surface (TF12)                             |
|              | d Layers (A5)                               |                |                         |                        | latrix (F2)         |                   |                                       | plain in Remarks)                                    |
| 2 cm Mu      | ıck (A10)                                   |                | Deplete                 | d Matrix               | (F3)                |                   |                                       |  |
| ı — ·        | d Below Dark Surfac                         | e (A11)        | _                       | Dark Surf              | , ,                 |                   | 2                                     |  |
| _            | ark Surface (A12)                           |                |                         |                        | urface (F7          | )                 |                                       | hydrophytic vegetation and                           |
| 1 — 1        | /lucky Mineral (S1)<br>ucky Peat or Peat (S | 3)             | Redox I                 | Depression             | ons (F8)            |                   |                                       | ydrology must be present,<br>sturbed or problematic. |
|              | Layer (if observed)                         |                |                         |                        |                     |                   | unicss di                             | starbed or problematic.                              |
|              | ,   |                |                         |                        |                     |                   |                                       | ,  |
| 1            | ches):                                      |                |                         |                        |                     |                   | Hydric Soil Pr                        | resent? Yes No                                       |
| Remarks:     |   |                |                         |                        |                     |                   |                                       |  |
| Llvalnia     | المحمومات المح                              |                |                         |                        |                     |                   |                                       |  |
| Hydric       | soil absent.                                |                |                         |                        |                     |                   |                                       |  |
|              |   |                |                         |                        |                     |                   |                                       |  |
|              |   |                |                         |                        |                     |                   |                                       |  |
| HYDROLO      | GY  |                |                         |                        |                     |                   |                                       |  |
| Wetland Hy   | drology Indicators                          |                |                         |                        |                     |                   |                                       |  |
| Primary Indi | cators (minimum of                          | one is require | ed; check all that ap   | ply)                   |                     |                   | Secondary                             | Indicators (minimum of two required)                 |
| Surface      | Water (A1)                                  |                | Water-Sta               | ined Leav              | /es (B9)            |                   | Surface                               | e Soil Cracks (B6)                                   |
| High Wa      | ater Table (A2)                             |                | Aquatic Fa              | auna (B13              | 3)                  |                   | Draina                                | ge Patterns (B10)                                    |
| Saturati     | on (A3)                                     |                | True Aqua               | itic Plants            | (B14)               |                   | Dry-Se                                | eason Water Table (C2)                               |
| ı —          | larks (B1)                                  |                | Hydrogen                |                        |                     |                   |                                       | sh Burrows (C8)                                      |
|              | nt Deposits (B2)                            |                | Oxidized F              |                        |                     | -                 | —                                     | tion Visible on Aerial Imagery (C9)                  |
|              | posits (B3)                                 |                | Presence                |                        | •                   | •                 | _                                     | d or Stressed Plants (D1)                            |
|              | at or Crust (B4)<br>posits (B5)             |                | Recent Iro<br>Thin Muck |                        |                     | a Solis (C        | · —                                   | orphic Position (D2)<br>leutral Test (D5)            |
|              | on Visible on Aerial                        | Imagery (B7    |                         |                        | , ,                 |                   | 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | ledital Test (D3)                                    |
| I —          | Vegetated Concav                            |                |                         |                        |                     |                   |                                       |  |
| Field Obser  |   |                |                         |                        |                     |                   |                                       |  |
| Surface Wat  | er Present?                                 | es N           | lo Depth (in            | ches):                 |                     |                   |                                       |  |
| Water Table  |   |                | lo Pepth (inc           |                        |                     |                   |                                       |  |
| Saturation P |   |                | lo Depth (in            |                        |                     |                   | land Hydrology P                      | Present? Yes No                                      |
| (includes ca | oillary fringe)                             |                |                         |                        |                     |                   |                                       |  |
| Describe Re  | corded Data (strean                         | i gauge, mo    | nitoring well, aerial į | pnotos, p              | revious ins         | spections),       | , іт available:                       |  |
| Remarks:     |   |                |                         |                        |                     |                   |                                       |  |
|              |   |                |                         |                        |                     |                   |                                       |  |
| ∣Wetland     | l hydrology                                 | absent.        |                         |                        |                     |                   |                                       |  |
|              |   |                |                         |                        |                     |                   |                                       |  |
| I            |   |                |                         |                        |                     |                   |                                       |  |

| Project/Site: AEP Fostoria to Lima                              | (                | City/Co | ounty:       | Findlay/    | Hancock Sampling Date: 2022-06-30  |
|---|------------------|---------|--------------|-------------|--|
| Applicant/Owner: AEP  |                  |         |              |             | State: Ohio Sampling Point: 1-SP-005   |
| Investigator(s): Beth Hollinden, Chris Davisson                 |                  | Section | n, Tov       | vnship, Rar | nge: OH01 T2N R11E SN27  |
|   |                  |         |              | ,           | (concave, convex, none): None  |
| Slope (%): 0 Lat: 41.106101                                     | 1                | Long:   | -83.         | 578203      | Datum: WGS 84  |
| Soil Map Unit Name: PmA   |                  |         |              |             | NWI classification: N/A  |
| Are climatic / hydrologic conditions on the site typical for th | is time of yea   | ar? Ye  | es           | No _        | (If no, explain in Remarks.)   |
| Are Vegetation, Soil, or Hydrology                              | significantly of | disturb | ed?          | Are "i      | Normal Circumstances" present? Yes No  |
| Are Vegetation, Soil, or Hydrology                              | naturally prol   | blemat  | tic?         | (If ne      | eded, explain any answers in Remarks.)   |
| SUMMARY OF FINDINGS - Attach site map                           | showing          | sam     | pling        | j point k   | ocations, transects, important features, etc.  |
| Hydrophytic Vegetation Present? Yes 1                           | No               |         |              |             |  |
| Hydric Soil Present? Yes !                                      |                  |         | ls the       | Sampled     |  |
| Wetland Hydrology Present? Yes I                                | No               |         | withi        | n a Wetlan  | nd? Yes No   |
| Remarks:  |                  |         |              |             |  |
| Not a wetland. Riparian corridor of                             | stream           | •       |              |             |  |
| VEGETATION – Use scientific names of plants                     | <u> </u>         |         |              |             |  |
|   | Absolute         | Domi    | inant        | Indicator   | Dominance Test worksheet:  |
| Tree Stratum (Plot size: 30 ft r ) 1.                           | % Cover          |         |              |             | Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)   |
| 2   |                  |         |              |             |  |
| 3   |                  |         |              |             | Total Number of Dominant Species Across All Strata: 3 (B)  |
| 4   |                  |         |              |             | Percent of Dominant Species  |
| 5   |                  |         |              |             | That Are OBL, FACW, or FAC: 0 (A/B)  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                     |                  | = Tota  | I Cov        | ər          | Prevalence Index worksheet:  |
| 1   |                  |         |              |             | Total % Cover of: Multiply by:   |
| 2.  |                  |         |              |             | OBL species 0 x 1 = 0  |
| 3.  |                  |         |              |             | FACW species <u>0</u> x 2 = <u>0</u>   |
| 4   |                  |         |              |             | FAC species 10 x 3 = 30  |
| 5   |                  |         |              |             | FACU species 80 x 4 = 320  |
| Luci ou de la Color San     |                  | = Tota  | I Cov        | er          | UPL species 0 x 5 = 0  |
| Herb Stratum (Plot size: 5 ft r )  1. Bromus inermis            | 30               | ,       | ,            | FACU        | Column Totals: <u>90</u> (A) <u>350</u> (B)  |
| 2 Cirsium arvense   | 30               |         | <del>,</del> | FACU        | Prevalence Index = B/A = 3.89  |
| 3. Cornus florida   | 20               |         |              | FACU        | Hydrophytic Vegetation Indicators:   |
| 4. Rubus occidentalis   | 10               |         |              |             | 1 - Rapid Test for Hydrophytic Vegetation  |
| 5. Sambucus nigra   | _ 10             |         |              | FAC         | 2 - Dominance Test is >50%   |
| 6   |                  |         |              |             | 3 - Prevalence Index is ≤3.0 <sup>1</sup>  |
| 7   |                  |         |              |             | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) |
| 8   |                  |         |              |             | Problematic Hydrophytic Vegetation (Explain)   |
| 9   |                  |         |              |             |  |
| 10  |                  | _       |              |             | <sup>1</sup> Indicators of hydric soil and wetland hydrology must                                      |
| Woody Vine Stratum (Plot size: 30 ft r                          | 100%             | = Tota  | I Cov        | ər          | be present, unless disturbed or problematic.   |
| 1   |                  |         |              |             | Hydrophytic  |
| 2   |                  |         |              |             | Vegetation Present? Yes No   |
| Demonto: (Include phote purchase have as a second               |                  | = Tota  | I Cov        | er          | 110  |
| Remarks: (Include photo numbers here or on a separate           | sneet.)          |         |              |             |  |
| Hydrophytic vegetation absent.                                  |                  |         |              |             |  |
|   |                  |         |              |             |  |

Soll Sampling Point: 1-SP-005

| Profile Desc           | ription: (Describe                       | to the depth   | needed to docur         | nent the                | indicator               | or confirm        | n the absence of         | indicators.)                            |
|------------------------|--|----------------|-------------------------|-------------------------|-------------------------|-------------------|--------------------------|---|
| Depth                  | Matrix                                   |                | Redo                    | x Feature               | s                       |                   |                          |   |
| (inches)               | Color (moist)                            | %              | Color (moist)           | %                       | _Type <sup>1</sup>      | _Loc <sup>2</sup> | Texture                  | Remarks                                 |
| 0 - 20                 | 10YR 5/3                                 | 97             | 10YR 6/3                | 3                       | <u>C</u>                | <u>M</u>          | Silty Clay Loam          |   |
| -                      |  |                |                         |                         |                         |                   |                          |   |
|                        |  |                |                         |                         |                         |                   |                          |   |
|                        |  |                |                         |                         |                         |                   |                          |   |
| l — -                  |  |                |                         |                         |                         |                   |                          |   |
|                        |  |                |                         |                         |                         |                   |                          |   |
| l                      |  |                |                         |                         |                         |                   |                          |   |
| _                      |  |                |                         |                         |                         |                   |                          |   |
| <sup>1</sup> Type: C=C | oncentration, D=Dep                      | oletion RM=F   | Reduced Matrix MS       | S=Maske                 | d Sand Gr               | ains              | <sup>2</sup> Location: P | L=Pore Lining, M=Matrix.                |
| Hydric Soil            |  |                | ,                       |                         |                         |                   |                          | Problematic Hydric Soils <sup>3</sup> : |
| Histosol               | (A1)                                     |                | Sandy (                 | Sleyed Ma               | atrix (S4)              |                   | Coast Pra                | irie Redox (A16)                        |
| Histic E               | oipedon (A2)                             |                |                         | Redox (S                |                         |                   | Dark Surfa               | ace (S7)                                |
| Black Hi               | istic (A3)                               |                | Stripped                | l Matrix (              | 36)                     |                   | Iron-Mang                | anese Masses (F12)                      |
|                        | en Sulfide (A4)                          |                |                         |                         | neral (F1)              |                   |                          | low Dark Surface (TF12)                 |
| I —                    | d Layers (A5)                            |                |                         | -                       | atrix (F2)              |                   | Other (Ex                | plain in Remarks)                       |
| ı —                    | ıck (A10)                                | - (011)        |                         | d Matrix (              | -                       |                   |                          |   |
|                        | d Below Dark Surfac<br>ark Surface (A12) | e (ATT)        | _                       | Dark Surfa<br>d Dark Si | ace (F6)<br>urface (F7) | )                 | 3Indicators of           | hydrophytic vegetation and              |
| _                      | Mucky Mineral (S1)                       |                |                         | Depressio               | ,                       | ,                 |                          | /drology must be present,               |
| ı —                    | icky Peat or Peat (S                     | 3)             |                         |                         | ()                      |                   | •                        | turbed or problematic.                  |
|                        | Layer (if observed)                      |                |                         |                         |                         |                   |                          |   |
| Type:                  |  |                |                         |                         |                         |                   |                          |   |
| Depth (in              | ches):                                   |                |                         |                         |                         |                   | Hydric Soil Pre          | esent? Yes No                           |
| Remarks:               |  |                | <del></del>             |                         |                         |                   |                          |   |
| Lludria                | coil abcont                              |                |                         |                         |                         |                   |                          |   |
| Hydric :               | soil absent.                             |                |                         |                         |                         |                   |                          |   |
|                        |  |                |                         |                         |                         |                   |                          |   |
|                        |  |                |                         |                         |                         |                   |                          |   |
| HYDROLO                | GY                                       |                |                         |                         |                         |                   |                          |   |
| Wetland Hy             | drology Indicators                       | :              |                         |                         |                         |                   |                          |   |
| Primary India          | cators (minimum of                       | one is require | ed; check all that ap   | ply)                    |                         |                   | Secondary I              | Indicators (minimum of two required)    |
| Surface                | Water (A1)                               |                | Water-Sta               | ned Leav                | es (B9)                 |                   | Surface                  | e Soil Cracks (B6)                      |
| High Wa                | ater Table (A2)                          |                | Aquatic Fa              | una (B13                | 5)                      |                   | Drainag                  | ge Patterns (B10)                       |
| Saturation             | on (A3)                                  |                | True Aqua               |                         |                         |                   |                          | ason Water Table (C2)                   |
| Water M                | larks (B1)                               |                | Hydrogen                | Sulfide O               | dor (C1)                |                   | Crayfisl                 | h Burrows (C8)                          |
| Sedimer                | nt Deposits (B2)                         |                | Oxidized F              | Rhizosphe               | eres on Liv             | ing Roots         | (C3) Saturat             | ion Visible on Aerial Imagery (C9)      |
| Drift De               | oosits (B3)                              |                | Presence                | of Reduce               | ed Iron (C              | 4)                | Stunted                  | or Stressed Plants (D1)                 |
| Algal Ma               | at or Crust (B4)                         |                | Recent Iro              | n Reduct                | ion in Tille            | d Soils (C        | 6) Geomo                 | rphic Position (D2)                     |
| Iron Dep               | oosits (B5)                              |                | Thin Muck               | Surface                 | (C7)                    |                   | FAC-Ne                   | eutral Test (D5)                        |
| Inundati               | on Visible on Aerial                     | Imagery (B7)   | Gauge or                | Well Data               | (D9)                    |                   |                          |   |
| Sparsely               | y Vegetated Concav                       | e Surface (B   | 8) Other (Exp           | lain in Re              | emarks)                 |                   |                          |   |
| Field Obser            |  |                |                         |                         |                         |                   |                          |   |
| Surface Wat            | er Present?                              | 'es N          | o Depth (in             | ches):                  |                         | _                 |                          |   |
| Water Table            | Present?                                 | 'es N          | o Depth (in             | ches):                  |                         | _                 |                          |   |
| Saturation P           | resent?                                  | 'es N          | o Depth (in             | ches):                  |                         | Wet               | and Hydrology P          | resent? Yes No                          |
| (includes cap          |  |                | 14                      | -11                     |                         |                   | 14                       |   |
| Describe Re            | corded Data (strean                      | n gauge, mor   | iltoring well, aerial į | onotos, pi              | evious ins              | spections),       | if available:            |   |
| Remarks:               |  |                |                         |                         |                         |                   |                          |   |
|                        | ا ما ا                                   | - la - c - c + |                         |                         |                         |                   |                          |   |
| wetiand                | l hydrology                              | absent.        |                         |                         |                         |                   |                          |   |
|                        |  |                |                         |                         |                         |                   |                          |   |
|                        |  |                |                         |                         |                         |                   |                          |   |

| Project/Site: AEP Fostoria to Lima                                | (               | City/County:                   | Findlay/    | Hancock  | Sampling Date: 2022-07-02                             |  |  |
|---|-----------------|--------------------------------|-------------|--|---|--|--|
| Applicant/Owner: AEP  |                 |                                |             | State: Ohio Sampling Point: 1-SP-008           |   |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   | ;               | Section, To                    | wnship, Rar | nge: OH01 T1S R9E S                            | N1  |  |  |
|   |                 |                                |             | (concave, convex, none):                       | None  |  |  |
| Slope (%): 0 Lat: 40.985614                                       |                 | Long: -83.774341 Datum: WGS 84 |             |  |   |  |  |
| Soil Map Unit Name: MCA   |                 |                                |             | NWI classification                             | ation: R2UBH  |  |  |
| Are climatic / hydrologic conditions on the site typical for this | is time of yea  | ar? Yes                        | No _        | (If no, explain in Re                          | emarks.)  |  |  |
| Are Vegetation, Soil, or Hydrology :                              | significantly   | disturbed?                     | Are "       | Normal Circumstances" p                        | resent? Yes No  |  |  |
| Are Vegetation, Soil, or Hydrology                                | naturally pro   | blematic?                      | (If ne      | eded, explain any answer                       | rs in Remarks.)                                       |  |  |
| SUMMARY OF FINDINGS - Attach site map                             | showing         | sampling                       | g point lo  | ocations, transects                            | , important features, etc.                            |  |  |
| Hydrophytic Vegetation Present? Yes N                             | 10              |                                |             |  |   |  |  |
| Hydric Soil Present? Yes N  |                 |                                | e Sampled   |  |   |  |  |
| Wetland Hydrology Present? Yes N                                  | 10              | with                           | in a Wetlan | ıd? Yes  | No  |  |  |
| Remarks:  |                 |                                |             |  |   |  |  |
| Not a wetland. Mown yard borderir                                 | ng ripar        | ian cor                        | ridor of    | f stream.                                      |   |  |  |
| VEGETATION – Use scientific names of plants                       |                 |                                |             |  |   |  |  |
|   | Absolute        | Dominant                       | Indicator   | Dominance Test works                           | sheet:  |  |  |
| Tree Stratum (Plot size: 30 ft r ) 1.                             |                 | Species?                       |             | Number of Dominant Sp<br>That Are OBL, FACW, o |   |  |  |
| 2   |                 |                                |             | Total Number of Domina                         | ant   |  |  |
| 3   |                 |                                |             | Species Across All Strat                       | ta: <u>2</u> (B)                                      |  |  |
| 4   |                 |                                |             | Percent of Dominant Sp                         |   |  |  |
| 5   |                 | = Total Cov                    | er          | That Are OBL, FACW, o                          | or FAC: <u>50</u> (A/B)                               |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                 | 70101 001                      | 0.          | Prevalence Index work                          | ksheet:   |  |  |
| 1   |                 |                                |             | Total % Cover of:                              |   |  |  |
| 2   |                 |                                |             |  | $x_1 = \frac{0}{20}$                                  |  |  |
| 3   |                 |                                |             |  | x = 20<br>x = 30                                      |  |  |
| 4<br>5  |                 |                                |             |  | x 4 = 360   |  |  |
| 0   |                 | = Total Cov                    | er          | UPL species 0                                  |   |  |  |
| Herb Stratum (Plot size: 5 ft r )                                 |                 |                                |             | Column Totals: 110                             | (A) 410 (B)   |  |  |
| 1. Festuca rubra  | - <del>75</del> |                                | FACU        |  | 272   |  |  |
| 2. Cirsium arvense  | - <del>15</del> |                                | FACU<br>FAC | Prevalence Index                               |   |  |  |
| 3. Toxicodendron radicans   |                 |                                | FAC         | Hydrophytic Vegetatio  1 - Rapid Test for H    |   |  |  |
| 4   |                 |                                |             | 2 - Dominance Test                             |   |  |  |
| 5   |                 |                                |             | 3 - Prevalence Inde                            |   |  |  |
| 6   |                 |                                |             |  | Adaptations <sup>1</sup> (Provide supporting          |  |  |
| 8.  |                 |                                |             |  | s or on a separate sheet)                             |  |  |
| 9   |                 |                                |             | Problematic Hydrop                             | ohytic Vegetation <sup>1</sup> (Explain)              |  |  |
| 10  |                 |                                |             | 1 maissans of budgis sail                      | l andatland budsalamussust                            |  |  |
| W 1 15 01 1 101 1 30 ft r   | 100%            | = Total Cov                    | er          | be present, unless distu                       | l and wetland hydrology must<br>irbed or problematic. |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 10              | ~                              | FACW        |  |   |  |  |
| 2.  |                 |                                |             | Hydrophytic Vegetation                         |   |  |  |
|   | 10%             | = Total Cov                    | /er         | Present? Yes                                   | s No  |  |  |
| Remarks: (Include photo numbers here or on a separate             |                 |                                |             | 1  |   |  |  |
| Hydrophytic vegetation absent.                                    |                 |                                |             |  |   |  |  |
|   |                 |                                |             |  |   |  |  |

SOIL Sampling Point: 1-SP-008

| Profile Desc | ription: (Describe               | to the depth    | needed to docu       | ment the i                | ndicator          | or confirm       | n the absence of ir | ndicators.)  |
|--------------|----------------------------------|-----------------|----------------------|---------------------------|-------------------|------------------|---------------------|--|
| Depth        | Matrix                           |                 |                      | ox Feature                |                   |                  | _                   |  |
| (inches)     | Color (moist)                    |                 | Color (moist)        | %                         | Type <sup>1</sup> | Loc <sup>2</sup> | Texture             | Remarks  |
| 0 - 20       | 10YR 4/3                         | _ <u>100</u>    |                      |                           |                   |                  | Silty Clay Loam     |  |
|              |                                  |                 |                      |                           |                   |                  |                     |  |
| -            |                                  |                 |                      |                           |                   |                  |                     |  |
|              |                                  |                 |                      |                           |                   |                  |                     |  |
|              |                                  |                 |                      |                           |                   |                  |                     |  |
|              |                                  | - — —           |                      |                           |                   |                  |                     |  |
| <u> </u>     |                                  | - — —           |                      |                           |                   |                  |                     |  |
|              |                                  |                 |                      |                           |                   |                  |                     |  |
|              | oncentration, D=Dep              | oletion, RM=Re  | educed Matrix, M     | IS=Masked                 | Sand Gra          | ains.            |                     | =Pore Lining, M=Matrix.                                |
| Hydric Soil  |                                  |                 |                      |                           |                   |                  |                     | Problematic Hydric Soils <sup>3</sup> :                |
| Histosol     |                                  |                 |                      | Gleyed Ma                 |                   |                  | _                   | ie Redox (A16)   |
|              | oipedon (A2)                     |                 |                      | Redox (S5                 |                   |                  | Dark Surface        |  |
| ı —          | istic (A3)                       |                 |                      | ed Matrix (S<br>Mucky Mir | ,                 |                  |                     | anese Masses (F12)                                     |
|              | en Sulfide (A4)<br>d Layers (A5) |                 |                      | Gleyed Ma                 | , ,               |                  |                     | ow Dark Surface (TF12)<br>lain in Remarks)             |
| l            | uck (A10)                        |                 |                      | ed Matrix (               |                   |                  | Office (Exp         | all III Kellarks)                                      |
| _            | d Below Dark Surfac              | e (A11)         |                      | Dark Surfa                |                   |                  |                     |  |
| Thick Da     | ark Surface (A12)                | , ,             | Deplet               | ed Dark Su                | ırface (F7)       |                  | 3Indicators of h    | ydrophytic vegetation and                              |
| Sandy N      | lucky Mineral (S1)               |                 | Redox                | Depressio                 | ns (F8)           |                  | wetland hyd         | drology must be present,                               |
|              | icky Peat or Peat (S             |                 |                      |                           |                   |                  | unless dist         | urbed or problematic.                                  |
| Restrictive  | Layer (if observed)              | :               |                      |                           |                   |                  |                     |  |
|              |                                  |                 | _                    |                           |                   |                  | Hydric Soil Pres    | sent? Yes No   |
| Depth (in    | ches):                           |                 | _                    |                           |                   |                  | Tiyano oon Tree     | 103 <u>103 10 10 10 10 10 10 10 10 10 10 10 10 10 </u> |
| Remarks:     |                                  |                 |                      |                           |                   |                  |                     |  |
| Hydric       | soil absent.                     |                 |                      |                           |                   |                  |                     |  |
|              | on aboon.                        |                 |                      |                           |                   |                  |                     |  |
|              |                                  |                 |                      |                           |                   |                  |                     |  |
| HYDROLO      | CV                               |                 |                      |                           |                   |                  |                     |  |
| HYDROLO      |                                  |                 |                      |                           |                   |                  |                     |  |
| 1            | drology Indicators:              |                 | . ah a ak all that a | l. d                      |                   |                  | Casandanila         | disease (minimum of two required)                      |
|              | cators (minimum of o             | one is required |                      |                           | (DO)              |                  |                     | dicators (minimum of two required)                     |
|              | Water (A1)                       |                 |                      | ained Leav                | , ,               |                  |                     | Soil Cracks (B6)                                       |
| - "          | ater Table (A2)                  |                 |                      | auna (B13                 | •                 |                  | _ •                 | e Patterns (B10)                                       |
| Saturation   | ,                                |                 |                      | atic Plants               | ` '               |                  | _ ′                 | son Water Table (C2)                                   |
| —            | larks (B1)                       |                 |                      | Sulfide O                 |                   | ina Booto        |                     | Burrows (C8)   |
| —            | nt Deposits (B2)                 |                 |                      | Rhizosphe of Reduce       |                   | -                |                     | on Visible on Aerial Imagery (C9)                      |
| I — ·        | oosits (B3)                      |                 | _                    |                           | ,                 | ,                |                     | or Stressed Plants (D1)                                |
|              | at or Crust (B4)<br>posits (B5)  |                 | Recent Ir            |                           |                   | u Solis (Ci      | . —                 | phic Position (D2)<br>utral Test (D5)                  |
| '            | on Visible on Aerial             | Imagany (P7)    | Thin Muc<br>Gauge or |                           |                   |                  | FAC-Net             | dital rest (D3)  |
| ı —          | y Vegetated Concav               |                 |                      |                           | . ,               |                  |                     |  |
| Field Obser  |                                  | e darrace (Bo)  | Other (E)            | panini                    | iliai kaj         |                  |                     |  |
| Surface Wat  |                                  | es No           | Depth (ii            | nches).                   |                   |                  |                     |  |
| Water Table  |                                  |                 | Depth (ii            |                           |                   |                  |                     |  |
| Saturation P |                                  |                 | Depth (ii            |                           |                   |                  | and Hydrology Pro   | esent? Yes No  |
|              | oillary fringe)                  | es 140          | Deptii (ii           | iciies)                   |                   | _   ••••         | and rigurology Fre  | ssent: Tes NO  |
| Describe Re  | corded Data (stream              | n gauge, monite | oring well, aerial   | photos, pr                | evious ins        | pections),       | if available:       |  |
| Domestra     |                                  |                 |                      |                           |                   |                  |                     |  |
| Remarks:     |                                  |                 |                      |                           |                   |                  |                     |  |
| Wetland      | l hydrology a                    | absent.         |                      |                           |                   |                  |                     |  |
|              |                                  |                 |                      |                           |                   |                  |                     |  |
|              |                                  |                 |                      |                           |                   |                  |                     |  |

| Project/Site: AEP Fostoria to Lima                           |                 | City/County                         | Sampling Date: 2022-07-02                  |  |  |  |  |  |
|--|-----------------|-------------------------------------|--|--|--|--|--|--|
| Applicant/Owner: AEP   |                 | State: Ohio Sampling Point: 1-SP-00 |  |  |  |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson              |                 | Section, To                         | Section, Township, Range: OH01 T1S R9E SN1 |  |  |  |  |  |
|  |                 |                                     |  | (concave, convex, none):                       | _  |  |  |  |
| Slope (%): 2 Lat: 40.984367                                  |                 | Long:83                             | .775359                                    |  | Datum: WGS 84  |  |  |  |
| Soil Map Unit Name: McA                                      |                 |                                     |  | NWI classific                                  | ation: N/A   |  |  |  |
| Are climatic / hydrologic conditions on the site typical for | his time of ye  | ar? Yes                             | No_  | (If no, explain in Re                          | emarks.)   |  |  |  |
| Are Vegetation, Soil, or Hydrology                           | _ significantly | disturbed?                          | Are '                                      | "Normal Circumstances" p                       | resent? Yes No   |  |  |  |
| Are Vegetation, Soil, or Hydrology                           |                 |                                     |  | eeded, explain any answei                      |  |  |  |  |
| SUMMARY OF FINDINGS - Attach site ma                         | p showing       | samplin                             | g point l                                  | ocations, transects                            | , important features, etc.   |  |  |  |
| Hydrophytic Vegetation Present? Yes                          | No              |                                     |  |  |  |  |  |  |
| Hydric Soil Present? Yes                                     | No              | l l                                 | e Sampled                                  |  |  |  |  |  |
| Wetland Hydrology Present? Yes                               | No              | with                                | in a Wetlar                                | nd? Yes  | No   |  |  |  |
| Remarks:   |                 |                                     |  |  |  |  |  |  |
| Not a wetland. Riparian corridor o                           | f stream        |                                     |  |  |  |  |  |  |
| VEGETATION – Use scientific names of plant                   | ts.             |                                     |  |  |  |  |  |  |
| 7 0 4 (D) 1 30 ft r  | Absolute        |                                     |  | Dominance Test works                           | sheet:   |  |  |  |
| Tree Stratum (Plot size: 30 ft r ) 1                         |                 | Species?                            | Status                                     | Number of Dominant Sp<br>That Are OBL, FACW, o |  |  |  |  |
| 2  |                 |                                     |  | Total Number of Domina                         | ant  |  |  |  |
| 3  |                 |                                     |  | Species Across All Stra                        | ta: <u>4</u> (B)   |  |  |  |
| 4  |                 |                                     |  | Percent of Dominant Sp                         |  |  |  |  |
| 5  |                 | = Total Cov                         |  | That Are OBL, FACW, o                          | or FAC: 100 (A/B)  |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                  |                 | _ Total Cov                         | · C1                                       | Prevalence Index work                          | ksheet:  |  |  |  |
| 1. Cornus amomum   | 15              |                                     | FACW                                       | Total % Cover of:                              |  |  |  |  |
| 2. Acer negundo  | 5               |                                     | FAC  |  | x 1 = 0  |  |  |  |
| 3  |                 |                                     |  | FACW species 105                               | x 2 = 210  |  |  |  |
| 4  |                 |                                     |  | FAC species 5                                  | x 3 = <u>15</u><br>x 4 = <u>80</u>                                     |  |  |  |
| 5  |                 |                                     |  | FACU species 20 UPL species 0                  | x 4 = 80<br>x 5 = 0  |  |  |  |
| Herb Stratum (Plot size: 5 ft r )                            | 20%             | = Total Cov                         | er   | Column Totals: 130                             | (A) 305 (B)  |  |  |  |
| 1. Phalaris arundinacea                                      | 80              |                                     | FACW                                       | Column Totals.                                 | (A) (B)  |  |  |  |
| 2. Ambrosia artemisiifolia                                   | 10              |                                     | FACU                                       | Prevalence Index                               |  |  |  |  |
| 3. Bromus inermis  | 10              |                                     | FACU_                                      | Hydrophytic Vegetatio                          |  |  |  |  |
| 4  |                 |                                     |  | 1 - Rapid Test for H                           |  |  |  |  |
| 5  |                 |                                     |  | 2 - Dominance Tes                              |  |  |  |  |
| 6  |                 |                                     |  | 3 - Prevalence Inde                            |  |  |  |  |
| 7  |                 |                                     |  | data in Remarks                                | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |  |  |  |
| 8  |                 |                                     |  | Problematic Hydron                             | ohytic Vegetation¹ (Explain)   |  |  |  |
| 9  |                 |                                     |  |  |  |  |  |  |
| 10   |                 | = Total Cov                         |  | <sup>1</sup> Indicators of hydric soil         | l and wetland hydrology must   |  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                     | 10010           | _ Total Cov                         |  | be present, unless distu                       | rbed or problematic.   |  |  |  |
| 1. Vitis riparia   | 10              |                                     | FACW                                       | Hydrophytic                                    |  |  |  |  |
| 2  |                 |                                     |  | Vegetation<br>Present? Yes                     | s No   |  |  |  |
|  | 10%             | = Total Cov                         | er   | . resent:                                      |  |  |  |  |
| Remarks: (Include photo numbers here or on a separat         | e sheet.)       |                                     |  |  |  |  |  |  |
| Hydrophytic vegetation present.                              |                 |                                     |  |  |  |  |  |  |
|  |                 |                                     |  |  |  |  |  |  |

Soll Sampling Point: 1-SP-009

| Profile Desc   | ription: (Describe                         | to the depth r   | needed to docu     | ment the i   | ndicator             | or confirm        | n the absence of i                                  | ndicators.)  |  |  |  |
|--|--|------------------|--------------------|--------------|----------------------|-------------------|---|--|--|--|--|
| Depth  | Matrix                                     |                  | Red                | ox Feature   | S                    |                   |   |  |  |  |  |
| (inches)   | Color (moist)                              | %                | Color (moist)      | %            | _Type <sup>1</sup> _ | _Loc <sup>2</sup> | Texture   | Remarks  |  |  |  |
| 0 - 20   | 10YR 4/3                                   | _ 100            |                    |              |                      |                   | Sandy Clay Loam                                     |  |  |  |  |
| -  |  |                  |                    |              |                      |                   |   |  |  |  |  |
|  |  |                  |                    |              |                      |                   |   |  |  |  |  |
|  |  |                  |                    |              |                      |                   |   | _  |  |  |  |
| l — -  |  |                  |                    |              |                      |                   |   |  |  |  |  |
|  |  |                  |                    |              |                      |                   |   |  |  |  |  |
|  |  |                  |                    |              |                      |                   |   |  |  |  |  |
|  |  |                  |                    |              |                      |                   |   |  |  |  |  |
| <sup>1</sup> Type: C=C   | oncentration, D=Dep                        | oletion RM=Re    | educed Matrix M    | S=Masked     | Sand Gra             | aine              | <sup>2</sup> Location: Pl                           | L=Pore Lining, M=Matrix.                           |  |  |  |
| Hydric Soil  |  | Dietion, Rivi–Re | duced Matrix, IV   | O-Wasket     | i Sand Gra           | all i5.           |   | Problematic Hydric Soils <sup>3</sup> :            |  |  |  |
| *  |  |                  | Sandy              | Gleved Ma    | trix (S4)            |                   |   | irie Redox (A16)                                   |  |  |  |
| Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) |  |                  |                    |              |                      |                   | Dark Surfa  |  |  |  |  |
| I —  | stic (A3)                                  |                  |                    | d Matrix (S  | -                    |                   |   | anese Masses (F12)                                 |  |  |  |
| Hydroge  | en Sulfide (A4)                            |                  | Loamy              | Mucky Mir    | neral (F1)           |                   | Very Shall  | ow Dark Surface (TF12)                             |  |  |  |
| Stratified   | d Layers (A5)                              |                  | Loamy              | Gleyed Ma    | atrix (F2)           |                   | Other (Exp  | olain in Remarks)                                  |  |  |  |
| _  | ıck (A10)                                  |                  |                    | ed Matrix (I |                      |                   |   |  |  |  |  |
| ı —  | d Below Dark Surfac                        | e (A11)          | _                  | Dark Surfa   |                      |                   | 3   |  |  |  |  |
| _  | ark Surface (A12)                          |                  |                    | ed Dark Su   |                      | )                 |   | hydrophytic vegetation and                         |  |  |  |
| ı —  | lucky Mineral (S1)<br>icky Peat or Peat (S | 3)               | Redox              | Depression   | ns (F8)              |                   | -   | drology must be present,<br>turbed or problematic. |  |  |  |
|  | Layer (if observed)                        | -                |                    |              |                      |                   | unless dis  | turbed of problematic.                             |  |  |  |
|  | Layer (ii observed)                        |                  |                    |              |                      |                   |   |  |  |  |  |
|  | ches):                                     |                  | -                  |              |                      |                   | Hydric Soil Pre                                     | esent? Yes No                                      |  |  |  |
| Remarks:   |  |                  |                    |              |                      |                   |   |  |  |  |  |
|  | المحمدات المح                              |                  |                    |              |                      |                   |   |  |  |  |  |
| Hyaric   | soil absent.                               |                  |                    |              |                      |                   |   |  |  |  |  |
|  |  |                  |                    |              |                      |                   |   |  |  |  |  |
|  |  |                  |                    |              |                      |                   |   |  |  |  |  |
| HYDROLO  | GY   |                  |                    |              |                      |                   |   |  |  |  |  |
|  | drology Indicators:                        | <u> </u>         |                    |              |                      |                   |   |  |  |  |  |
| 1  | cators (minimum of                         |                  | check all that a   | nnly)        |                      |                   | Secondary I   | ndicators (minimum of two required)                |  |  |  |
|  | Water (A1)                                 | one to required. |                    | ained Leav   | ee (BQ)              |                   |   | Soil Cracks (B6)                                   |  |  |  |
|  | ater Table (A2)                            |                  |                    | auna (B13    | , ,                  |                   |   | , ,  |  |  |  |
| Saturation   | ,  |                  |                    | atic Plants  | ,                    |                   | Drainage Patterns (B10) Dry-Season Water Table (C2) |  |  |  |  |
| ı —  | larks (B1)                                 |                  | Hydrogen           |              | ' '                  |                   | _ ,   | Burrows (C8)                                       |  |  |  |
|  | nt Deposits (B2)                           |                  |                    | Rhizosphe    |                      | ina Roots         |   | on Visible on Aerial Imagery (C9)                  |  |  |  |
| ı —  | posits (B3)                                |                  |                    | of Reduce    |                      | -                 |   | or Stressed Plants (D1)                            |  |  |  |
| ı —  | at or Crust (B4)                           |                  | Recent Ir          |              |                      | •                 |   | rphic Position (D2)                                |  |  |  |
| -  | posits (B5)                                |                  | Thin Muc           |              |                      |                   | · —   | eutral Test (D5)                                   |  |  |  |
| I —  | on Visible on Aerial                       | Imagery (B7)     | Gauge or           |              |                      |                   |   |  |  |  |  |
| ı —  | Vegetated Concav                           |                  |                    |              | . ,                  |                   |   |  |  |  |  |
| Field Obser  |  |                  |                    |              |                      |                   |   |  |  |  |  |
| Surface Wat  | er Present?                                | es No            | Depth (ir          | nches):      |                      |                   |   |  |  |  |  |
| Water Table  |  |                  | Depth (ir          |              |                      |                   |   |  |  |  |  |
| Saturation P   |  |                  | Depth (ir          |              |                      |                   | and Hydrology Pr                                    | resent? Yes No                                     |  |  |  |
| (includes car  |  | es 140           | Depti (ii          | ici ies)     |                      | _   ""            | and riyurology i'i                                  | esent: 165 NO                                      |  |  |  |
| Describe Re  | corded Data (stream                        | n gauge, monito  | oring well, aerial | photos, pr   | evious ins           | pections),        | if available:                                       |  |  |  |  |
|  |  |                  |                    |              |                      |                   |   |  |  |  |  |
| Remarks:   |  |                  |                    |              |                      |                   |   |  |  |  |  |
| Wetland  | l hydrology a                              | ahsent           |                    |              |                      |                   |   |  |  |  |  |
| ** Ctianic   | i iiyai ology i                            | abouit.          |                    |              |                      |                   |   |  |  |  |  |
|  |  |                  |                    |              |                      |                   |   |  |  |  |  |
|  |  |                  |                    |              |                      |                   |   |  |  |  |  |

| Project/Site: AEP Fostoria to Lima                               | (               | City/Co                             | ounty: | Findlay/    | Hancock  | Sampling Date: 2022-07-02                             |
|--|-----------------|-------------------------------------|--------|-------------|--|---|
| Applicant/Owner: AEP   |                 | State: Ohio Sampling Point: 1-SP-01 |        |             |  |   |
| Investigator(s): Beth Hollinden, Chris Davisson                  |                 | Section                             | n, Tov | vnship, Rar | nge: OH01 T1S R9E S                                | N12   |
|  |                 |                                     |        | ,           | (concave, convex, none):                           | Convex  |
| Slope (%): 2 Lat: 40.979155                                      | ι               | Long: _                             | -83.   | 78045       |  | Datum: WGS 84   |
| Soil Map Unit Name: McA  |                 |                                     |        |             | NWI classifica                                     | ation: N/A  |
| Are climatic / hydrologic conditions on the site typical for the | is time of yea  | ar? Ye                              | es     | No          | (If no, explain in Re                              | emarks.)  |
| Are Vegetation, Soil, or Hydrology                               | significantly o | disturb                             | ed?    | Are "I      | Normal Circumstances" p                            | resent? Yes No  |
| Are Vegetation, Soil, or Hydrology                               | naturally prol  | blemat                              | tic?   | (If ne      | eded, explain any answer                           | rs in Remarks.)                                       |
| SUMMARY OF FINDINGS - Attach site map                            | showing         | samı                                | pling  | j point k   | ocations, transects                                | , important features, etc.                            |
| Hydrophytic Vegetation Present? Yes N                            | No              |                                     |        |             |  |   |
| Hydric Soil Present? Yes N                                       | 10              |                                     |        | Sampled     |  |   |
| Wetland Hydrology Present? Yes N                                 | No              |                                     | withi  | n a Wetlan  | id? Yes  | No  |
| Remarks:   |                 |                                     |        |             |  |   |
| Not a wetland. Riparian corridor of                              | stream.         | •                                   |        |             |  |   |
| VEGETATION – Use scientific names of plants                      | i.              |                                     |        |             |  |   |
| 20.64  | Absolute        |                                     |        | Indicator   | Dominance Test works                               | sheet:  |
| Tree Stratum (Plot size: 30 ft r )  1                            | % Cover         |                                     |        |             | Number of Dominant Sp<br>That Are OBL, FACW, o     |   |
| 2  |                 |                                     |        |             | Total Number of Domina                             |   |
| 3  |                 |                                     |        |             | Species Across All Strat                           | ta: <u>2</u> (B)                                      |
| 4  |                 |                                     | _      |             | Percent of Dominant Sp                             |   |
| 5  | :               | = Tota                              | I Cove | er          | That Are OBL, FACW, o                              | or FAC: 100 (A/B)                                     |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                      |                 |                                     |        |             | Prevalence Index work                              |   |
| 1  |                 |                                     |        |             | Total % Cover of: OBL species 0                    |   |
| 2  |                 |                                     |        |             |  | $x = \frac{0}{200}$                                   |
| 3  |                 |                                     |        |             |  | x = 200<br>x = 3 = 0                                  |
| 4  |                 |                                     |        |             | · —  | $\begin{array}{c} x 3 = 0 \\ x 4 = 40 \end{array}$    |
| 5  |                 | = Tota                              | L Cov  |             | UPL species 0                                      |   |
| Herb Stratum (Plot size: 5 ft r )                                |                 | - 10ta                              |        |             | Column Totals: 110                                 | (A) 240 (B)   |
| 1. Phalaris arundinacea  | 90              |                                     |        | FACW        |  |   |
| 2. Bromus inermis  | - <del>5</del>  |                                     |        | FACU        | Prevalence Index                                   |   |
| 3. Dipsacus fullonum   | - —             |                                     |        | FACU_       | Hydrophytic Vegetatio                              |   |
| 4  |                 |                                     |        |             | 1 - Rapid Test for H 2 - Dominance Test            |   |
| 5  |                 |                                     |        |             | 3 - Prevalence Inde                                |   |
| 6  |                 |                                     |        |             |  | Adaptations <sup>1</sup> (Provide supporting          |
| 7<br>8   |                 |                                     |        |             | data in Remarks                                    | s or on a separate sheet)                             |
| 9.   |                 |                                     |        |             | Problematic Hydrop                                 | ohytic Vegetation¹ (Explain)                          |
| 10   |                 |                                     |        |             | 1  |   |
|  | 100%            | = Tota                              | l Cove | er          | Indicators of hydric soil be present, unless distu | l and wetland hydrology must<br>urbed or problematic. |
| Woody Vine Stratum (Plot size: 30 ft r )                         | 10              | ,                                   | ,      | FACW        |  |   |
| 1. Vitis riparia   | _ 10            |                                     | _      | -ACW        | Hydrophytic  |   |
| 2  | 10%             | = Tota                              | I Cov  | <br>er      | Vegetation<br>Present? Yes                         | s No  |
| Remarks: (Include photo numbers here or on a separate            |                 | · ota                               | 007    |             | l  |   |
| Hydrophytic vegetation present.                                  | -               |                                     |        |             |  |   |
|  |                 |                                     |        |             |  |   |
| I .  |                 |                                     |        |             |  |   |

| Profile Description: (Describe to the de   |   |  |  |                   | ii tile absence or ii   | raioatoro.)  |
|--|---|--|--|-------------------|---|--|
| Depth Matrix (inches) Color (moist) %  |   | ox Feature   |  | Loc <sup>2</sup>  | Texture   | Remarks  |
|  | Color (moist)   | %_   | Type <sup>1</sup>  |                   |   | Remarks  |
| 0 - 8 10YR 6/3 97  | 10YR 5/6  | _ 3  | <u> </u>   | <u> M</u>         | Silty Clay Loam   |  |
| <del>-</del>   |   |  |  |                   |   |  |
|  |   | _  |  |                   |   |  |
| -  |   |  |  |                   |   |  |
|  |   |  |  |                   |   |  |
|  |   |  |  |                   |   |  |
|  |   |  |  |                   |   |  |
|  |   |  |  |                   |   |  |
| <sup>1</sup> Type: C=Concentration, D=Depletion, R   | M=Reduced Matrix, M   | /IS=Maske  | d Sand G   | ains.             | <sup>2</sup> Location: PL   | =Pore Lining, M=Matrix.  |
| Hydric Soil Indicators:  |   |  |  |                   | Indicators for  | Problematic Hydric Soils <sup>3</sup> :  |
| Histosol (A1)  | Sandy   | Gleyed M   | atrix (S4)   |                   | Coast Prair   | rie Redox (A16)  |
| Histic Epipedon (A2) Sandy Redox (S5)  |   |  |  |                   | Dark Surfa  |  |
| Black Histic (A3)  |   | ed Matrix (  | ,  |                   |   | anese Masses (F12)   |
| Hydrogen Sulfide (A4)  |   | Mucky Mi   | , ,  |                   |   | ow Dark Surface (TF12)   |
| Stratified Layers (A5) 2 cm Muck (A10)   |   | Gleyed Med Med Matrix  |  |                   | Other (Exp  | lain in Remarks)   |
| Depleted Below Dark Surface (A11)  |   | Dark Surf  |  |                   |   |  |
| Thick Dark Surface (A12)   | _   |  |  | )                 | 3Indicators of h  | ydrophytic vegetation and  |
| Thick Dark Surface (A12) Depleted Dark Surface (F7)<br>Sandy Mucky Mineral (S1) Redox Depressions (F8)   |   |  |  |                   |   | drology must be present,   |
| 5 cm Mucky Peat or Peat (S3)   | _   |  | , ,  |                   | unless dist   | urbed or problematic.  |
| Restrictive Layer (if observed):   |   |  |  |                   |   |  |
| Type: Gravel   |   |  |  |                   |   |  |
| Depth (inches): 8  |   |  |  |                   | Hydric Soil Pres  | sent? Yes No   |
| Remarks:   |   |  |  |                   |   |  |
| Hydric soil absent.  |   |  |  |                   |   |  |
|  |   |  |  |                   |   |  |
| HYDROLOGY  |   |  |  |                   |   |  |
| HYDROLOGY  Wetland Hydrology Indicators:   |   |  |  |                   |   |  |
|  | uired; check all that a   | apply)   |  |                   | Secondary Ir  | ndicators (minimum of two required)  |
| Wetland Hydrology Indicators:  |   | apply)<br>ained Leav   | ves (B9)   |                   |   | ndicators (minimum of two required) Soil Cracks (B6)   |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is reg   | Water-St  |  | , ,  |                   | Surface   |  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is requestry)  Surface Water (A1)  | Water-St<br>Aquatic F   | ained Leav   | 3)   |                   | Surface<br>Drainage   | Soil Cracks (B6)   |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is reg Surface Water (A1) High Water Table (A2)  | Water-St<br>Aquatic F<br>True Aqu   | ained Leav   | B)<br>s (B14)  |                   | Surface<br>Drainage<br>Dry-Sea  | Soil Cracks (B6)<br>e Patterns (B10)   |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is reg  Surface Water (A1)  High Water Table (A2)  Saturation (A3)   | Water-St<br>Aquatic F<br>True Aqu<br>Hydroger   | ained Leav<br>auna (B13<br>atic Plants   | 3)<br>s (B14)<br>odor (C1)   | ving Roots        | Surface Drainage Dry-Sea Crayfish (C3) Saturation                           | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is requested in the second  | <pre> Water-St Aquatic F True Aqu Hydroger Oxidized</pre>   | ained Leav<br>Fauna (B13<br>natic Plants<br>n Sulfide C  | B)<br>s (B14)<br>odor (C1)<br>eres on Liv  | •                 | Surface Drainage Dry-Sea Crayfish (C3) Saturation                           | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8)  |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required as a surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  | <pre> Water-St Aquatic F True Aqu Hydroger Oxidized</pre>   | ained Leaver<br>Fauna (B13<br>Patic Plants<br>In Sulfide C<br>Rhizosphe<br>For Reduc   | B)<br>s (B14)<br>odor (C1)<br>eres on Liv<br>ed Iron (C  | 4)                | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is reg Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)  | Water-St Aquatic F True Aqu Hydroger Oxidized Presence  | ained Leaver (B13) attic Plants on Sulfide Control (B13) atticted to the subsection of Reduction | B) s (B14) odor (C1) eres on Lived Iron (C   | 4)                | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)                                    |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required as a surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc   | ained Leav<br>Fauna (B13<br>latic Plants<br>n Sulfide C<br>Rhizosphe<br>e of Reduct<br>on Reduct<br>k Surface<br>r Well Data   | B) B (B14) D dor (C1) Beres on Lived Iron (C Cion in Tille (C7) B (D9)   | 4)                | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is reg  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)   | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc   | ained Leav<br>Fauna (B13<br>latic Plants<br>n Sulfide C<br>Rhizosphe<br>e of Reduct<br>on Reduct<br>k Surface<br>r Well Data   | B) B (B14) D dor (C1) Beres on Lived Iron (C Cion in Tille (C7) B (D9)   | 4)                | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required as a surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Barrell of Sparsely Vegetated Concave Surface)  Field Observations:   | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge or (B8) Other (Ex                            | ained Leav<br>fauna (B13<br>atic Plants<br>n Sulfide C<br>Rhizosphe<br>e of Reduct<br>on Reduct<br>ck Surface<br>r Well Data<br>xplain in Re   | B) s (B14) odor (C1) eres on Liv ed Iron (C ction in Tille (C7) a (D9) emarks)   | 4)<br>ed Soils (C | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is regarded)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface)  Field Observations:  Surface Water Present?  Yes  | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge or (B8) Other (Ex                            | ained Leav<br>fauna (B13<br>attic Plants<br>in Sulfide C<br>Rhizosphe<br>e of Reduct<br>on Reduct<br>ck Surface<br>ir Well Data<br>xplain in R   | B) S (B14) Door (C1) Beres on Lived Iron (C Cion in Tille (C7) A (D9) Bemarks)   | 4) ed Soils (C    | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required as a surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Company of the Company of the Co | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge or (B8) Other (Ex                            | ained Leaving ained Leaving (B13) attic Plants in Sulfide Con Reduction Redu | B) B (B14) Door (C1) Beres on Lived Iron (C Cion in Tille (C7) B (D9) B (MR) B (B4) B  | 4) ed Soils (C    | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is regarded)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Company of the Company of the Compa | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge or (B8) Other (Ex) No Depth (in No Depth (in | ained Leaving ained Leaving (B13) attic Plants in Sulfide Con Reduction Redu | B) B (B14) Dor (C1) Beres on Lived Iron (C Cion in Tille (C7) B (D9) B (D9) B (B4) B ( | 4) ed Soils (C    | Surface  Drainage Dry-Sea Crayfish (C3) Saturatic Stunted Geomory ✓ FAC-Net | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2)                 |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required and service)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Company of the Company  | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge or (B8) Other (Ex) No Depth (in No Depth (in | ained Leaving ained Leaving (B13) attic Plants in Sulfide Con Reduction Redu | B) B (B14) Dor (C1) Beres on Lived Iron (C Cion in Tille (C7) B (D9) B (D9) B (B4) B ( | 4) ed Soils (C    | Surface  Drainage Dry-Sea Crayfish (C3) Saturatic Stunted Geomory ✓ FAC-Net | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Primary Indicators (minimum of one is reg  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)   | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge or (B8) Other (Ex) No Depth (in No Depth (in | ained Leaving ained Leaving (B13) attic Plants in Sulfide Con Reduction Redu | B) B (B14) Dor (C1) Beres on Lived Iron (C Cion in Tille (C7) B (D9) B (D9) B (B4) B ( | 4) ed Soils (C    | Surface  Drainage Dry-Sea Crayfish (C3) Saturatic Stunted Geomory ✓ FAC-Net | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is regarded)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Company of the Company of the Compa | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge or (B8) Other (Ex                            | ained Leaving ained Leaving (B13) attic Plants in Sulfide Con Reduction Redu | B) B (B14) Dor (C1) Beres on Lived Iron (C Cion in Tille (C7) B (D9) B (D9) B (B4) B ( | 4) ed Soils (C    | Surface  Drainage Dry-Sea Crayfish (C3) Saturatic Stunted Geomory ✓ FAC-Net | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |
| Wetland Hydrology Indicators:  Primary Indicators (minimum of one is regarded)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery of Sparsely Vegetated Concave Surface  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  Saturation Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, 1)  | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc (B7) Gauge or (B8) Other (Ex                            | ained Leaving ained Leaving (B13) attic Plants in Sulfide Con Reduction Redu | B) B (B14) Dor (C1) Beres on Lived Iron (C Cion in Tille (C7) B (D9) B (D9) B (B4) B ( | 4) ed Soils (C    | Surface  Drainage Dry-Sea Crayfish (C3) Saturatic Stunted Geomory ✓ FAC-Net | Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) utral Test (D5) |

| Project/Site: AEP Fostoria to Lima                              | (              | City/Co                             | ounty: | Findlay/    | /Hancock                                       | Sampling Date: 2022-07-03                       |
|---|----------------|-------------------------------------|--------|-------------|--|---|
| Applicant/Owner: AEP  |                | State: Ohio Sampling Point: 1-SP-01 |        |             |  |   |
| Investigator(s): Beth Hollinden, Chris Davisson                 | ;              | Section                             | n, Tov | vnship, Rar | <sub>nge:</sub> OH01 T1S R9E S                 | N15   |
|   |                |                                     |        |             | (concave, convex, none):                       | Convex  |
| Slope (%): 2 Lat: 40.954185                                     | ا              | Long: _                             | -83.   | 816883      |  | Datum: WGS 84                                   |
| Soil Map Unit Name: SpA   |                |                                     |        |             | NWI classifica                                 | ation: N/A                                      |
| Are climatic / hydrologic conditions on the site typical for th | is time of yea | ar? Ye                              | es     | No _        | (If no, explain in Re                          | emarks.)  |
| Are Vegetation, Soil, or Hydrology                              | significantly  | disturb                             | ed?    | Are "       | Normal Circumstances" p                        | oresent? Yes No                                 |
| Are Vegetation, Soil, or Hydrology                              | naturally pro  | blemat                              | tic?   | (If ne      | eded, explain any answer                       | rs in Remarks.)                                 |
| SUMMARY OF FINDINGS - Attach site map                           | showing        | sam                                 | pling  | g point k   | ocations, transects                            | , important features, etc.                      |
| Hydrophytic Vegetation Present? Yes 1                           | No             |                                     |        |             |  |   |
| Hydric Soil Present? Yes N                                      | No             |                                     |        | e Sampled   |  | 1/  |
| Wetland Hydrology Present? Yes                                  | No             |                                     | withi  | in a Wetlan | ıd? Yes  | No  |
| Remarks:  |                |                                     |        |             |  |   |
| Not a wetland. Riparian corridor of                             | stream         | •                                   |        |             |  |   |
| VEGETATION – Use scientific names of plants                     | 3.             |                                     |        |             |  |   |
|   | Absolute       | Domi                                | inant  | Indicator   | Dominance Test works                           | sheet:  |
| Tree Stratum (Plot size: 30 ft r ) 1.                           | % Cover        |                                     |        |             | Number of Dominant Sp<br>That Are OBL, FACW, o |   |
| 2   |                |                                     |        |             | Total Number of Domina                         | ant   |
| 3   |                |                                     |        |             | Species Across All Strat                       | ta: <u>3</u> (B)                                |
| 4   |                |                                     |        |             | Percent of Dominant Sp                         |   |
| 5   |                | <br>= Tota                          | L Cov  |             | That Are OBL, FACW, o                          | or FAC: 100 (A/B)                               |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                     |                |                                     |        |             | Prevalence Index work                          | ksheet:   |
| 1. Fraxinus pennsylvanica                                       |                |                                     |        | FACW        | Total % Cover of:                              |   |
| 2   |                |                                     |        |             |  | x 1 = 0   |
| 3   |                |                                     |        |             | 1  | x 2 = 210                                       |
| 4   |                |                                     |        |             | · —  | x 3 = 0<br>x 4 = 40                             |
| 5   |                |                                     |        |             | UPL species 0                                  |   |
| Herb Stratum (Plot size: 5 ft r )                               | 3/0            | = Tota                              | ii Cov |             | Column Totals: 115                             | (A) 250 (B)                                     |
| 1. Phalaris arundinacea   | 90             |                                     |        | FACW        |  | (-)   |
| 2. Bromus inermis   | _ 5            |                                     |        | FACU        | Prevalence Index                               |   |
| 3. Solidago canadensis  | 5              |                                     |        | FACU_       | Hydrophytic Vegetatio                          |   |
| 4   |                |                                     |        |             | 1 - Rapid Test for H                           |   |
| 5   |                |                                     |        |             | 2 - Dominance Test                             |   |
| 6   |                |                                     |        |             | 3 - Prevalence Inde                            | ex is ≤3.0°<br>Adaptations¹ (Provide supporting |
| 7   |                |                                     |        |             | data in Remarks                                | s or on a separate sheet)                       |
| 8   |                |                                     |        |             |  | phytic Vegetation <sup>1</sup> (Explain)        |
| 9<br>10   |                |                                     |        |             |  |   |
| 10.   | 100%           | = Tota                              | I Cov  | er          |  | l and wetland hydrology must                    |
| Woody Vine Stratum (Plot size: 30 ft r )                        |                |                                     |        |             | be present, unless distu                       | irbed or problematic.                           |
| 1. Vitis riparia  | _ 10           |                                     | _      | FACW        | Hydrophytic                                    |   |
| 2   | 10%            |                                     |        |             | Vegetation<br>  Present? Yes                   | s No  |
| Remarks: (Include photo numbers here or on a separate           |                | = Tota                              | l Cov  | er          |  |   |
|   | sneet.)        |                                     |        |             |  |   |
| Hydrophytic vegetation present.                                 |                |                                     |        |             |  |   |
|   |                |                                     |        |             |  |   |

| Profile Desc  | cription: (Describe                        | to the depth   | needed to docu       | ment the i               | indicator          | or confirm       | n the absence of        | indicators.)   |  |  |  |
|---|--|----------------|----------------------|--------------------------|--------------------|------------------|-------------------------|--|--|--|--|
| Depth   | Matrix                                     |                | Red                  | ox Feature               | s                  |                  |                         |  |  |  |  |
| (inches)  | Color (moist)                              | %              | Color (moist)        | %                        | _Type <sup>1</sup> | Loc <sup>2</sup> | Texture                 | Remarks  |  |  |  |
| 0 - 20  | 10YR 5/3                                   | 100            |                      |                          |                    |                  | Sandy Clay Loam         |  |  |  |  |
|   |  |                |                      |                          |                    |                  |                         |  |  |  |  |
| -   |  |                |                      |                          |                    |                  |                         |  |  |  |  |
|   |  |                |                      |                          |                    |                  |                         |  |  |  |  |
|   |  |                |                      |                          |                    |                  |                         |  |  |  |  |
| <u> </u>  |  |                |                      |                          |                    |                  |                         |  |  |  |  |
| <u> </u>  |  |                |                      |                          |                    |                  |                         |  |  |  |  |
|   |  |                |                      |                          |                    |                  |                         |  |  |  |  |
|   | oncentration, D=Dep                        | oletion, RM=F  | Reduced Matrix, M    | IS=Masked                | d Sand Gra         | ains.            |                         | PL=Pore Lining, M=Matrix.                            |  |  |  |
| Hydric Soil   |  |                |                      |                          |                    |                  |                         | r Problematic Hydric Soils³:                         |  |  |  |
| Histosol (A1) Sandy Gleyed Matrix (S4)  |  |                |                      |                          |                    |                  |                         | airie Redox (A16)                                    |  |  |  |
| _   | pipedon (A2)<br>istic (A3)                 |                |                      | Redox (S5<br>d Matrix (S |                    |                  | Dark Surf               | race (S7)<br>ganese Masses (F12)                     |  |  |  |
| ı —   | en Sulfide (A4)                            |                |                      | Mucky Mir                | ,                  |                  |                         | llow Dark Surface (TF12)                             |  |  |  |
|   | d Layers (A5)                              |                |                      | Gleyed Ma                |                    |                  |                         | (plain in Remarks)                                   |  |  |  |
| 2 cm Mu   | uck (A10)                                  |                | Deplet               | ed Matrix (              | F3)                |                  |                         |  |  |  |  |
|   | d Below Dark Surfac                        | e (A11)        | _                    | Dark Surfa               |                    |                  | 2                       |  |  |  |  |
| Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) |  |                |                      |                          |                    |                  |                         | hydrophytic vegetation and                           |  |  |  |
| ı —   | กนcky Mineral (S1)<br>ucky Peat or Peat (S | 3)             | Redox                | Depressio                | ns (F8)            |                  |                         | ydrology must be present,<br>sturbed or problematic. |  |  |  |
|   | Layer (if observed)                        |                |                      |                          |                    |                  | unless dis              | starbed or problematic.                              |  |  |  |
|   |  |                |                      |                          |                    |                  |                         | _  |  |  |  |
|   | ches):                                     |                | _                    |                          |                    |                  | Hydric Soil Pr          | resent? Yes No                                       |  |  |  |
| Remarks:  |  |                |                      |                          |                    |                  |                         |  |  |  |  |
| l localui a   | !  -                                       |                |                      |                          |                    |                  |                         |  |  |  |  |
| Hyaric  | soil absent.                               |                |                      |                          |                    |                  |                         |  |  |  |  |
|   |  |                |                      |                          |                    |                  |                         |  |  |  |  |
|   |  |                |                      |                          |                    |                  |                         |  |  |  |  |
| HYDROLO   | GY   |                |                      |                          |                    |                  |                         |  |  |  |  |
| Wetland Hy  | drology Indicators                         | :              |                      |                          |                    |                  |                         |  |  |  |  |
| Primary Indi  | cators (minimum of                         | one is require | d; check all that a  | pply)                    |                    |                  | Secondary               | Indicators (minimum of two required)                 |  |  |  |
| Surface   | Water (A1)                                 |                | Water-St             | ained Leav               | es (B9)            |                  | Surface                 | e Soil Cracks (B6)                                   |  |  |  |
| High Wa   | ater Table (A2)                            |                | Aquatic F            | auna (B13                | )                  |                  | Drainage Patterns (B10) |  |  |  |  |
| Saturati  | on (A3)                                    |                | True Aqu             | atic Plants              | (B14)              |                  | Dry-Se                  | eason Water Table (C2)                               |  |  |  |
| ı —   | 1arks (B1)                                 |                |                      | Sulfide O                |                    |                  |                         | sh Burrows (C8)                                      |  |  |  |
|   | nt Deposits (B2)                           |                |                      | Rhizosphe                |                    | -                |                         | tion Visible on Aerial Imagery (C9)                  |  |  |  |
|   | posits (B3)                                |                | _                    | of Reduce                | ,                  | ,                | _                       | d or Stressed Plants (D1)                            |  |  |  |
|   | at or Crust (B4)                           |                |                      | on Reducti               |                    | d Solls (Ci      |                         | orphic Position (D2)                                 |  |  |  |
|   | oosits (B5)<br>on Visible on Aerial        | Imageny (B7)   | Thin Muc<br>Gauge or |                          | ,                  |                  | V FAC-N                 | eutral Test (D5)                                     |  |  |  |
| ı —   | y Vegetated Concav                         |                |                      |                          |                    |                  |                         |  |  |  |  |
| Field Obser   |  | e odridoc (Be  |                      | piairiirite              | литко,             |                  |                         |  |  |  |  |
| Surface Wat   |  | es No          | o Depth (ii          | nches):                  |                    |                  |                         |  |  |  |  |
| Water Table   |  |                | Depth (ii            |                          |                    |                  |                         |  |  |  |  |
| Saturation P  |  |                | Depth (ii            |                          |                    |                  | land Hydrology P        | Present? Yes No                                      |  |  |  |
| (includes ca  | pillary fringe)                            |                |                      |                          |                    |                  |                         |  |  |  |  |
| Describe Re   | corded Data (strean                        | n gauge, mon   | itoring well, aerial | photos, pr               | evious ins         | pections),       | if available:           |  |  |  |  |
|   |  |                |                      |                          |                    |                  |                         |  |  |  |  |
| Remarks:  |  |                |                      |                          |                    |                  |                         |  |  |  |  |
| Wetland   | hydrology                                  | absent.        |                      |                          |                    |                  |                         |  |  |  |  |
|   | ,  |                |                      |                          |                    |                  |                         |  |  |  |  |
|   |  |                |                      |                          |                    |                  |                         |  |  |  |  |

| Project/Site: AEP Fostoria to Lima  | (             | City/County                                  | Blufftor       | on/Hancock Sampling Date: 2022-07-03                |   |  |  |  |  |
|---|---------------|--|----------------|---|---|--|--|--|--|
| Applicant/Owner: AEP  |               | State: Ohio Sampling Point: 1-SP-012         |                |   |   |  |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson   |               | Section, Township, Range: OH01 T1S R9E SN21  |                |   |   |  |  |  |  |
|   |               | Local relief (concave, convex, none): Convex |                |   |   |  |  |  |  |
| Slope (%): 2 Lat: 40.944028   |               | Long:83.831458 Datum: WGS 84                 |                |   |   |  |  |  |  |
| Soil Map Unit Name: LbA   |               |  |                | NWI classific                                       | ation: N/A                                  |  |  |  |  |
| Are climatic / hydrologic conditions on the site typical for th   | No_           | (If no, explain in Re                        | emarks.)       |   |   |  |  |  |  |
| Are Vegetation, Soil, or Hydrology  | significantly | disturbed?                                   | Are '          | "Normal Circumstances" p                            | resent? Yes No                              |  |  |  |  |
| Are Vegetation, Soil, or Hydrology  | (If ne        | eeded, explain any answer                    | s in Remarks.) |   |   |  |  |  |  |
| SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. |               |  |                |   |   |  |  |  |  |
| Hydrophytic Vegetation Present? Yes 1   | No            |  |                |   |   |  |  |  |  |
| Hydric Soil Present? Yes N  | No            |  | e Sampled      |   |   |  |  |  |  |
| Wetland Hydrology Present? Yes N  | No            | with   | in a Wetlar    | nd? Yes   | No  |  |  |  |  |
| Remarks:  |               |  |                |   |   |  |  |  |  |
| Not a wetland. Riparian corridor of   | stream        | •  |                |   |   |  |  |  |  |
| VEGETATION – Use scientific names of plants   | ).            |  |                |   |   |  |  |  |  |
| Tree Stratum (Plot size:30 ft r)  | Absolute      | Dominant                                     |                | Dominance Test works                                | sheet:                                      |  |  |  |  |
| Tree Stratum (Plot size: 30 ft r )  1.  |               | Species?                                     | Status         | Number of Dominant Sp<br>That Are OBL, FACW, of     |   |  |  |  |  |
| 2.  |               |  |                |   |   |  |  |  |  |
| 3   |               |  |                | Total Number of Domina<br>Species Across All Strate | _   |  |  |  |  |
| 4   |               |  |                | Percent of Dominant Sp                              | pecies                                      |  |  |  |  |
| 5   |               |  |                | That Are OBL, FACW, o                               |   |  |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )   |               | = Total Cov                                  | er             | Prevalence Index work                               | rsheet:                                     |  |  |  |  |
| 1. Salix nigra  | 50            | •  | OBL            | Total % Cover of:                                   | Multiply by:                                |  |  |  |  |
| 2.  |               |  |                | OBL species 50                                      | x 1 = 50                                    |  |  |  |  |
| 3.  |               |  |                | FACW species 20                                     | x 2 = <u>40</u>                             |  |  |  |  |
| 4   |               |  |                | FAC species 20                                      | x 3 = <u>60</u>                             |  |  |  |  |
| 5   |               |  |                | FACU species 45                                     | x 4 = <u>180</u>                            |  |  |  |  |
| 5 ft r  | 50%           | = Total Cov                                  | er             | UPL species 0                                       | x 5 = 0                                     |  |  |  |  |
| Herb Stratum (Plot size: 5 ft r )  1. Solidago canadensis   | 30            | ~  | FACU           | Column Totals: 135                                  | (A) <u>330</u> (B)                          |  |  |  |  |
| 2. Rubus allegheniensis   | 15            |  | FACU           | Prevalence Index                                    | = B/A = 2.44                                |  |  |  |  |
| 3. Phalaris arundinacea   | 10            |  | FACW           | Hydrophytic Vegetatio                               |   |  |  |  |  |
| 4. Toxicodendron radicans   | 10            |  | FAC            | 1 - Rapid Test for H                                | lydrophytic Vegetation                      |  |  |  |  |
| 5.  |               |  |                | ✓ 2 - Dominance Test                                | t is >50%                                   |  |  |  |  |
| 6   |               |  |                | 3 - Prevalence Inde                                 | x is ≤3.0 <sup>1</sup>                      |  |  |  |  |
| 7   |               |  |                |   | daptations <sup>1</sup> (Provide supporting |  |  |  |  |
| 8   |               |  |                |   | or on a separate sheet)                     |  |  |  |  |
| 9   |               |  |                | Problematic Hydrop                                  | ohytic Vegetation <sup>1</sup> (Explain)    |  |  |  |  |
| 10  |               |  |                | <sup>1</sup> Indicators of hydric soil              | and wetland hydrology must                  |  |  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r)   | 65%           | = Total Cov                                  | er             | be present, unless distu                            |   |  |  |  |  |
| 1. Smilax rotundifolia  | 10            | ~  | FAC            | Usedno plantio                                      |   |  |  |  |  |
| 2. Vitis riparia  | 10            |  | FACW           | Hydrophytic Vegetation                              | .,  |  |  |  |  |
|   | 20%           | = Total Cov                                  | /er            | Present? Yes  | s No  |  |  |  |  |
| Remarks: (Include photo numbers here or on a separate   | sheet.)       |  |                | 1   |   |  |  |  |  |
| Hydrophytic vegetation present.   |               |  |                |   |   |  |  |  |  |
| ,   |               |  |                |   |   |  |  |  |  |

| Profile Description: (Describe to the depth no          | eeded to document the indicator or c              | onfirm the absence of indicators.)  |
|---|---|---|
| Depth Matrix  | Redox Features                                    |   |
| (inches) Color (moist) % C                              | Color (moist) % Type <sup>1</sup> L               | oc <sup>2</sup> Texture Remarks   |
| 0 - 10 10YR 4/4 100                                     |   | Sandy Loam  |
| -   |   |   |
|   |   |   |
|   |   |   |
| <del></del>   |   |   |
|   |   |   |
|   |   |   |
| -   |   |   |
| <sup>1</sup> Type: C=Concentration, D=Depletion, RM=Rec | Juced Matrix MS=Masked Sand Grains                | . <sup>2</sup> Location: PL=Pore Lining, M=Matrix.  |
| Hydric Soil Indicators:                                 | naciona matrix, mo macroa caria cramo.            | Indicators for Problematic Hydric Soils <sup>3</sup> :                                      |
| Histosol (A1)   | Sandy Gleyed Matrix (S4)                          | Coast Prairie Redox (A16)   |
| Histic Epipedon (A2)                                    | Sandy Redox (S5)                                  | Dark Surface (S7)   |
| Black Histic (A3)                                       | Stripped Matrix (S6)                              | Iron-Manganese Masses (F12)   |
| Hydrogen Sulfide (A4)                                   | Loamy Mucky Mineral (F1)                          | Very Shallow Dark Surface (TF12)  |
| Stratified Layers (A5)                                  | Loamy Gleyed Matrix (F2)                          | Other (Explain in Remarks)  |
| 2 cm Muck (A10)   | Depleted Matrix (F3)                              |   |
| Depleted Below Dark Surface (A11)                       | Redox Dark Surface (F6)                           | 3 and instance of building building and   |
| Thick Dark Surface (A12) Sandy Mucky Mineral (S1)       | Depleted Dark Surface (F7) Redox Depressions (F8) | <sup>3</sup> Indicators of hydrophytic vegetation and<br>wetland hydrology must be present, |
| 5 cm Mucky Peat or Peat (S3)                            | Redox Depressions (Fo)                            | unless disturbed or problematic.  |
| Restrictive Layer (if observed):                        |   | unless distances of problematic.  |
| Type: Gravel  |   |   |
| Depth (inches): 10                                      | •   | Hydric Soil Present? Yes No   |
| Remarks:  | -   |   |
| Hydric soil absent.                                     |   |   |
| HYDROLOGY   |   |   |
| Wetland Hydrology Indicators:                           |   |   |
| Primary Indicators (minimum of one is required;         | check all that apply)                             | Secondary Indicators (minimum of two required)  |
| Surface Water (A1)                                      | Water-Stained Leaves (B9)                         | Surface Soil Cracks (B6)  |
| High Water Table (A2)                                   | Aquatic Fauna (B13)                               | Drainage Patterns (B10)   |
| Saturation (A3)   | True Aquatic Plants (B14)                         | Dry-Season Water Table (C2)   |
| Water Marks (B1)  | Hydrogen Sulfide Odor (C1)                        | Crayfish Burrows (C8)   |
| Sediment Deposits (B2)                                  | Oxidized Rhizospheres on Living I                 | Roots (C3) Saturation Visible on Aerial Imagery (C9)  |
| Drift Deposits (B3)                                     | Presence of Reduced Iron (C4)                     | Stunted or Stressed Plants (D1)   |
| Algal Mat or Crust (B4)                                 | Recent Iron Reduction in Tilled So                | oils (C6) Geomorphic Position (D2)  |
| Iron Deposits (B5)                                      | Thin Muck Surface (C7)                            | FAC-Neutral Test (D5)   |
| Inundation Visible on Aerial Imagery (B7)               | Gauge or Well Data (D9)                           |   |
| Sparsely Vegetated Concave Surface (B8)                 | Other (Explain in Remarks)                        |   |
| Field Observations:                                     |   |   |
|   | Depth (inches):                                   |   |
| Water Table Present? Yes No _                           | Depth (inches):                                   | _   |
| (includes capillary fringe)                             | Depth (inches):                                   | Wetland Hydrology Present? Yes No   |
| Describe Recorded Data (stream gauge, monitor           | ring well, aerial photos, previous inspect        | tions), if available:   |
|   |   |   |
| Remarks:  |   |   |
| Wetland hydrology absent.                               |   |   |
| , 3, 1111 1   |   |   |
|   |   |   |

| Project/Site: AEP Fostoria to Lima                              | (                   | City/Co                              | ounty | Bluffton    | n/Allen Sampling Date: 2022-07-0  | 14 |
|---|---------------------|--------------------------------------|-------|-------------|---|----|
| Applicant/Owner: AEP  |                     | State: Ohio Sampling Point: 1-SP-013 |       |             |   |    |
| Investigator(s): Beth Hollinden, Chris Davisson                 |                     | Section                              | n, To | wnship, Rar | nge: OH01 T1S R8E SN35  |    |
| Landform (hillslope, terrace, etc.): Flat                       |                     |                                      | ı     | ocal relief | (concave, convex, none): None   |    |
| Slope (%): 0 Lat: 40.905926                                     |                     | Long:                                | -83   | .905007     | Datum: WGS 84   | _  |
| Soil Map Unit Name: Blg1B1                                      |                     |                                      |       |             | NWI classification: PFO1A   | _  |
| Are climatic / hydrologic conditions on the site typical for th | is time of yea      | ar? Ye                               | es    | No          | (If no, explain in Remarks.)  |    |
| Are Vegetation, Soil, or Hydrology                              | significantly       | disturb                              | ed?   | Are "       | "Normal Circumstances" present? Yes No  | _  |
| Are Vegetation, Soil, or Hydrology                              | naturally pro       | blemat                               | tic?  | (If ne      | eeded, explain any answers in Remarks.)   |    |
| SUMMARY OF FINDINGS - Attach site map                           | showing             | sam                                  | pling | g point lo  | ocations, transects, important features, etc  | ۶. |
| Hydrophytic Vegetation Present? Yes 1                           | No                  |                                      |       |             |   |    |
| Hydric Soil Present? Yes N                                      | No                  |                                      |       | e Sampled   |   |    |
| Wetland Hydrology Present? Yes N                                | No                  |                                      | with  | in a Wetlan | nd? Yes No  |    |
| Remarks:  |                     |                                      |       |             |   |    |
| Not a wetland.  |                     |                                      |       |             |   |    |
| VECETATION . Has according names of plants                      |                     |                                      |       |             |   | _  |
| <b>VEGETATION</b> – Use scientific names of plants              |                     | Domi                                 | inont | Indicator   | Dominance Test worksheet  | _  |
| Tree Stratum (Plot size: 30 ft r )                              | Absolute<br>% Cover |                                      |       |             | Dominance Test worksheet:  Number of Dominant Species   |    |
| 1. Celtis occidentalis  | 40                  | ~                                    |       | FAC         | That Are OBL, FACW, or FAC: 4 (A)   |    |
| 2. Aesculus glabra  | 20                  | _                                    |       | FAC         | Total Number of Deminant  |    |
| 3. Juglans nigra  | _ 10                |                                      |       | FACU_       | Total Number of Dominant Species Across All Strata: 6 (B)   |    |
| 4   |                     |                                      |       |             | Percent of Dominant Species   |    |
| 5   |                     |                                      |       |             | That Are OBL, FACW, or FAC: 66.7 (A/B)  | ,  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                     | 70%                 | = Tota                               | l Cov | er          | Prevalence Index worksheet:   | _  |
| 1. Aesculus glabra  | 15                  | V                                    | ,     | FAC         | Total % Cover of: Multiply by:  |    |
| 2. Carya ovata  | 10                  |                                      | ,     | FACU        | OBL species 0 x 1 = 0   |    |
| 3.  |                     |                                      |       |             | FACW species $0 \times 2 = 0$   |    |
| 4   |                     |                                      |       |             | FAC species 105 x 3 = 315   |    |
| 5.  |                     |                                      |       |             | FACU species 60 x 4 = 240   |    |
| F.4   | 25%                 | = Tota                               | l Cov | er          | UPL species 0 x 5 = 0   |    |
| Herb Stratum (Plot size: 5 ft r )  1. Carya ovata               | 40                  | V                                    | ,     | FACU        | Column Totals: <u>165</u> (A) <u>555</u> (B)  |    |
| 2. Geum canadense   | - 30                |                                      |       | FAC         | Prevalence Index = B/A = 3.36   |    |
|   |                     |                                      |       |             | Hydrophytic Vegetation Indicators:  | _  |
| 3   |                     |                                      |       |             | 1 - Rapid Test for Hydrophytic Vegetation   |    |
| 4<br>5  |                     |                                      |       |             | ✓ 2 - Dominance Test is >50%  |    |
| 6   |                     |                                      |       |             | 3 - Prevalence Index is ≤3.0¹   |    |
| 7   |                     |                                      |       |             | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting  | 3  |
| 8   |                     |                                      |       |             | data in Remarks or on a separate sheet)   |    |
| 9.  |                     |                                      |       |             | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |    |
| 10  |                     |                                      |       |             | Notice to a self-order of the design of the |    |
|   |                     | = Tota                               | l Cov | er          | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic.   |    |
| Woody Vine Stratum (Plot size: 30 ft r )                        |                     |                                      |       |             |   | -  |
| 1   |                     |                                      |       |             | Hydrophytic Vegetation  |    |
| 2   |                     | <br>= Tota                           |       |             | Present? Yes No   |    |
| Remarks: (Include photo numbers here or on a separate           |                     | - 1018                               | 000   | C1          |   | _  |
|   | /                   |                                      |       |             |   |    |
| Hydrophytic vegetation present.                                 |                     |                                      |       |             |   |    |
|   |                     |                                      |       |             |   |    |

Soll Sampling Point: 1-SP-013

| Profile Desc   | ription: (Describe                     | to the depth    | needed to docu     | ment the i         | ndicator             | or confirm        | n the absence of ir         | ndicators.)  |  |  |  |
|--|--|-----------------|--------------------|--------------------|----------------------|-------------------|-----------------------------|--|--|--|--|
| Depth  | Matrix                                 |                 |                    | ox Feature         |                      |                   |                             |  |  |  |  |
| (inches)   | Color (moist)                          |                 | Color (moist)      | %                  | _Type <sup>1</sup> _ | _Loc <sup>2</sup> | Texture                     | Remarks  |  |  |  |
| 0 - 20   | 10YR 5/3                               | 100             |                    |                    |                      |                   | Silt Loam                   |  |  |  |  |
|  |  |                 |                    | _                  |                      |                   |                             |  |  |  |  |
|  |  |                 |                    |                    |                      |                   |                             |  |  |  |  |
|  |  |                 |                    |                    |                      |                   |                             |  |  |  |  |
| l —  |  |                 |                    |                    |                      |                   |                             |  |  |  |  |
| <u> </u>   |  | - —— —          |                    |                    |                      |                   |                             |  |  |  |  |
|  |  |                 |                    |                    |                      |                   |                             |  |  |  |  |
| _  |  |                 |                    |                    |                      |                   |                             |  |  |  |  |
| <sup>1</sup> Type: C=C   | oncentration, D=Dep                    | oletion RM=Re   | educed Matrix M    | – ———<br>IS=Masked | Sand Gra             | ains              | 2l ocation: Pl              | .=Pore Lining, M=Matrix.                               |  |  |  |
| Hydric Soil  |  |                 |                    |                    |                      |                   |                             | Problematic Hydric Soils <sup>3</sup> :                |  |  |  |
| Histosol   | (A1)                                   |                 | Sandy              | Gleyed Ma          | atrix (S4)           |                   | Coast Prair                 | rie Redox (A16)  |  |  |  |
| Histic Epipedon (A2) Sandy Redox (S5)  |  |                 |                    |                    |                      |                   | Dark Surfa                  | . ,  |  |  |  |
| Black Histic (A3)  Stripped Matrix (S6)  |  |                 |                    |                    |                      |                   | Iron-Manga                  | anese Masses (F12)                                     |  |  |  |
|  | en Sulfide (A4)                        |                 |                    | Mucky Mir          | , ,                  |                   |                             | ow Dark Surface (TF12)                                 |  |  |  |
| 1  | d Layers (A5)                          |                 |                    | Gleyed Ma          |                      |                   | Other (Exp                  | lain in Remarks)                                       |  |  |  |
| _  | ıck (A10)                              | (4.4.4)         |                    | ed Matrix (        |                      |                   |                             |  |  |  |  |
|  | d Below Dark Surfac                    | e (A11)         | _                  | Dark Surfa         | . ,                  |                   | 31                          |  |  |  |  |
| Thick Dark Surface (A12)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1)  Redox Depressions (F8) |  |                 |                    |                    |                      |                   |                             | lydrophytic vegetation and<br>drology must be present, |  |  |  |
| ı —  | icky Peat or Peat (S                   | 3)              | Kedox              | Depressio          | 115 (1-0)            |                   | •                           | urbed or problematic.                                  |  |  |  |
|  | Layer (if observed)                    | -               |                    |                    |                      |                   | arriodo diot                | arbed of problematic.                                  |  |  |  |
|  | ,                                      |                 |                    |                    |                      |                   |                             |  |  |  |  |
|  | ches):                                 |                 | _                  |                    |                      |                   | Hydric Soil Pres            | sent? Yes No   |  |  |  |
| Remarks:   |  |                 |                    |                    |                      |                   |                             |  |  |  |  |
| Hydrics  | soil absent.                           |                 |                    |                    |                      |                   |                             |  |  |  |  |
| HYDROLO  | GY                                     |                 |                    |                    |                      |                   |                             |  |  |  |  |
| Wetland Hy   | drology Indicators:                    |                 |                    |                    |                      |                   |                             |  |  |  |  |
| Primary India  | cators (minimum of o                   | one is required | ; check all that a | pply)              |                      |                   | Secondary Ir                | ndicators (minimum of two required)                    |  |  |  |
| Surface  | Water (A1)                             |                 | Water-St           | ained Leav         | es (B9)              |                   | Surface                     | Soil Cracks (B6)                                       |  |  |  |
| High Wa  | ater Table (A2)                        |                 | Aquatic F          | auna (B13          | )                    |                   | Drainage                    | e Patterns (B10)                                       |  |  |  |
| Saturation   | on (A3)                                |                 | True Aqu           | atic Plants        | (B14)                |                   | Dry-Season Water Table (C2) |  |  |  |  |
| Water M  | larks (B1)                             |                 | Hydroger           | Sulfide O          | dor (C1)             |                   | Crayfish Burrows (C8)       |  |  |  |  |
| Sedimer  | nt Deposits (B2)                       |                 | Oxidized           | Rhizosphe          | res on Livi          | ing Roots         | (C3) Saturation             | on Visible on Aerial Imagery (C9)                      |  |  |  |
| Drift De   | oosits (B3)                            |                 | Presence           | of Reduce          | ed Iron (C4          | 1)                | Stunted                     | or Stressed Plants (D1)                                |  |  |  |
| Algal Ma   | at or Crust (B4)                       |                 | Recent Ir          | on Reducti         | on in Tilled         | d Soils (C        | 6) Geomor                   | phic Position (D2)                                     |  |  |  |
| Iron Dep   | oosits (B5)                            |                 | Thin Muc           | k Surface (        | C7)                  |                   | FAC-Ne                      | utral Test (D5)  |  |  |  |
| ı —  | on Visible on Aerial                   |                 | Gauge or           | Well Data          | (D9)                 |                   |                             |  |  |  |  |
| Sparsely   | y Vegetated Concav                     | e Surface (B8)  | Other (Ex          | oplain in Re       | emarks)              |                   |                             |  |  |  |  |
| Field Obser  |  |                 |                    |                    |                      |                   |                             |  |  |  |  |
| Surface Wat  |  |                 | Depth (ii          |                    |                      |                   |                             |  |  |  |  |
| Water Table  | Present?                               | 'es No          | Depth (ii          | nches):            |                      | _                 |                             |  |  |  |  |
| Saturation P   |  | 'es No          | Depth (ii          | nches):            |                      | _ Wet             | and Hydrology Pro           | esent? Yes No  |  |  |  |
|  | oillary fringe)<br>corded Data (strean | n gauge, monit  | oring well, aerial | photos, pr         | evious ins           | pections).        | if available:               |  |  |  |  |
|  | (2.1.2011)                             | J               |                    | ,, p.              |                      | ,,,               |                             |  |  |  |  |
| Remarks:   |  |                 |                    |                    |                      |                   |                             |  |  |  |  |
| Wetland  | l hydrology a                          | ahsent          |                    |                    |                      |                   |                             |  |  |  |  |
| VVCtiant   | i iiyai ology                          | abscrit.        |                    |                    |                      |                   |                             |  |  |  |  |
|  |  |                 |                    |                    |                      |                   |                             |  |  |  |  |

| Project/Site: AEP Fostoria to Lima                                | C             | City/Co     | unty: _                  | Bluffton    | ı/Allen   | Sampling Date: 2022-07-04   |
|---|---------------|-------------|--------------------------|-------------|---|---|
| Applicant/Owner: AEP  |               | State: Ohio | Sampling Point: 1-SP-014 |             |   |   |
| Investigator(s): Beth Hollinden, Chris Davisson                   |               | Section     | n, Tow                   | nship, Rar  | <sub>nge:</sub> OH01 T2S R8E S                      | N2  |
| Landform (hillslope, terrace, etc.): Flat                         |               |             | Lo                       | ocal relief | (concave, convex, none):                            | None  |
| Slope (%): 0 Lat: 40.900769                                       | ι             | ong: _      | -83.9                    | 903197      |   | Datum: WGS 84   |
| Soil Map Unit Name: PmA   |               |             |                          |             | NWI classific                                       | ation: N/A  |
| Are climatic / hydrologic conditions on the site typical for this |               |             |                          |             |   |   |
| Are Vegetation, Soil, or Hydrology signature.                     | gnificantly d | disturbe    | ed?                      | Are "       | Normal Circumstances" p                             | resent? Yes No  |
| Are Vegetation, Soil, or Hydrology na                             | aturally prot | olemati     | ic?                      | (If ne      | eded, explain any answer                            | rs in Remarks.)   |
| SUMMARY OF FINDINGS - Attach site map s                           | howing        | samp        | pling                    | point le    | ocations, transects                                 | , important features, etc.  |
| Hydrophytic Vegetation Present? Yes No                            |               |             |                          |             |   |   |
| Hydric Soil Present? Yes No                                       |               |             |                          | Sampled     |   |   |
| Wetland Hydrology Present? Yes No                                 | ·             | '           | within                   | n a Wetlan  | nd? Yes   | No  |
| Remarks:  |               |             |                          |             |   |   |
| Not a wetland.  |               |             |                          |             |   |   |
| VEGETATION – Use scientific names of plants.                      |               |             |                          |             |   |   |
| 20 ft "   |               |             |                          | ndicator    | Dominance Test work                                 | sheet:  |
| 1   | % Cover       |             |                          | Status      | Number of Dominant Sp<br>That Are OBL, FACW, of     |   |
| 2   |               |             |                          |             | , ,   |   |
| 3   |               |             |                          |             | Total Number of Domina<br>Species Across All Strate | _   |
| 4   |               |             |                          |             | Percent of Dominant Sp                              | necies  |
| 5   |               |             |                          |             | That Are OBL, FACW, o                               |   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |               | = Total     | I Cove                   | r           | Prevalence Index work                               | ksheet:   |
| 1   |               |             |                          |             | Total % Cover of:                                   |   |
| 2   |               |             |                          |             | OBL species 0                                       | x 1 = <u>0</u>  |
| 3   |               |             |                          |             | FACW species 60                                     |   |
| 4   |               |             |                          |             |   | x 3 = <u>90</u>   |
| 5   |               |             |                          |             | _   | x 4 = 40  |
| Herb Stratum (Plot size: 5 ft r )                                 | :             | = Total     | I Cove                   | r           | UPL species 0                                       | x 5 = 0   |
| 1. Phalaris arundinacea   | 60            | ~           | , I                      | FACW        | Column Totals: 100                                  | (A) <u>250</u> (B)  |
| 2. Apocynum cannabinum  | 30            |             | · ī                      | FAC         | Prevalence Index                                    | = B/A = <u>2.50</u>   |
| 3. Cirsium vulgare  | 10            |             | ]                        | FACU        | Hydrophytic Vegetation                              |   |
| 4   |               |             |                          |             | 1 - Rapid Test for H                                | lydrophytic Vegetation  |
| 5   |               |             |                          |             | 2 - Dominance Tes                                   |   |
| 6   |               |             |                          |             | 3 - Prevalence Inde                                 |   |
| 7   |               |             |                          |             | 4 - Morphological A                                 | daptations <sup>1</sup> (Provide supporting s or on a separate sheet) |
| 8   |               |             |                          |             | 1   | phytic Vegetation <sup>1</sup> (Explain)                              |
| 9   |               |             |                          |             |   | my no regenation (Emplani)  |
| 10  | 100%          |             |                          |             |   | and wetland hydrology must  |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 10070         | - Total     | Cove                     | '           | be present, unless distu                            | rbed or problematic.  |
| 1   |               |             |                          |             | Hydrophytic   |   |
| 2   |               |             |                          |             | Vegetation<br>  Present? Yes                        | s No  |
| Remarks: (Include photo numbers here or on a separate si          |               | = Total     | Cove                     | ı           |   |   |
|   | ,             |             |                          |             |   |   |
| Hydrophytic vegetation present.                                   |               |             |                          |             |   |   |

| Profile Desc  | cription: (Describe                        | to the dept                                   | h needed to docun       | nent the                  | indicator         | or confire       | n the absence of i          | ndicators.)                                       |  |  |  |
|---|--|---|-------------------------|---------------------------|-------------------|------------------|-----------------------------|---|--|--|--|
| Depth   | Matrix                                     |   |                         |                           |                   |                  |                             |   |  |  |  |
| (inches)  | Color (moist)                              | %   | Color (moist)           | %                         | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                     | Remarks   |  |  |  |
| 0 - 20  | 10YR 4/2                                   | <u>95                                    </u> | 10YR 5/6                | 5                         | <u> </u>          | <u>M</u>         | Silt Loam                   |   |  |  |  |
|   |  |   |                         |                           |                   |                  |                             |   |  |  |  |
|   |  |   |                         |                           |                   |                  |                             |   |  |  |  |
|   |  |   |                         |                           |                   |                  |                             |   |  |  |  |
|   |  |   |                         |                           |                   |                  |                             | _   |  |  |  |
| <u> </u>  |  |   |                         |                           |                   |                  |                             |   |  |  |  |
| <u> </u>  |  |   |                         |                           |                   |                  |                             |   |  |  |  |
|   |  |   |                         |                           |                   |                  |                             |   |  |  |  |
|   | oncentration, D=Dep                        | oletion, RM=                                  | Reduced Matrix, MS      | S=Masked                  | d Sand Gr         | ains.            |                             | _=Pore Lining, M=Matrix.                          |  |  |  |
| Hydric Soil   | Indicators:                                |   |                         |                           |                   |                  |                             | Problematic Hydric Soils <sup>3</sup> :           |  |  |  |
| Histosol  |  |   |                         | -                         | atrix (S4)        |                  |                             | rie Redox (A16)                                   |  |  |  |
| I —   | pipedon (A2)<br>istic (A3)                 |   |                         | Redox (S5<br>I Matrix (\$ | •                 |                  | Dark Surfa                  | ice (S7)<br>anese Masses (F12)                    |  |  |  |
| ı —   | en Sulfide (A4)                            |   |                         |                           | neral (F1)        |                  |                             | ow Dark Surface (TF12)                            |  |  |  |
| 1 — , ,   | d Layers (A5)                              |   |                         |                           | atrix (F2)        |                  |                             | plain in Remarks)                                 |  |  |  |
|   | uck (A10)                                  |   | ✓ Deplete               |                           |                   |                  |                             |   |  |  |  |
| ı —   | d Below Dark Surfac                        | e (A11)                                       | _                       | Oark Surfa                |                   |                  | 2                           |   |  |  |  |
| Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) |  |   |                         |                           |                   |                  |                             | nydrophytic vegetation and                        |  |  |  |
| 1 — 1   | Mucky Mineral (S1)<br>ucky Peat or Peat (S | 3)  | Redox L                 | pepressio                 | ns (F8)           |                  | ,                           | drology must be present,<br>urbed or problematic. |  |  |  |
|   | Layer (if observed)                        |   |                         |                           |                   |                  | unless dist                 | dibed of problematic.                             |  |  |  |
|   | ,  |   |                         |                           |                   |                  |                             |   |  |  |  |
| 1   | ches):                                     |   |                         |                           |                   |                  | Hydric Soil Pre             | sent? Yes No                                      |  |  |  |
| Remarks:  |  |   |                         |                           |                   |                  |                             |   |  |  |  |
| l localed a   | :1   |   |                         |                           |                   |                  |                             |   |  |  |  |
| Hyaric  | soil present.                              |   |                         |                           |                   |                  |                             |   |  |  |  |
|   |  |   |                         |                           |                   |                  |                             |   |  |  |  |
|   |  |   |                         |                           |                   |                  |                             |   |  |  |  |
| HYDROLO   | GY   |   |                         |                           |                   |                  |                             |   |  |  |  |
| Wetland Hy  | drology Indicators:                        | :   |                         |                           |                   |                  |                             |   |  |  |  |
| Primary Indi  | cators (minimum of                         | one is requir                                 | ed; check all that ap   | ply)                      |                   |                  | Secondary Ir                | ndicators (minimum of two required)               |  |  |  |
| Surface   | Water (A1)                                 |   | Water-Stai              | ned Leav                  | res (B9)          |                  | Surface                     | Soil Cracks (B6)                                  |  |  |  |
| High Wa   | ater Table (A2)                            |   | Aquatic Fa              | una (B13                  | 5)                |                  | Drainage Patterns (B10)     |   |  |  |  |
| Saturati  | on (A3)                                    |   | True Aqua               | tic Plants                | (B14)             |                  | Dry-Season Water Table (C2) |   |  |  |  |
| ı —   | 1arks (B1)                                 |   | Hydrogen                |                           |                   |                  |                             | Burrows (C8)                                      |  |  |  |
|   | nt Deposits (B2)                           |   | Oxidized R              |                           |                   | -                |                             | on Visible on Aerial Imagery (C9)                 |  |  |  |
| I —   | posits (B3)                                |   | Presence                |                           | `                 | ,                | _                           | or Stressed Plants (D1)                           |  |  |  |
|   | at or Crust (B4)                           |   | Recent Iro              |                           |                   | d Soils (C       | -                           | phic Position (D2)                                |  |  |  |
|   | oosits (B5)<br>on Visible on Aerial        | Imagen/ (P7                                   | Thin Muck ) Gauge or \  |                           | ` '               |                  | FAC-Ne                      | utral Test (D5)                                   |  |  |  |
| ı —   | y Vegetated Concav                         |   |                         |                           |                   |                  |                             |   |  |  |  |
| Field Obser   |  | e ouridoe (E                                  | Other (Exp              | , and in the              | Jiliarko,         |                  |                             |   |  |  |  |
| Surface Wat   |  | es N  | No Depth (inc           | ches):                    |                   |                  |                             |   |  |  |  |
| Water Table   |  |   | lo Depth (inc           |                           |                   |                  |                             |   |  |  |  |
| Saturation P  |  |   | lo Depth (inc           |                           |                   |                  | land Hydrology Pr           | esent? Yes No                                     |  |  |  |
| (includes ca  | pillary fringe)                            |   |                         |                           |                   |                  |                             |   |  |  |  |
| Describe Re   | corded Data (stream                        | n gauge, mo                                   | nitoring well, aerial p | photos, pr                | evious ins        | spections),      | if available:               |   |  |  |  |
| D   |  |   |                         |                           |                   |                  |                             |   |  |  |  |
| Remarks:  |  |   |                         |                           |                   |                  |                             |   |  |  |  |
| Wetland   | d hydrology a                              | absent.                                       |                         |                           |                   |                  |                             |   |  |  |  |
|   |  |   |                         |                           |                   |                  |                             |   |  |  |  |
|   |  |   |                         |                           |                   |                  |                             |   |  |  |  |

| Project/Site: AEP Fostoria to Lima                             | City/C                 | ounty: Bluffton   | /Allen   | Sampling Date: 2022-07-04                             |
|--|------------------------|-------------------|--|---|
| Applicant/Owner: AEP   |                        | State: Ohio       | Sampling Point: 1-SP-015                               |   |
| Investigator(s): Beth Hollinden, Chris Davisson                | Section                | on, Township, Rar | nge: OH01 T2S R8E S                                    | SN10  |
| Landform (hillslope, terrace, etc.): Flat                      |                        | Local relief (    | (concave, convex, none):                               | None  |
| Slope (%): 0 Lat: 40.889784                                    | Long:                  | -83.924779        |  | Datum: WGS 84   |
| Soil Map Unit Name: PmA  |                        |                   | NWI classific  | ation: R4SBC  |
| Are climatic / hydrologic conditions on the site typical for t | this time of year? Y   |                   |  |   |
| Are Vegetation, Soil, or Hydrology                             | _ significantly distur | bed? Are "I       | Normal Circumstances" p                                | resent? Yes No  |
| Are Vegetation, Soil, or Hydrology                             | _ naturally problema   | atic? (If ne      | eded, explain any answe                                | rs in Remarks.)                                       |
| SUMMARY OF FINDINGS - Attach site ma                           | p showing sam          | npling point lo   | ocations, transects                                    | , important features, etc.                            |
| Hydrophytic Vegetation Present? Yes                            | No                     |                   |  |   |
| Hydric Soil Present? Yes                                       |                        | Is the Sampled    |  | 1/  |
| Wetland Hydrology Present? Yes                                 | No                     | within a Wetlan   | d? Yes   | No  |
| Remarks:   |                        |                   |  |   |
| Not a wetland. Agricultural field.                             |                        |                   |  |   |
| VEGETATION – Use scientific names of plant                     | ts.                    |                   |  |   |
| 7 0 1 10 10 10 10 10 10 10 10 10 10 10 10                      |                        | ninant Indicator  | Dominance Test work                                    | sheet:  |
| Tree Stratum (Plot size: 30 ft r ) 1.                          | % Cover Spe            |                   | Number of Dominant Sp<br>That Are OBL, FACW, o         |   |
| 2  |                        |                   | Total Number of Domin                                  | ant   |
| 3  |                        |                   | Species Across All Stra                                | _   |
| 4  |                        |                   | Percent of Dominant Sp                                 |   |
| 5  | = Tot                  | al Cover          | That Are OBL, FACW, o                                  | or FAC: NaN (A/B)                                     |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                    | =100                   | ai Covei          | Prevalence Index work                                  | ksheet:   |
| 1  |                        |                   | Total % Cover of:                                      |   |
| 2  |                        |                   |  | x 1 = 0   |
| 3  |                        |                   | · -  | x 2 = 0   |
| 4  |                        | — — I             | ·  | x 3 = 0 $x 4 = 0$                                     |
| 5  |                        | -1.0              |  | $x = \frac{0}{0}$                                     |
| Herb Stratum (Plot size: 5 ft r )                              | = lot                  | al Cover          |  | (A) 0 (B)   |
| 1. Zea mays  | 30                     | <u> </u>          |  |   |
| 2  |                        |                   | Prevalence Index                                       |   |
| 3  |                        |                   | Hydrophytic Vegetation                                 |   |
| 4  |                        |                   | 1 - Rapid Test for F<br>2 - Dominance Tes              |   |
| 5  |                        |                   | 3 - Prevalence Inde                                    |   |
| 6  |                        |                   |  | Adaptations <sup>1</sup> (Provide supporting          |
| 7<br>8   |                        |                   | data in Remarks  | s or on a separate sheet)                             |
| 9  |                        |                   | Problematic Hydrop                                     | ohytic Vegetation¹ (Explain)                          |
| 10   |                        |                   | 4  |   |
| Woody Vine Stratum (Plot size: 30 ft r                         |                        | al Cover          | 'Indicators of hydric soil<br>be present, unless distu | l and wetland hydrology must<br>urbed or problematic. |
| 1  |                        |                   | Hydrophytic  |   |
| 2  |                        |                   | Vegetation   | No. V   |
|  | = Tot                  | al Cover          | Present? Yes   | s No  |
| Remarks: (Include photo numbers here or on a separat           | ,                      |                   |  |   |
| Hydrophytic vegetation present.                                | 70% bare gr            | ound due t        | to farming.  |   |

| Profile Desc                                   | ription: (Describe               | to the depth         | needed to docur        | nent the                 | indicator          | or confirm        | n the absence of in        | dicators.)                              |
|--|----------------------------------|----------------------|------------------------|--------------------------|--------------------|-------------------|----------------------------|---|
| Depth  | Matrix                           |                      |                        | x Feature                |                    |                   |                            |   |
| (inches)                                       | Color (moist)                    | %                    | Color (moist)          | %                        | _Type <sup>1</sup> | _Loc <sup>2</sup> |                            | Remarks                                 |
| 0 - 20   | 10YR 6/3                         | _ <u>95</u> <u>1</u> | 0YR 6/8                | 5                        | <u> </u>           | <u>M</u>          | Silty Clay                 |   |
|  |                                  |                      |                        |                          |                    |                   |                            |   |
| -  |                                  |                      |                        |                          |                    |                   |                            |   |
|  |                                  |                      |                        |                          |                    |                   |                            |   |
|  |                                  |                      |                        |                          |                    |                   |                            |   |
| <u> </u>                                       |                                  |                      |                        |                          |                    |                   |                            |   |
| l  |                                  |                      |                        |                          |                    |                   |                            |   |
|  |                                  |                      |                        |                          |                    |                   |                            |   |
| <sup>1</sup> Type: C=Ce                        | oncentration, D=De               | oletion, RM=R        | Reduced Matrix, MS     | S=Maske                  | d Sand Gr          | ains.             | <sup>2</sup> Location: PL= | =Pore Lining, M=Matrix.                 |
| Hydric Soil                                    |                                  |                      | ·                      |                          |                    |                   |                            | Problematic Hydric Soils <sup>3</sup> : |
| Histosol                                       | (A1)                             |                      | Sandy 0                | Sleyed Ma                | atrix (S4)         |                   | Coast Prairi               | e Redox (A16)                           |
| Histic Ep                                      | oipedon (A2)                     |                      | Sandy F                | Redox (S                 | 5)                 |                   | Dark Surfac                | e (S7)                                  |
| Black Histic (A3) Stripped Matrix (S6)         |                                  |                      |                        |                          |                    |                   | nese Masses (F12)          |   |
| Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) |                                  |                      |                        |                          |                    |                   | w Dark Surface (TF12)      |   |
| ı —  | d Layers (A5)                    |                      |                        |                          | atrix (F2)         |                   | Other (Expla               | ain in Remarks)                         |
| _  | ick (A10)<br>d Below Dark Surfac | co (Λ11)             |                        | d Matrix (<br>Dark Surfa |                    |                   |                            |   |
| ı —  | ark Surface (A12)                | Je (ATT)             | _                      |                          | urface (F7         | )                 | 3Indicators of hy          | ydrophytic vegetation and               |
| _  | fucky Mineral (S1)               |                      |                        | Depressio                |                    | ,                 |                            | rology must be present,                 |
|  | ıcky Peat or Peat (S             | 33)                  | _                      |                          |                    |                   |                            | rbed or problematic.                    |
| Restrictive I                                  | Layer (if observed)              | ):                   |                        |                          |                    |                   |                            |   |
| Type:  |                                  |                      | _                      |                          |                    |                   |                            |   |
| Depth (in                                      | ches):                           |                      | _                      |                          |                    |                   | Hydric Soil Pres           | ent? Yes No                             |
| Remarks:                                       |                                  |                      |                        |                          |                    |                   |                            |   |
| Hydric   | soil absent.                     |                      |                        |                          |                    |                   |                            |   |
| HYDROLO  | GY                               |                      |                        |                          |                    |                   |                            |   |
| Wetland Hy                                     | drology Indicators               | :                    |                        |                          |                    |                   |                            |   |
| Primary India                                  | cators (minimum of               | one is required      | d; check all that ap   | ply)                     |                    |                   | Secondary Inc              | dicators (minimum of two required)      |
| Surface  | Water (A1)                       |                      | Water-Sta              | ned Leav                 | res (B9)           |                   | Surface S                  | Soil Cracks (B6)                        |
| 1 — •  | iter Table (A2)                  |                      | Aquatic Fa             | ,                        | ,                  |                   | _ ,                        | Patterns (B10)                          |
| Saturation                                     | , ,                              |                      | True Aqua              |                          | , ,                |                   | _ ′                        | son Water Table (C2)                    |
| Water M  |                                  |                      | Hydrogen               |                          |                    |                   |                            | Burrows (C8)                            |
|  | nt Deposits (B2)                 |                      | Oxidized F             |                          |                    | -                 | . , —                      | n Visible on Aerial Imagery (C9)        |
| ı —  | posits (B3)                      |                      | Presence               |                          | •                  | •                 | _                          | or Stressed Plants (D1)                 |
| -  | at or Crust (B4)                 |                      | Recent Iro             |                          |                    | ed Soils (Ct      | . —                        | phic Position (D2)                      |
| I —  | oosits (B5)                      | I (D7)               | Thin Muck              |                          |                    |                   | FAC-Neu                    | tral Test (D5)                          |
| ı —  | on Visible on Aerial             |                      |                        |                          | ` '                |                   |                            |   |
|  | / Vegetated Concav               | е Ѕипасе (Ва         | B) Other (Exp          | olain in Re              | emarks)            |                   |                            |   |
| Field Obser                                    |                                  | / NI-                | Depth (in              | -1 \.                    |                    |                   |                            |   |
| Surface Wat                                    |                                  |                      |                        |                          |                    |                   |                            |   |
| Water Table                                    |                                  |                      | Depth (in              |                          |                    |                   |                            |   |
| Saturation P                                   | oillary fringe)                  |                      | Depth (inc             |                          |                    |                   |                            | sent? Yes No                            |
| Describe Re                                    | corded Data (strean              | n gauge, moni        | itoring well, aerial p | onotos, pi               | revious ins        | spections),       | ır avalladie:              |   |
| Remarks:                                       |                                  |                      |                        |                          |                    |                   |                            |   |
| Wetland  | l hydrology                      | aheent               |                        |                          |                    |                   |                            |   |
| vvetiano                                       | l hydrology                      | ลมจะแเ.              |                        |                          |                    |                   |                            |   |
|  |                                  |                      |                        |                          |                    |                   |                            |   |

| Project/Site: AEP Fostoria to Lima                               | City               | /County: Bluffton    | ı/Allen  | Sampling Date: 2022-07-04                          |
|--|--------------------|----------------------|--|--|
| Applicant/Owner: AEP   |                    |                      | State: Ohio  | Sampling Point: 1-SP-016                           |
| Investigator(s): Beth Hollinden, Chris Davisson                  | Sec                | tion, Township, Ra   | nge: OH01 T2S R8E S                                | N16  |
| Landform (hillslope, terrace, etc.): Flat                        |                    | Local relief         | (concave, convex, none):                           | None   |
| Slope (%): 0 Lat: 40.871965                                      | Lon                | g: <u>-83.956059</u> |  | Datum: WGS 84                                      |
| Soil Map Unit Name: PmA  |                    |                      | NWI classifica                                     | ation: R4SBC                                       |
| Are climatic / hydrologic conditions on the site typical for the | nis time of year?  | Yes No _             | (If no, explain in Ro                              | emarks.)   |
| Are Vegetation, Soil, or Hydrology                               | significantly dist | urbed? Are           | 'Normal Circumstances" p                           | resent? Yes No                                     |
| Are Vegetation, Soil, or Hydrology                               | naturally proble   | matic? (If ne        | eeded, explain any answer                          | rs in Remarks.)                                    |
| SUMMARY OF FINDINGS - Attach site map                            | showing sa         | mpling point l       | ocations, transects                                | , important features, etc.                         |
| Hydrophytic Vegetation Present? Yes                              | No                 |                      |  |  |
| Hydric Soil Present? Yes   |                    | Is the Sampled       |  |  |
| Wetland Hydrology Present? Yes                                   | No                 | within a Wetlar      | nd? Yes  | No   |
| Remarks:   |                    |                      |  |  |
| Not a wetland. Upland swale in ag                                | ricultural f       | ield.                |  |  |
| \  |                    |                      |  |  |
| VEGETATION – Use scientific names of plants                      |                    |                      | I  | -b 4   |
| Tree Stratum (Plot size:30 ft r)                                 |                    | ominant Indicator    | Number of Dominant Sp                              |  |
| 1  |                    |                      | That Are OBL, FACW, of                             |  |
| 2  |                    |                      | Total Number of Domina                             | ant  |
| 3  |                    |                      | Species Across All Strat                           | 0  |
| 4  |                    |                      | Percent of Dominant Sp                             | pecies   |
| 5  |                    |                      | That Are OBL, FACW, o                              | or FAC: <u>50</u> (A/B)                            |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                      | =T                 | otal Cover           | Prevalence Index work                              | rsheet:  |
| 1  |                    |                      | Total % Cover of:                                  |  |
| 2  |                    |                      |  | x 1 = 50   |
| 3  |                    |                      |  | x 2 = 0  |
| 4  |                    |                      |  | x = 0<br>x = 200                                   |
| 5  |                    |                      | FACU species 50 UPL species 0                      |  |
| Herb Stratum (Plot size: 5 ft r )                                | =                  | otal Cover           | Column Totals: 100                                 | (A) 250 (B)  |
| 1. Carex lurida  | 50                 | ✓ OBL                |  | (3)  |
| 2. Festuca rubra   | _ 50               | ✓ FACU               | Prevalence Index                                   |  |
| 3  |                    |                      | Hydrophytic Vegetatio                              |  |
| 4  |                    |                      | 1 - Rapid Test for H                               |  |
| 5  |                    |                      | 2 - Dominance Test 3 - Prevalence Inde             |  |
| 6  |                    |                      |  | daptations <sup>1</sup> (Provide supporting        |
| 7  |                    |                      | data in Remarks                                    | or on a separate sheet)                            |
| 9.   |                    |                      | Problematic Hydror                                 | ohytic Vegetation¹ (Explain)                       |
| 10   |                    |                      | 1  |  |
|  | 100% = T           | otal Cover           | Indicators of hydric soil be present, unless distu | and wetland hydrology must<br>rbed or problematic. |
| Woody Vine Stratum (Plot size: 30 ft r )                         |                    |                      |  |  |
| 1  |                    |                      | Hydrophytic<br>Vegetation                          |  |
| 2  | — ——— —<br>= T     |                      | Present? Yes                                       | s No   |
| Remarks: (Include photo numbers here or on a separate            |                    | otal Oovel           |  |  |
| Hydrophytic vegetation absent.                                   |                    |                      |  |  |
|  |                    |                      |  |  |
| 1  |                    |                      |  |  |

| Profile Desc  | ription: (Describe                         | to the depth         | needed to docur        | nent the               | indicator          | or confirm        | n the absence of in   | dicators.)                                      |
|---|--|----------------------|------------------------|------------------------|--------------------|-------------------|-----------------------|---|
| Depth   | Matrix                                     |                      |                        | x Feature              |                    |                   |                       |   |
| (inches)  | Color (moist)                              | %                    | Color (moist)          | %                      | _Type <sup>1</sup> | _Loc <sup>2</sup> |                       | Remarks   |
| 0 - 20  | 10YR 4/2                                   | _ <u>95</u> <u>1</u> | 10YR 5/6               | <u> 5</u>              | _ <u>C</u>         | <u>M</u>          | Silty Clay            |   |
| -   |  |                      |                        |                        |                    |                   |                       |   |
| -   |  |                      |                        |                        |                    |                   |                       |   |
| _   |  |                      |                        |                        |                    |                   |                       |   |
|   |  |                      |                        |                        |                    |                   |                       |   |
|   |  |                      |                        |                        |                    |                   |                       |   |
| <del></del>   |  |                      |                        |                        |                    |                   |                       |   |
|   |  |                      |                        |                        |                    |                   |                       |   |
|   | oncentration, D=De                         | pletion, RM=R        | Reduced Matrix, MS     | S=Maske                | d Sand Gr          | ains.             |                       | Pore Lining, M=Matrix.                          |
| Hydric Soil   |  |                      |                        |                        |                    |                   |                       | roblematic Hydric Soils <sup>3</sup> :          |
| Histosol  | . ,  |                      |                        | -                      | atrix (S4)         |                   | _                     | e Redox (A16)                                   |
| ı —   | oipedon (A2)                               |                      |                        | Redox (St<br>Matrix (9 | -                  |                   | Dark Surfac           | e (57)<br>nese Masses (F12)                     |
| Black Histic (A3) Stripped Matrix (S6)<br>Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)          |  |                      |                        |                        |                    |                   | w Dark Surface (TF12) |   |
| Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)<br>Stratified Layers (A5) Loamy Gleyed Matrix (F2) |  |                      |                        |                        |                    |                   |                       | ain in Remarks)                                 |
| 2 cm Mu   | ıck (A10)                                  |                      | Deplete                | d Matrix (             | (F3)               |                   |                       |   |
| ı —   | d Below Dark Surfac                        | ce (A11)             | _                      | Dark Surfa             |                    |                   | 2                     |   |
| _   | ark Surface (A12)                          |                      |                        |                        | urface (F7         | )                 |                       | drophytic vegetation and                        |
|   | lucky Mineral (S1)<br>icky Peat or Peat (S | (3)                  | Redox I                | Depressio              | ons (Fo)           |                   |                       | rology must be present,<br>rbed or problematic. |
|   | Layer (if observed)                        | -                    |                        |                        |                    |                   | diliess dista         | roce of problematic.                            |
|   |  |                      |                        |                        |                    |                   |                       |   |
|   | ches):                                     |                      | _                      |                        |                    |                   | Hydric Soil Pres      | ent? Yes No                                     |
| Remarks:  |  |                      |                        |                        |                    |                   |                       |   |
| Hydric  | soil present.                              |                      |                        |                        |                    |                   |                       |   |
|   |  |                      |                        |                        |                    |                   |                       |   |
|   |  |                      |                        |                        |                    |                   |                       |   |
| HYDROLO   | GY   |                      |                        |                        |                    |                   |                       |   |
|   | drology Indicators                         | :                    |                        |                        |                    |                   |                       |   |
| 1   | cators (minimum of                         |                      | d: check all that ap   | (vla                   |                    |                   | Secondary Inc         | dicators (minimum of two required)              |
|   | Water (A1)                                 |                      | Water-Sta              |                        | /es (B9)           |                   |                       | Soil Cracks (B6)                                |
| _   | ater Table (A2)                            |                      | Aquatic Fa             |                        | , ,                |                   |                       | Patterns (B10)                                  |
| Saturation  | , ,  |                      | True Aqua              | ,                      | ,                  |                   |                       | on Water Table (C2)                             |
| Water M   | larks (B1)                                 |                      | Hydrogen               | Sulfide O              | dor (C1)           |                   | Crayfish I            | Burrows (C8)                                    |
| Sedimer   | nt Deposits (B2)                           |                      | Oxidized F             | Rhizosphe              | eres on Liv        | ing Roots         | (C3) Saturation       | n Visible on Aerial Imagery (C9)                |
| Drift Dep   | posits (B3)                                |                      | Presence               | of Reduce              | ed Iron (C         | 4)                | Stunted o             | r Stressed Plants (D1)                          |
| -   | at or Crust (B4)                           |                      | Recent Iro             | n Reduct               | ion in Tille       | d Soils (Ce       | . —                   | hic Position (D2)                               |
| I —   | posits (B5)                                |                      | Thin Muck              |                        |                    |                   | FAC-Neu               | tral Test (D5)                                  |
| ı —   | on Visible on Aerial                       |                      |                        |                        | , ,                |                   |                       |   |
|   | / Vegetated Concav                         | e Surface (B8        | B) Other (Exp          | plain in Re            | emarks)            |                   |                       |   |
| Field Obser   |  | / NI-                | V 5                    | -I \                   |                    |                   |                       |   |
| Surface Wat   |  |                      | Depth (in              |                        |                    |                   |                       |   |
| Water Table   |  |                      | Depth (in              |                        |                    |                   |                       |   |
| Saturation P (includes car  |  | res No               | Depth (in              | ches):                 |                    | Weti              | and Hydrology Pre     | sent? Yes No                                    |
|   | corded Data (stream                        | n gauge, mon         | itoring well, aerial į | photos, pi             | revious ins        | spections),       | if available:         |   |
|   |  |                      |                        |                        |                    |                   |                       |   |
| Remarks:  |  |                      |                        |                        |                    |                   |                       |   |
| Wetland   | l hydrology                                | absent.              |                        |                        |                    |                   |                       |   |
|   | ., 9 )                                     |                      |                        |                        |                    |                   |                       |   |
|   |  |                      |                        |                        |                    |                   |                       |   |

| Project/Site: AEP Fostoria to Lima                                | C               | city/Co | ounty:      | Bluffton    | Sampling Date: 2022-07-04                        |   |
|---|-----------------|---------|-------------|-------------|--|---|
| Applicant/Owner: AEP  |                 |         |             |             | State: Ohio                                      | Sampling Point: 1-SP-017                      |
| Investigator(s): Beth Hollinden, Chris Davisson                   | s               | Sectio  | n, Tov      | wnship, Rai | <sub>nge:</sub> OH01 T2S R8E S                   | SN17  |
| Landform (hillslope, terrace, etc.): Flat                         |                 |         | L           | ocal relief | (concave, convex, none):                         | None  |
| Slope (%): 0 Lat: 40.868248                                       | L               | .ong:   | -83.        | 9625        |  | Datum: WGS 84                                 |
| Soil Map Unit Name: PmA   |                 |         |             |             | NWI classific                                    | ation: R4SBC                                  |
| Are climatic / hydrologic conditions on the site typical for this | s time of yea   | r? Ye   | es <b>'</b> | No _        | (If no, explain in R                             | emarks.)                                      |
| Are Vegetation, Soil, or Hydrology s                              | significantly d | listurb | ed?         | Are "       | 'Normal Circumstances" p                         | present? Yes No                               |
| Are Vegetation, Soil, or Hydrology r                              | naturally prob  | olema   | tic?        | (If ne      | eded, explain any answe                          | rs in Remarks.)                               |
| SUMMARY OF FINDINGS - Attach site map                             | showing         | sam     | pling       | g point le  | ocations, transects                              | , important features, etc                     |
| Hydrophytic Vegetation Present? Yes N                             | lo              |         |             |             |  |   |
| Hydric Soil Present? Yes N  | lo              |         |             | e Sampled   |  | .,  |
| Wetland Hydrology Present? Yes N                                  | lo              |         | withi       | n a Wetlar  | nd? Yes  | No  |
| Remarks:  |                 |         |             |             |  |   |
| Not a wetland. Upland swale in agr                                | icultura        | l fie   | ld.         |             |  |   |
| VECETATION Lies scientific names of plants                        |                 |         |             |             |  |   |
| <b>VEGETATION</b> – Use scientific names of plants.               |                 | Dom     | inant       | Indicator   | Dominance Test work                              | shoot   |
| Tree Stratum (Plot size: 30 ft r )                                | % Cover         |         |             |             | Number of Dominant S                             |   |
| 1   |                 |         |             |             | That Are OBL, FACW,                              |   |
| 2   |                 |         |             |             | Total Number of Domin                            |   |
| 3   |                 |         |             |             | Species Across All Stra                          | ta: <u>1</u> (B)                              |
| 4.       5.   |                 |         |             |             | Percent of Dominant Sp<br>That Are OBL, FACW, of |   |
|   |                 |         | al Cov      | er          |  |   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                 |         |             |             | Prevalence Index wor                             |   |
| 1   |                 |         |             |             | Total % Cover of: OBL species                    | $\frac{\text{Multiply by:}}{\text{x 1 = } 0}$ |
| 2<br>3  |                 |         |             |             |  | x 2 = 0                                       |
| 4   |                 |         |             |             | FAC species 0                                    | x 3 = 0                                       |
| 5   |                 |         |             |             |  | x 4 = 400                                     |
| Herb Stratum (Plot size: 5 ft r )                                 | =               | = Tota  | al Cov      | er          | UPL species 0                                    | x 5 = 0                                       |
| 1. Festuca rubra  | 90              | v       | /           | FACU        | Column Totals: 100                               | (A) <u>400</u> (B)                            |
| Cirsium arvense   | 10              |         |             | FACU        | Prevalence Index                                 | = B/A = 4.00                                  |
| 3   |                 |         |             |             | Hydrophytic Vegetation                           |   |
| 4   |                 |         |             |             | 1 - Rapid Test for H                             |   |
| 5   |                 |         |             |             | 2 - Dominance Tes<br>3 - Prevalence Inde         |   |
| 6   |                 |         |             |             | 1  | Adaptations <sup>1</sup> (Provide supporting  |
| 7<br>8  |                 |         |             |             | data in Remarks                                  | s or on a separate sheet)                     |
| 9   |                 |         |             |             | Problematic Hydro                                | phytic Vegetation <sup>1</sup> (Explain)      |
| 10  |                 |         |             |             | <sup>1</sup> Indicators of hydric soi            | l and wetland hydrology must                  |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 100%_           | = Tota  | al Cov      | er          | be present, unless distu                         |   |
| 1   |                 |         |             |             | Hydrophytic                                      |   |
| 2   |                 |         |             |             | Vegetation                                       | <b>V</b>                                      |
|   |                 | = Tota  | al Cov      | er          | Present? Yes                                     | s No  |
| Remarks: (Include photo numbers here or on a separate             | sheet.)         |         |             |             |  |   |
| Hydrophytic vegetation absent.                                    |                 |         |             |             |  |   |
|   |                 |         |             |             |  |   |

| Profile Desc  | ription: (Describe                     | to the depth   | needed to docu       | ment the i   | ndicator          | or confirn        | n the absence of i       | ndicators.)                             |
|---|--|----------------|----------------------|--------------|-------------------|-------------------|--------------------------|---|
| Depth   | Matrix                                 |                |                      | ox Feature   | s                 |                   |                          |   |
| (inches)  | Color (moist)                          | %              | Color (moist)        | %            | Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                  | Remarks                                 |
| 0 - 20  | 10YR 6/3                               | _ <u>100</u>   |                      |              |                   |                   | Silty Clay               |   |
|   |  |                |                      |              |                   |                   |                          |   |
| -   |  |                |                      |              |                   |                   |                          |   |
|   |  |                |                      |              |                   |                   |                          |   |
|   |  |                |                      |              |                   |                   |                          |   |
|   |  |                |                      |              |                   |                   |                          |   |
|   |  |                |                      |              |                   |                   |                          |   |
|   |  |                |                      |              |                   |                   |                          |   |
| <sup>1</sup> Type: C=Co   | oncentration, D=De                     | pletion, RM=R  | Reduced Matrix, N    | IS=Masked    | Sand Gra          | ains.             | <sup>2</sup> Location: P | L=Pore Lining, M=Matrix.                |
| Hydric Soil I   | Indicators:                            |                |                      |              |                   |                   | Indicators for           | Problematic Hydric Soils <sup>3</sup> : |
| Histosol  | (A1)                                   |                | Sandy                | Gleyed Ma    | atrix (S4)        |                   | Coast Prai               | irie Redox (A16)                        |
|   | oipedon (A2)                           |                |                      | Redox (S5    |                   |                   | Dark Surfa               | • •                                     |
| ı —   | Black Histic (A3) Stripped Matrix (S6) |                |                      |              |                   |                   |                          | anese Masses (F12)                      |
| Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)<br>Stratified Layers (A5) Loamy Gleyed Matrix (F2) |  |                |                      |              |                   |                   | ow Dark Surface (TF12)   |   |
|   | ick (A10)                              |                | _ ′                  | ed Matrix (l | , ,               |                   | Other (Exp               | plain in Remarks)                       |
| _   | d Below Dark Surfac                    | ce (A11)       |                      | Dark Surfa   | -                 |                   |                          |   |
|   | ark Surface (A12)                      | 50 (****)      | _                    | ed Dark Su   |                   | )                 | 3Indicators of I         | hydrophytic vegetation and              |
| _   | lucky Mineral (S1)                     |                |                      | Depression   | , ,               |                   |                          | drology must be present,                |
| 5 cm Mu   | icky Peat or Peat (S                   | 33)            |                      |              |                   |                   | unless dist              | turbed or problematic.                  |
| Restrictive L   | _ayer (if observed)                    | ):             |                      |              |                   |                   |                          |   |
| Type:   |  |                | _                    |              |                   |                   | Undria Cail Dua          | No. V                                   |
| Depth (inc  | ches):                                 |                |                      |              |                   |                   | Hydric Soil Pre          | esent? Yes No                           |
| Remarks:  |  |                |                      |              |                   |                   |                          |   |
| Lydric  | coil abcont                            |                |                      |              |                   |                   |                          |   |
| ligances  | soil absent.                           |                |                      |              |                   |                   |                          |   |
|   |  |                |                      |              |                   |                   |                          |   |
|   |  |                |                      |              |                   |                   |                          |   |
| HYDROLO   | GY                                     |                |                      |              |                   |                   |                          |   |
| Wetland Hyd   | drology Indicators                     | :              |                      |              |                   |                   |                          |   |
| Primary Indic   | cators (minimum of                     | one is require | d; check all that a  | pply)        |                   |                   | Secondary I              | ndicators (minimum of two required)     |
| Surface   | Water (A1)                             |                |                      | ained Leav   | ` '               |                   | Surface                  | Soil Cracks (B6)                        |
| High Wa   | iter Table (A2)                        |                | Aquatic F            | auna (B13    | )                 |                   | Drainag                  | e Patterns (B10)                        |
| Saturation  | on (A3)                                |                | True Aqu             | atic Plants  | (B14)             |                   | Dry-Sea                  | ason Water Table (C2)                   |
| Water M   | arks (B1)                              |                | Hydroger             | Sulfide O    | dor (C1)          |                   | Crayfish                 | n Burrows (C8)                          |
| Sedimen   | nt Deposits (B2)                       |                |                      | Rhizosphe    |                   | -                 | (C3) Saturati            | on Visible on Aerial Imagery (C9)       |
| Drift Dep   | oosits (B3)                            |                | _                    | of Reduce    | ,                 | ,                 | _                        | or Stressed Plants (D1)                 |
|   | at or Crust (B4)                       |                | _                    | on Reducti   |                   | d Soils (C        | <i>-</i>                 | rphic Position (D2)                     |
| 1 —   | oosits (B5)                            |                | Thin Muc             | ,            |                   |                   | FAC-Ne                   | eutral Test (D5)                        |
| I —   | on Visible on Aerial                   |                |                      |              |                   |                   |                          |   |
|   | Vegetated Concav                       | e Surface (B8  | B) Other (Ex         | plain in Re  | marks)            |                   |                          |   |
| Field Observ  |  |                | <b>V</b>             |              |                   |                   |                          |   |
| Surface Water   |  |                | Depth (ir            |              |                   |                   |                          |   |
| Water Table   |  |                | Depth (in            |              |                   |                   |                          |   |
| Saturation Pr   |  | Yes No         | Depth (ir            | nches):      |                   | _   Wetl          | and Hydrology Pr         | resent? Yes No                          |
| (includes cap<br>Describe Red   | corded Data (stream                    | n gauge, mon   | itoring well, aerial | photos, pr   | evious ins        | pections),        | if available:            |   |
|   |  |                |                      |              |                   |                   |                          |   |
| Remarks:  |  |                |                      |              |                   |                   |                          |   |
| Wetland   | l hydrology                            | absent.        |                      |              |                   |                   |                          |   |
|   | ,                                      |                |                      |              |                   |                   |                          |   |
|   |  |                |                      |              |                   |                   |                          |   |

| Project/Site: AEP Fostoria to Lima  | C             | City/Co                   | unty:  | Bluffton       | Sampling Date: 2022-07-04  |   |  |  |
|---|---------------|---------------------------|--------|----------------|--|---|--|--|
| Applicant/Owner: AEP  |               |                           |        |                | State: Ohio  | Sampling Point: 1-SP-018                            |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson   | s             | Section                   | n, Tov | vnship, Rar    | nge: OH01 T2S R8E S  | 5N17  |  |  |
| Landform (hillslope, terrace, etc.): Hillslope  |               |                           | L      | .ocal relief ( | (concave, convex, none):   | Convex  |  |  |
| Slope (%): 1 Lat: 40.865639   | L             | ong: _                    | -83.   | 966475         |  | Datum: WGS 84                                       |  |  |
| Soil Map Unit Name: PmA   |               | NWI classification: R4SBC |        |                |  |   |  |  |
| Are climatic / hydrologic conditions on the site typical for this   |               |                           |        |                |  |   |  |  |
| Are Vegetation $\underline{\hspace{1cm} \hspace{1cm} 1c$ | gnificantly d | listurb                   | ed?    | Are "          | Normal Circumstances" p  | resent? Yes No                                      |  |  |
| Are Vegetation, Soil, or Hydrology na   |               |                           |        |                | eded, explain any answei   |   |  |  |
| SUMMARY OF FINDINGS - Attach site map s   | showing       | samı                      | pling  | g point k      | ocations, transects  | , important features, etc.                          |  |  |
| Hydrophytic Vegetation Present? Yes No  |               |                           |        |                |  |   |  |  |
| Hydric Soil Present? Yes No   |               | - 1                       |        | e Sampled      |  |   |  |  |
| Wetland Hydrology Present? Yes No   | ·             |                           | withi  | in a Wetlan    | id? Yes  | No  |  |  |
| Remarks:  |               |                           |        |                |  |   |  |  |
| Not a wetland. Upland swale in agri   | cultura       | I fie                     | ld.    |                |  |   |  |  |
| VEGETATION – Use scientific names of plants.  |               |                           |        |                |  |   |  |  |
|   |               |                           |        | Indicator      | Dominance Test works   | sheet:  |  |  |
| Tree Stratum (Plot size: 30 ft r ) 1.   | % Cover       |                           |        | Status         | Number of Dominant Sp<br>That Are OBL, FACW, of                    |   |  |  |
| 2.  |               |                           |        |                | Total Number of Domina   |   |  |  |
| 3   |               |                           |        |                | Species Across All Stra  | _   |  |  |
| 4   |               |                           |        |                | Percent of Dominant Sp   | pecies  |  |  |
| 5   |               |                           |        |                | That Are OBL, FACW, o  |   |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )   | =             | = rota                    | I Cov  | er             | Prevalence Index work  | ksheet:   |  |  |
| 1   |               |                           |        |                | Total % Cover of:  |   |  |  |
| 2   |               |                           |        |                |  | x 1 = 0   |  |  |
| 3   |               |                           |        |                | FACW species 35  |   |  |  |
| 4   |               |                           |        |                | FAC species 25<br>FACU species 40                                  | x 3 = <u>75</u>                                     |  |  |
| 5   |               |                           |        |                | UPL species 0  | $x = \frac{0}{0}$                                   |  |  |
| Herb Stratum (Plot size: 5 ft r )   | =             | = rota                    |        |                | Column Totals: 100   | (A) 305 (B)   |  |  |
| 1. Festuca rubra  | 40            |                           | ,<br>— | FACU           |  | (-,   |  |  |
| Phalaris arundinacea  | 35            |                           | _      | FACW           | Prevalence Index   | = B/A = <u>3.05</u>                                 |  |  |
| 3. Toxicodendron radicans   | 25            |                           |        | FAC            | Hydrophytic Vegetation   |   |  |  |
|   |               |                           |        |                | '  | lydrophytic Vegetation                              |  |  |
| 5   |               |                           |        |                | 2 - Dominance Tes  |   |  |  |
| 6   |               |                           |        |                | 3 - Prevalence Inde  | ex is \$3.0° Adaptations¹ (Provide supporting       |  |  |
| 7   |               |                           |        |                | data in Remarks  | s or on a separate sheet)                           |  |  |
| 8<br>9  |               |                           |        |                | Problematic Hydrop   | ohytic Vegetation¹ (Explain)                        |  |  |
| 10  |               |                           |        |                |  |   |  |  |
|   | 100% =        | = Tota                    | l Cov  | er             | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu | and wetland hydrology must<br>irbed or problematic. |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )  1   |               |                           |        |                | II. J  | -   |  |  |
| 2.  |               |                           |        |                | Hydrophytic Vegetation   |   |  |  |
|   |               | <br>= Tota                | I Cov  | er             | Present? Yes   | No  |  |  |
| Remarks: (Include photo numbers here or on a separate s   |               |                           |        |                | <u> </u>   |   |  |  |
| Hydrophytic vegetation present.   |               |                           |        |                |  |   |  |  |
|   |               |                           |        |                |  |   |  |  |

| Profile Desc   | ription: (Describe                          | to the depth    | needed to docur       | nent the i               | indicator o       | or confirm          | the absence of   | indicators.)   |  |  |  |
|--|---|-----------------|-----------------------|--------------------------|-------------------|---------------------|--|--|--|--|--|
| Depth  | Matrix                                      |                 |                       | x Feature                | s                 |                     |  |  |  |  |  |
| (inches)   | Color (moist)                               | %               | Color (moist)         | %                        | Type <sup>1</sup> | _Loc <sup>2</sup> _ |  | Remarks  |  |  |  |
| 0 - 20   | 10YR 6/3                                    | _ <u>100</u> _  |                       |                          |                   |                     | Silty Clay _   |  |  |  |  |
| -  |   |                 |                       |                          |                   |                     |  |  |  |  |  |
| -  |   |                 |                       |                          |                   |                     |  |  |  |  |  |
| _  |   |                 |                       |                          |                   |                     |  |  |  |  |  |
|  |   |                 |                       |                          |                   |                     |  |  |  |  |  |
|  |   |                 |                       |                          |                   |                     |  |  |  |  |  |
|  |   |                 |                       |                          |                   |                     |  |  |  |  |  |
|  |   |                 |                       |                          |                   |                     |  |  |  |  |  |
| ¹Type: C=Ce  | oncentration, D=Dep<br>Indicators:          | oletion, RM=R   | educed Matrix, MS     | S=Masked                 | d Sand Gra        | ains.               |  | PL=Pore Lining, M=Matrix. r Problematic Hydric Soils³:           |  |  |  |
| Histosol   | . ,   |                 |                       | Gleyed Ma                |                   |                     | _  | airie Redox (A16)  |  |  |  |
| ı —  | oipedon (A2)                                |                 |                       | Redox (S5                |                   |                     | Dark Surf  |  |  |  |  |
| ı —  | stic (A3)                                   |                 |                       | d Matrix (S<br>Mucky Mir | ,                 |                     | Iron-Manganese Masses (F12) Very Shallow Dark Surface (TF12) |  |  |  |  |
| Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) |   |                 |                       |                          |                   |                     | plain in Remarks)  |  |  |  |  |
| _  | ick (A10)                                   |                 |                       | d Matrix (               |                   |                     |  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                          |  |  |  |
| Depleted   | d Below Dark Surfac                         | ce (A11)        | Redox [               | Dark Surfa               | ace (F6)          |                     |  |  |  |  |  |
| _  | ark Surface (A12)                           |                 |                       |                          | ırface (F7)       |                     |  | hydrophytic vegetation and                                       |  |  |  |
| 1 – 1  | Mucky Mineral (S1)                          | 2)              | Redox [               | Depressio                | ns (F8)           |                     |  | ydrology must be present,  |  |  |  |
|  | icky Peat or Peat (S<br>Layer (if observed) |                 |                       |                          |                   |                     | unless dis   | sturbed or problematic.  |  |  |  |
| Type:  | Layer (ii observed)                         |                 |                       |                          |                   |                     |  |  |  |  |  |
|  | ches):                                      |                 | _                     |                          |                   |                     | Hydric Soil Pr   | esent? Yes No  |  |  |  |
| Remarks:   |   |                 | <del>_</del>          |                          |                   |                     |  |  |  |  |  |
| Hydric   | soil absent.                                |                 |                       |                          |                   |                     |  |  |  |  |  |
| HYDROLO  | GY  |                 |                       |                          |                   |                     |  |  |  |  |  |
| Wetland Hy   | drology Indicators                          | :               |                       |                          |                   |                     |  |  |  |  |  |
| Primary India  | cators (minimum of                          | one is required | d; check all that ap  | ply)                     |                   |                     | Secondary  | Indicators (minimum of two required)                             |  |  |  |
| I —  | Water (A1)                                  |                 | Water-Sta             |                          | , ,               |                     |  | e Soil Cracks (B6)   |  |  |  |
| ı —  | ater Table (A2)                             |                 | Aquatic Fa            | ,                        | ,                 |                     |  | ge Patterns (B10)  |  |  |  |
| Saturation   |   |                 | True Aqua             |                          |                   |                     |  | eason Water Table (C2)   |  |  |  |
| ı —  | larks (B1)                                  |                 | Hydrogen              |                          | , ,               | Daata               | _ ,  | th Burrows (C8)  |  |  |  |
|  | nt Deposits (B2)<br>posits (B3)             |                 | Oxidized F Presence   |                          |                   |                     |  | tion Visible on Aerial Imagery (C9)<br>d or Stressed Plants (D1) |  |  |  |
| —  | at or Crust (B4)                            |                 | Recent Iro            |                          | ,                 | ,                   |  | orphic Position (D2)   |  |  |  |
|  | posits (B5)                                 |                 | Thin Muck             |                          |                   | . 00.10 (00         | . —  | eutral Test (D5)   |  |  |  |
| I — .  | on Visible on Aerial                        | Imagery (B7)    |                       | ,                        |                   |                     |  |  |  |  |  |
| ı —  | Vegetated Concav                            |                 |                       |                          |                   |                     |  |  |  |  |  |
| Field Obser  | vations:                                    |                 |                       |                          |                   |                     |  |  |  |  |  |
| Surface Wat  | er Present?                                 | /es No          | Depth (inc            | ches):                   |                   | _                   |  |  |  |  |  |
| Water Table  | Present?                                    | /es No          | Depth (inc            | ches):                   |                   | _                   |  |  |  |  |  |
|  |   |                 |                       |                          |                   |                     |  | resent? Yes No   |  |  |  |
| Describe Re  | corded Data (strean                         | n gauge, moni   | toring well, aerial p | photos, pr               | evious insp       | pections),          | if available:  |  |  |  |  |
| Remarks:   |   |                 |                       |                          |                   |                     |  |  |  |  |  |
| Wetland  | l hydrology                                 | ahsent          |                       |                          |                   |                     |  |  |  |  |  |
| ** Ctianic   | y ar orogy                                  | abjoiit.        |                       |                          |                   |                     |  |  |  |  |  |
|  |   |                 |                       |                          |                   |                     |  |  |  |  |  |

| Project/Site: AEP Fostoria to Lima          |                  | City/                 | County: Bluffton                | Sampling Date: 2022-07-05  |  |  |  |
|---|------------------|-----------------------|---------------------------------|--|--|--|--|
| Applicant/Owner: AEP                        |                  |                       |                                 | State: Ohio  | Sampling Point: 1-SP-019   |  |  |
| Investigator(s): Beth Hollinden, Chris      | Davisson         | Sect                  | ion, Township, Ra               | nge: OH01 T2S R7E S  | N25  |  |  |
| Landform (hillslope, terrace, etc.): Flat   |                  |                       | Local relief                    | (concave, convex, none):   | None   |  |  |
| Slope (%): 0 Lat: 40.84242                  | 26               | Long                  | <sub>g:</sub> <u>-84.002647</u> |  | Datum: WGS 84  |  |  |
| Soil Map Unit Name: PmA                     |                  |                       |                                 | NWI classific  | ation: PSS1C   |  |  |
| Are climatic / hydrologic conditions on the | site typical for | this time of year?    |                                 |  |  |  |  |
| Are Vegetation, Soil, or Hy                 | drology          | _ significantly distu | ırbed? Are "                    | 'Normal Circumstances" p   | oresent? Yes No  |  |  |
| Are Vegetation, Soil, or Hy                 | drology          | _ naturally problem   | natic? (If ne                   | eeded, explain any answe   | rs in Remarks.)  |  |  |
| SUMMARY OF FINDINGS - Atta                  | ach site ma      | ap showing sa         | mpling point le                 | ocations, transects  | , important features, etc.   |  |  |
| Hydrophytic Vegetation Present?             | Yes              | No                    |                                 |  |  |  |  |
| Hydric Soil Present?                        | Yes              | No                    | Is the Sampled                  |  | 🗸  |  |  |
| Wetland Hydrology Present?                  | Yes              | No                    | within a Wetlar                 | 1d? Yes  | No   |  |  |
| Remarks:                                    |                  |                       |                                 |  |  |  |  |
| Not a wetland. Agricultur                   | al field.        |                       |                                 |  |  |  |  |
| VEGETATION – Use scientific na              | mes of plar      | nts.                  |                                 |  |  |  |  |
| Tree Stratum (Plot size:30 ft r             | )                |                       | minant Indicator ecies? Status  | Dominance Test work  | sheet:   |  |  |
| 1   |                  |                       |                                 | Number of Dominant Sp<br>That Are OBL, FACW, of                    |  |  |  |
| 2   |                  |                       |                                 |  | ( ,  |  |  |
| 3.  |                  |                       |                                 | Total Number of Domini<br>Species Across All Stra                  | •  |  |  |
| 4   |                  |                       |                                 | Percent of Dominant Sp   | necies   |  |  |
| 5   |                  |                       |                                 | That Are OBL, FACW, o  |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 f      | tr               | = To                  | otal Cover                      | Prevalence Index worl  | ksheet:  |  |  |
| 1   |                  |                       |                                 | Total % Cover of:  | Multiply by:   |  |  |
| 2   |                  |                       |                                 |  | x 1 = 0  |  |  |
| 3   |                  |                       |                                 |  | x 2 = 0  |  |  |
| 4   |                  |                       |                                 |  | x 3 = 0  |  |  |
| 5   |                  |                       |                                 |  | x 4 = 0  |  |  |
| Herb Stratum (Plot size: 5 ft r             | )                | = To                  | otal Cover                      |  | x = 0  |  |  |
| 1. Glycine max                              |                  | 30                    | ~                               | Column Totals: 0   | (A) <u>0</u> (B)   |  |  |
| 2.  |                  |                       |                                 | Prevalence Index   | = B/A = <u>NaN</u>   |  |  |
| 3   |                  |                       |                                 | Hydrophytic Vegetation   |  |  |  |
| 4   |                  |                       |                                 | 1 - Rapid Test for H   |  |  |  |
| 5   |                  |                       |                                 | 2 - Dominance Tes  |  |  |  |
| 6   |                  |                       |                                 | 3 - Prevalence Inde  |  |  |  |
| 7   |                  |                       |                                 | data in Remarks  | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |  |  |
| 8   |                  |                       |                                 | 1  | phytic Vegetation <sup>1</sup> (Explain)                               |  |  |
| 9   |                  |                       |                                 |  |  |  |  |
| 10  |                  | 000/                  | otal Cover                      | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu | l and wetland hydrology must   |  |  |
| Woody Vine Stratum (Plot size: 30 ft        |                  |                       |                                 | be present, unless distu   | inded of problematic.  |  |  |
| 1   |                  |                       |                                 | Hydrophytic  |  |  |  |
| 2   |                  |                       |                                 | Vegetation<br>Present? Yes   | s No   |  |  |
| Remarks: (Include photo numbers here        | or on a senara   |                       | otal Cover                      |  |  |  |  |
| , ,   | ·                |                       |                                 |  |  |  |  |
| Hydrophytic vegetation a                    | สมรษาน.          |                       |                                 |  |  |  |  |

| Profile Desc   | ription: (Describe                        | e to the de    | oth needed to docu     | ment the   | indicator           | or confire          | n the absence of indicators.)  |            |
|--|---|----------------|------------------------|------------|---------------------|---------------------|--|------------|
| Depth  | Matrix                                    |                | Redo                   | x Feature  | es                  |                     |  |            |
| (inches)   | Color (moist)                             | %              | Color (moist)          | %          | Type <sup>1</sup> _ | _Loc <sup>2</sup> _ | Texture Remarks  |            |
| 0-6  | 10YR 3/2                                  | _ <u>100</u> _ |                        |            |                     |                     | Silty Clay   |            |
| 6-20   | 10YR 3/2                                  | <u> 97 </u>    | 10YR 5/6               | 3          | <u> </u>            | <u>M</u>            | Silty Clay   |            |
| -  |   |                |                        |            |                     |                     |  |            |
| _  |   |                |                        |            |                     |                     |  |            |
|  |   |                |                        |            |                     |                     |  |            |
|  |   |                |                        |            |                     |                     | ·  |            |
|  |   |                |                        |            |                     |                     |  |            |
|  |   |                |                        |            |                     |                     |  |            |
|  |   | pletion, RM    | =Reduced Matrix, M     | S=Maske    | d Sand Gr           | ains.               | <sup>2</sup> Location: PL=Pore Lining, M=Matrix.                                   | 3          |
| Hydric Soil  |   |                |                        |            |                     |                     | Indicators for Problematic Hydric Soils  | <b>'</b> : |
| Histosol   | . ,                                       |                |                        | -          | atrix (S4)          |                     | Coast Prairie Redox (A16)  |            |
| Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6)             |   |                |                        |            |                     |                     | Dark Surface (S7) Iron-Manganese Masses (F12)                                      |            |
| Black Histic (A3) Stripped Matrix (S6)<br>Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) |   |                |                        |            |                     |                     | Very Shallow Dark Surface (TF12)   |            |
|  | Layers (A5)                               |                |                        |            | latrix (F2)         |                     | Other (Explain in Remarks)   |            |
| 2 cm Mu  | ıck (A10)                                 |                | Deplete                | d Matrix   | (F3)                |                     |  |            |
| ı — ·  | d Below Dark Surfa                        | ce (A11)       | _                      | Dark Surf  |                     |                     | 2  |            |
| _  | ark Surface (A12)                         |                |                        |            | urface (F7)         | )                   | <sup>3</sup> Indicators of hydrophytic vegetation and                              |            |
|  | lucky Mineral (S1)<br>icky Peat or Peat ( | 53)            | Redox                  | Depression | ons (F8)            |                     | wetland hydrology must be present,<br>unless disturbed or problematic.             |            |
|  | Layer (if observed                        |                |                        |            |                     |                     | uniess distarbed of problematic.   |            |
| l _  | ,   |                |                        |            |                     |                     |  |            |
|  | ches):                                    |                |                        |            |                     |                     | Hydric Soil Present? Yes No  |            |
| Remarks:   |   |                |                        |            |                     |                     |  |            |
| Hydric   | soil absent.                              |                |                        |            |                     |                     |  |            |
| HYDROLO  | GY  |                |                        |            |                     |                     |  |            |
| Wetland Hy   | drology Indicators                        | <b>3</b> :     |                        |            |                     |                     |  |            |
| Primary India  | cators (minimum of                        | one is requ    | ired; check all that a | oply)      |                     |                     | Secondary Indicators (minimum of two   | required)  |
| I —  | Water (A1)                                |                | Water-Sta              |            | , ,                 |                     | Surface Soil Cracks (B6)   |            |
| 1 — •  | iter Table (A2)                           |                | Aquatic Fa             | ,          | ,                   |                     | Drainage Patterns (B10)  |            |
| Saturation   | , ,                                       |                | True Aqua              |            | ` ,                 |                     | Dry-Season Water Table (C2)  |            |
| Water M  |   |                | Hydrogen               |            |                     | : D4-               | Crayfish Burrows (C8)  | (00)       |
| ı —  | nt Deposits (B2)<br>posits (B3)           |                | Oxidized i             |            | eres on Liv         | -                   | . , —  | y (C9)     |
| ı —  | at or Crust (B4)                          |                | Recent Iro             |            | •                   | ,                   | <ul><li>Stunted or Stressed Plants (D1)</li><li>Geomorphic Position (D2)</li></ul> |            |
| -  | oosits (B5)                               |                | Thin Much              |            |                     | a cons (c           | FAC-Neutral Test (D5)  |            |
| I — ·  | on Visible on Aeria                       | I Imagery (E   |                        |            |                     |                     |  |            |
| Sparsely   | Vegetated Conca                           | ve Surface     | (B8) Other (Ex         | plain in R | emarks)             |                     |  |            |
| Field Obser  | vations:                                  |                |                        |            |                     |                     |  |            |
| Surface Wat  | er Present?                               | Yes            | No Depth (in           | ches):     |                     | _                   |  |            |
| Water Table  |   |                | No Depth (in           |            |                     |                     |  |            |
| Saturation P   |   |                | No Depth (in           |            |                     |                     | land Hydrology Present? Yes No   |            |
| (includes cap  | oillary fringe)                           |                |                        |            |                     |                     | if available.  |            |
| Describe Re  | corded Data (strea                        | m gauge, m     | onitoring well, aerial | pnotos, p  | revious ins         | spections),         | , if available:  |            |
| Remarks:   |   |                |                        |            |                     |                     |  |            |
|  | l bydrolog:                               | proces         | .+                     |            |                     |                     |  |            |
| vvetiano   | l hydrology                               | preser         | it.                    |            |                     |                     |  |            |
|  |   |                |                        |            |                     |                     |  |            |

| Project/Site: AEP Fostoria to Lima                             | City              | y/County: Lima/All    | len  | Sampling Date: 2022-07-05                           |
|--|-------------------|-----------------------|--|---|
| Applicant/Owner: AEP   |                   |                       |  | Sampling Point: 1-SP-020                            |
| Investigator(s): Beth Hollinden, Chris Davisson                | Se                | ction, Township, Rai  | <sub>nge:</sub> OH01 T2S R7E S             | N26   |
| Landform (hillslope, terrace, etc.): Flat                      |                   | Local relief          | (concave, convex, none):                   | None  |
| Slope (%): 0 Lat: 40.832733                                    | Lor               | ng: <u>-84.017597</u> |  | Datum: WGS 84                                       |
| Soil Map Unit Name: PmA  |                   |                       | NWI classifica                             | ation: R4SBC  |
| Are climatic / hydrologic conditions on the site typical for t | his time of year? | Yes No                | (If no, explain in Re                      | emarks.)  |
| Are Vegetation, Soil, or Hydrology                             | significantly dis | turbed? Are "         | Normal Circumstances" p                    | resent? Yes No                                      |
| Are Vegetation, Soil, or Hydrology                             | naturally proble  | matic? (If ne         | eeded, explain any answer                  | rs in Remarks.)                                     |
| SUMMARY OF FINDINGS - Attach site map                          | showing sa        | ampling point le      | ocations, transects,                       | , important features, etc.                          |
| Hydrophytic Vegetation Present? Yes                            | No                |                       |  |   |
| Hydric Soil Present? Yes                                       |                   | Is the Sampled        |  | .,  |
| Wetland Hydrology Present? Yes                                 | No                | within a Wetlan       | 1d? Yes                                    | No  |
| Remarks:   |                   |                       |  |   |
| Not a wetland. Upland swale in ag                              | ricultural        | field.                |  |   |
| VEGETATION – Use scientific names of plant                     | •                 |                       |  |   |
| VEGETATION – Ose scientific frames of plant                    |                   | ominant Indicator     | Dominance Test works                       | shoot:  |
| Tree Stratum (Plot size: 30 ft r )                             |                   | pecies? Status        | Number of Dominant Sp                      |   |
| 1  |                   |                       | That Are OBL, FACW, o                      | •   |
| 2  |                   |                       | Total Number of Domina                     |   |
| 3  |                   |                       | Species Across All Strat                   | ta: <u>2</u> (B)                                    |
| 4  |                   |                       | Percent of Dominant Sp                     |   |
| 5  | =1                | Fotal Cover           | That Are OBL, FACW, o                      | or FAC: 0 (A/B)                                     |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                    |                   | Total Cover           | Prevalence Index work                      | rsheet:   |
| 1  |                   |                       | Total % Cover of:                          |   |
| 2  |                   |                       | 1  | x 1 = 0   |
| 3  |                   |                       |  | x = 0 $x = 0$ $x = 0$                               |
| 4  |                   |                       | · -  | $\times 4 = 400$                                    |
| 5  |                   | Fotal Cover           | UPL species 0                              |   |
| Herb Stratum (Plot size: 5 ft r )                              |                   |                       | Column Totals: 100                         | (A) 400 (B)   |
| 1. Festuca rubra   | _ 70              | FACU                  |  | 4.00  |
| 2. Glechoma hederacea  | _ 30              | FACU_                 | Prevalence Index                           |   |
| 3  |                   |                       | Hydrophytic Vegetatio                      |   |
| 4  |                   |                       | 1 - Rapid Test for H<br>2 - Dominance Test |   |
| 5  |                   |                       | 3 - Prevalence Inde                        |   |
| 6  |                   |                       | 4 - Morphological A                        | daptations <sup>1</sup> (Provide supporting         |
| 8  |                   |                       | data in Remarks                            | or on a separate sheet)                             |
| 9  |                   |                       | Problematic Hydrop                         | ohytic Vegetation <sup>1</sup> (Explain)            |
| 10   |                   |                       | North at an afternis as it                 | and wattened budgetons are set                      |
|  | 100% = 7          | Total Cover           | be present, unless distu                   | and wetland hydrology must<br>irbed or problematic. |
| Woody Vine Stratum (Plot size: 30 ft r )                       |                   |                       | ,  | ,   |
| 1  |                   |                       | Hydrophytic Vegetation                     |   |
| 2  |                   |                       | Present? Yes                               | s No  |
| Remarks: (Include photo numbers here or on a separate          |                   |                       | 1  |   |
| Hydrophytic vegetation absent.                                 |                   |                       |  |   |
|  |                   |                       |  |   |
|  |                   |                       |  |   |

| Profile Description: (Describe to the depth ne                                    | eeded to document the i               | ndicator or con                    | firm the absence of     | indicators.)   |
|---|---------------------------------------|------------------------------------|-------------------------|--|
| Depth Matrix  | Redox Features                        | S                                  | _                       |  |
|   | Color (moist) %                       | Type <sup>1</sup> Loc <sup>2</sup> |                         | Remarks  |
| 0 - 20 10YR 6/3 100   |                                       |                                    | Silty Clay              |  |
|   |                                       |                                    |                         |  |
| -   |                                       |                                    |                         |  |
| -   |                                       |                                    |                         |  |
|   |                                       |                                    |                         |  |
| <del></del>   |                                       |                                    |                         |  |
|   |                                       |                                    |                         |  |
|   |                                       |                                    |                         |  |
| <sup>1</sup> Type: C=Concentration, D=Depletion, RM=Red                           | luced Matrix, MS=Masked               | Sand Grains.                       |                         | L=Pore Lining, M=Matrix.                             |
| Hydric Soil Indicators:   |                                       |                                    |                         | Problematic Hydric Soils <sup>3</sup> :              |
| Histosol (A1)   | Sandy Gleyed Ma                       |                                    | _                       | irie Redox (A16)                                     |
| Histic Epipedon (A2) Black Histic (A3)  | Sandy Redox (S5<br>Stripped Matrix (S |                                    | Dark Surfa              | ace (S7)<br>ganese Masses (F12)                      |
| Hydrogen Sulfide (A4)   | eral (F1)                             |                                    | low Dark Surface (TF12) |  |
| Stratified Layers (A5)  |                                       | plain in Remarks)                  |                         |  |
| 2 cm Muck (A10)   | Depleted Matrix (F                    | =3)                                |                         |  |
| Depleted Below Dark Surface (A11)   | Redox Dark Surfa                      | ` '                                |                         |  |
| Thick Dark Surface (A12)  | Depleted Dark Su                      | , ,                                |                         | hydrophytic vegetation and                           |
| Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)                             | Redox Depression                      | ns (F8)                            |                         | ydrology must be present,<br>sturbed or problematic. |
| Restrictive Layer (if observed):  |                                       |                                    | unless dis              | sturbed or problematic.                              |
| Type:   |                                       |                                    |                         |  |
| Depth (inches):   |                                       |                                    | Hydric Soil Pre         | esent? Yes No  |
| Remarks:  | •                                     |                                    |                         |  |
| Hydric soil absent.   |                                       |                                    |                         |  |
| HYDROLOGY   |                                       |                                    |                         |  |
| Wetland Hydrology Indicators:   |                                       |                                    |                         |  |
| Primary Indicators (minimum of one is required; of                                | check all that apply)                 |                                    | Secondary               | Indicators (minimum of two required)                 |
| Surface Water (A1)  | Water-Stained Leave                   | es (B9)                            | Surface                 | e Soil Cracks (B6)                                   |
| High Water Table (A2)   | Aquatic Fauna (B13)                   | )                                  | Drainag                 | ge Patterns (B10)                                    |
| Saturation (A3)   | True Aquatic Plants                   | (B14)                              | Dry-Sea                 | ason Water Table (C2)                                |
| Water Marks (B1)  | Hydrogen Sulfide Oc                   |                                    |                         | h Burrows (C8)                                       |
| Sediment Deposits (B2)  | Oxidized Rhizospher                   |                                    |                         | ion Visible on Aerial Imagery (C9)                   |
| Drift Deposits (B3)   | Presence of Reduce                    |                                    |                         | d or Stressed Plants (D1)                            |
| Algal Mat or Crust (B4)   | Recent Iron Reduction                 |                                    |                         | orphic Position (D2)                                 |
| Iron Deposits (B5)  | Thin Muck Surface (                   | •                                  | FAC-Ne                  | eutral Test (D5)                                     |
| Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) | Gauge or Well Data                    |                                    |                         |  |
| Field Observations:   | Other (Explain in Re                  | iliaiks)                           |                         |  |
|   | Depth (inches):                       |                                    |                         |  |
| I .   | Depth (inches):                       |                                    |                         |  |
|   | Depth (inches):                       |                                    | letland Hydrology P     | resent? Yes No                                       |
| (includes capillary fringe)   |                                       |                                    |                         | 103 NO   |
| Describe Recorded Data (stream gauge, monitor                                     | ring well, aerial photos, pro         | evious inspectior                  | is), if available:      |  |
| Remarks:  |                                       |                                    |                         |  |
| Wetland hydrology absent.   |                                       |                                    |                         |  |
| wetiand nyurology absent.   |                                       |                                    |                         |  |
|   |                                       |                                    |                         |  |

| Project/Site: AEP Fostoria to Lima                                | c                | City/Co                   | ounty: Lim | ma/Alle     | Sampling [                    | Date: 2022    | <u>'-07-05</u>          |                             |          |
|---|------------------|---------------------------|------------|-------------|-------------------------------|---------------|-------------------------|-----------------------------|----------|
| Applicant/Owner: AEP  |                  |                           |            |             | State: C                      | Ohio 8        | Sampling F              | oint: 1-SP                  | -021     |
| Investigator(s): Beth Hollinden, Chris Davisson                   | 8                | Section                   | n, Townshi | nip, Rang   | ge: <u>OH01 T</u>             | 2S R7E SN     | 135                     |                             |          |
| Landform (hillslope, terrace, etc.): Flat                         |                  |                           | Local      | l relief (c | oncave, conv                  | ex, none): _  | None                    |                             |          |
| Slope (%): 0 Lat: 40.830882                                       | L                | _ong: _                   | -84.019    | 9862        |                               |               | Datum: W                | GS 84                       |          |
| Soil Map Unit Name: PmA   |                  | NWI classification: R4SBC |            |             |                               |               |                         |                             |          |
| Are climatic / hydrologic conditions on the site typical for this |                  |                           |            |             |                               |               |                         |                             |          |
| Are Vegetation, Soil, or Hydrology si                             | ignificantly d   | disturb                   | ed?        | Are "N      | ormal Circum                  | stances" pre  | esent? Ye               | es 1                        | No       |
| Are Vegetation, Soil, or Hydrologyn                               | aturally prot    | olemat                    | ic?        | (If nee     | ded, explain a                | any answers   | in Remar                | ks.)                        |          |
| SUMMARY OF FINDINGS - Attach site map                             | showing          | samı                      | pling po   | oint lo     | cations, tr                   | ansects,      | importa                 | nt feature                  | es, etc. |
| Hydrophytic Vegetation Present? Yes No                            | · ·              |                           |            |             |                               |               |                         |                             |          |
| Hydric Soil Present? Yes No                                       | o                |                           | ls the San | mpled A     |                               |               |                         |                             |          |
| Wetland Hydrology Present? Yes No                                 | <u>ر</u>         |                           | within a V | Wetland     | l?                            | Yes           | No _                    |                             |          |
| Remarks:  |                  |                           |            |             |                               |               |                         |                             |          |
| Not a wetland. Upland swale in agri                               | cultura          | I fie                     | ld.        |             |                               |               |                         |                             |          |
| <b>VEGETATION</b> – Use scientific names of plants.               |                  |                           |            |             |                               |               |                         |                             |          |
| Tree Stratum (Plot size: 30 ft r )                                | Absolute % Cover |                           | nant Indic |             | Dominance '                   | Test works    | heet:                   |                             |          |
| 1   |                  |                           |            |             | Number of Do<br>That Are OBL  |               |                         | )                           | _ (A)    |
| 2   |                  |                           |            |             | Total Number                  |               |                         |                             |          |
| 3<br>4  |                  |                           |            |             | Species Acro                  | ss All Strata | a: <u>1</u>             |                             | _ (B)    |
| 5   |                  |                           |            |             | Percent of Do<br>That Are OBI |               |                         | )                           | _ (A/B)  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |                  | = Tota                    | I Cover    | -           | Prevalence I                  | ndex works    | sheet:                  |                             |          |
| 1   |                  |                           |            |             | Total % 0                     | Cover of:     |                         | Multiply by:                | _        |
| 2.  |                  |                           |            |             | OBL species                   | 0             | x 1 =                   | <u> </u>                    | _        |
| 3   |                  |                           |            |             | FACW specie                   | es <u>0</u>   | x 2 =                   | = 0                         | _        |
| 4   |                  |                           |            |             | FAC species                   |               | x 3 =                   |                             | _        |
| 5   |                  |                           |            |             | FACU specie                   |               |                         |                             | _        |
| Hart Status (Blat size 5 ft r                                     | =                | = Tota                    | l Cover    |             | UPL species                   |               | x 5 =                   |                             | _        |
| Herb Stratum (Plot size: 5 ft r )  1 Festuca rubra                | 100              | ~                         | , FAC      | .cu         | Column Total                  | ls: 100       | (A)                     | 400                         | (B)      |
| 2   |                  |                           |            |             | Prevale                       | nce Index =   | = B/A = <u>4</u>        | .00                         | _        |
| 3.  |                  |                           |            |             | Hydrophytic                   | Vegetation    | Indicator               | rs:                         |          |
| 4   |                  |                           |            |             | 1 - Rapid                     | l Test for Hy | drophytic               | Vegetation                  |          |
| 5   |                  |                           |            |             | 2 - Domi                      |               |                         |                             |          |
| 6   |                  |                           |            |             | 3 - Preva                     |               |                         |                             |          |
| 7   |                  |                           |            |             | 4 - Morpl                     | hological Ad  | laptations <sup>1</sup> | (Provide su<br>parate sheet | pporting |
| 8   |                  |                           |            | —           | Problema                      |               |                         |                             |          |
| 9   |                  |                           |            | —           |                               | ano myaropi   | iyaa vaga               | tation (Exp.                | ,        |
| 10  | 100%             |                           |            |             | <sup>1</sup> Indicators of    |               |                         |                             | must     |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 10078            | = Tota                    | Cover      | -           | be present, u                 | nless distur  | oed or pro              | blematic.                   |          |
| 1   |                  |                           |            |             | Hydrophytic                   |               |                         |                             |          |
| 2   |                  |                           |            |             | Vegetation<br>Present?        | Yes           |                         | No                          |          |
| Remarks: (Include photo numbers here or on a separate s           |                  | - 10ta                    | l Cover    |             |                               |               |                         |                             |          |
|   | ,                |                           |            |             |                               |               |                         |                             |          |
| Hydrophytic vegetation absent.                                    |                  |                           |            |             |                               |               |                         |                             |          |

|   | inplion: (Describe   | to the depth h  | eeaea to aocu   | illient the i  | nuicator  | or confirm        | n the absence of ir   | idicators.)  |
|---|--|---|---|--|---|-------------------|---|--|
| Depth   | Matrix   |   |   | ox Feature   |   |                   |   |  |
| (inches)  | Color (moist)  |   | Color (moist)   | %  | _Type <sup>1</sup> _  | _Loc <sup>2</sup> |   | Remarks  |
| 0-20  | 10YR 6/3   | _ <u>100</u>  |   |  |   |                   | Silty Clay  |  |
|   |  |   |   |  |   |                   |   |  |
| -   |  |   |   |  |   |                   |   |  |
|   |  |   |   |  |   |                   |   |  |
|   |  |   |   |  |   |                   |   |  |
|   |  |   |   |  |   |                   |   |  |
| <u> </u>  |  |   |   |  |   |                   |   |  |
| -   |  |   |   |  |   |                   |   |  |
|   | oncentration, D=Dep  | oletion, RM=Re  | duced Matrix, N   | 1S=Masked  | Sand Gra  | ains.             |   | =Pore Lining, M=Matrix.  |
| Hydric Soil   |  |   |   | 01 114   | (0.1)   |                   |   | Problematic Hydric Soils <sup>3</sup> :  |
| Histosol  | . ,  |   |   | Gleyed Ma  |   |                   | _   | ie Redox (A16)   |
| I —   | pipedon (A2)<br>istic (A3)   |   |   | Redox (S5<br>ed Matrix (S  |   |                   | Dark Surfa  | nese Masses (F12)  |
| ı —   | en Sulfide (A4)  |   |   | Mucky Mir  | ,   |                   |   | ow Dark Surface (TF12)   |
|   | d Layers (A5)  |   |   | Gleyed Ma  |   |                   |   | ain in Remarks)  |
| 2 cm Mu   | uck (A10)  |   | Deplet  | ed Matrix (  | F3)   |                   |   |  |
|   | d Below Dark Surfac  | e (A11)   | _   | Dark Surfa   |   |                   |   |  |
| _   | ark Surface (A12)  |   |   | ed Dark Su   | , ,   |                   |   | ydrophytic vegetation and  |
|   | Mucky Mineral (S1)   | 3)  | Redox   | Depressio  | ns (F8)   |                   | -   | drology must be present,<br>urbed or problematic.  |
|   | ucky Peat or Peat (Si<br>Layer (if observed):  |   |   |  |   |                   | unless dist   | arbed or problematic.  |
| l _   | Luyer (ii oboorvou).   |   |   |  |   |                   |   |  |
|   | ches):   |   | -   |  |   |                   | Hydric Soil Pres  | sent? Yes No   |
| Remarks:  | <u> </u>   |   |   |  |   |                   |   |  |
|   |  |   |   |  |   |                   |   |  |
| Hydric  | soil absent.   |   |   |  |   |                   |   |  |
|   |  |   |   |  |   |                   |   |  |
|   |  |   |   |  |   |                   |   |  |
| LIVEROLO  | 01/  |   |   |  |   |                   |   |  |
| HYDROLO   | GY   |   |   |  |   |                   |   |  |
| Wetland Hy  | drology Indicators:  |   |   |  |   |                   |   |  |
| Wetland Hy  |  |   | check all that a  | apply)   |   |                   | Secondary Ir  | dicators (minimum of two required)   |
| Wetland Hy  | drology Indicators:<br>cators (minimum of c  |   |   |  | es (B9)   |                   |   |  |
| Wetland Hy Primary India Surface  | drology Indicators:  |   | Water-Sta   | apply)<br>ained Leav   | , ,   |                   | Surface   | dicators (minimum of two required) Soil Cracks (B6) Patterns (B10)   |
| Wetland Hy Primary India Surface  | drology Indicators:<br>cators (minimum of c<br>Water (A1)<br>ater Table (A2)   |   | Water-Sta   | ained Leav   | )   |                   | Surface<br>Drainage   | Soil Cracks (B6)   |
| Wetland Hy Primary India Surface High Wa  | drology Indicators:<br>cators (minimum of c<br>Water (A1)<br>ater Table (A2)   |   | Water-Sta   | ained Leav<br>auna (B13<br>atic Plants   | )<br>(B14)  |                   | Surface Drainage Dry-Sea  | Soil Cracks (B6)<br>Patterns (B10)   |
| Wetland Hy Primary India Surface High Wa Saturatia Water M  | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)  |   | Water-Standard Aquatic F True Aqu Hydroger  | ained Leav<br>auna (B13<br>atic Plants   | )<br>(B14)<br>dor (C1)  | ing Roots         | Surface Drainage Dry-Sea Crayfish   | Soil Cracks (B6)<br>Patterns (B10)<br>son Water Table (C2)   |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimen  | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>farks (B1)  |   | Water-Standard Water-Standard Water Standard Water | ained Leav<br>auna (B13<br>atic Plants<br>Sulfide O  | )<br>(B14)<br>dor (C1)<br>res on Liv  | -                 | Surface Drainage Dry-Sea Crayfish (C3) Saturation                           | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8)  |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift De   | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>farks (B1)<br>nt Deposits (B2)  |   | Water-Standard Water-Standard Water Standard Water | ained Leav<br>fauna (B13<br>atic Plants<br>n Sulfide Oo<br>Rhizosphe<br>e of Reduce  | )<br>(B14)<br>dor (C1)<br>res on Liv<br>ed Iron (C4                                   | ł)                | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted                    | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9)  |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der  | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>Marks (B1)<br>nt Deposits (B2)<br>posits (B3)   |   | Water-St. Aquatic F True Aqu Hydroger Oxidized Presence   | ained Leav<br>Fauna (B13<br>atic Plants<br>In Sulfide Oo<br>Rhizosphe<br>In Geduce<br>On Reducti   | (B14)<br>(B14)<br>dor (C1)<br>res on Liv<br>ed Iron (C4<br>on in Tille                | ł)                | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1)                                      |
| Wetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma  | drology Indicators:<br>cators (minimum of o<br>Water (A1)<br>ater Table (A2)<br>on (A3)<br>flarks (B1)<br>nt Deposits (B2)<br>posits (B3)<br>at or Crust (B4)  | one is required:  | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir  | ained Leav fauna (B13 atic Plants n Sulfide Or Rhizosphe of Reduce on Reducti k Surface (  | (B14)<br>dor (C1)<br>res on Lived Iron (C4<br>on in Tilled                            | ł)                | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)                   |
| Wetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der   | drology Indicators: cators (minimum of   | one is required:  | Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir  | ained Leav fauna (B13 atic Plants n Sulfide Or Rhizosphe of Reduce on Reducti k Surface ( r Well Data  | (B14)<br>(B14)<br>dor (C1)<br>res on Liv<br>d Iron (C4<br>on in Tilled<br>C7)<br>(D9) | ł)                | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)                   |
| Wetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der   | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial I y Vegetated Concave vations:   | Imagery (B7)<br>e Surface (B8)                                | Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or   | ained Leav<br>fauna (B13<br>atic Plants<br>n Sulfide Oo<br>Rhizosphe<br>e of Reduce<br>on Reducti<br>k Surface (<br>r Well Data<br>kplain in Re            | (B14) (dor (C1) res on Liv d Iron (C4 on in Tilled C7) (D9) marks)                    | d Soils (Co       | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)                   |
| Wetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift Dep Algal Ma Iron Dep Inundati Sparsely   | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial I by Vegetated Concave vations: er Present?  | Imagery (B7) e Surface (B8)                                   | Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex   | ained Leav fauna (B13 fatic Plants n Sulfide Or Rhizosphe of Reduce on Reducti k Surface ( r Well Data oplain in Re  | (B14) (B14) dor (C1) res on Liv d Iron (C4 on in Tilled C7) (D9) marks)               | d Soils (Co       | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)                   |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely  | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial I by Vegetated Concave vations: er Present?  | Imagery (B7) e Surface (B8)                                   | Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or   | ained Leav fauna (B13 fatic Plants n Sulfide Or Rhizosphe of Reduce on Reducti k Surface ( r Well Data oplain in Re  | (B14) (B14) dor (C1) res on Liv d Iron (C4 on in Tilled C7) (D9) marks)               | d Soils (Co       | Surface Drainage Dry-Sea Crayfish (C3) Saturatio Stunted Geomor             | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)                   |
| Wetland Hy Primary India Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P                            | drology Indicators: cators (minimum of of of water (A1) ater Table (A2) on (A3) flarks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial I by Vegetated Concave vations: are Present?  Yeresent?  Yeresent?  Yeresent?  Yeresent?  Yeresent?   | Imagery (B7) e Surface (B8) 'es No _ 'es No _                 | Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex   | ained Leav Fauna (B13 atic Plants n Sulfide Or Rhizosphe of Reduce on Reducti k Surface ( r Well Data xplain in Re nches): nches):                         | (B14) (B14) dor (C1) res on Liv d Iron (C4 on in Tille (C7) (D9) marks)               | d Soils (Co       | Surface Drainage Dry-Sea Crayfish (C3) Saturatic Stunted 6) Geomory FAC-Net | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)                   |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca              | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial I by Vegetated Concave vations: are Present? Present? Y | Imagery (B7) e Surface (B8) fes No _ fes No _ fes No _        | Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex   | ained Leav Fauna (B13 atic Plants in Sulfide Or Rhizosphe e of Reduce on Reducti k Surface ( ir Well Data oplain in Re inches): inches): inches): inches): | (B14) (B14) dor (C1) res on Liv d Iron (C4 on in Tilled C7) (D9) marks)               | d Soils (Co       | Surface Drainage Dry-Sea Crayfish (C3) Saturatic Stunted Gomori FAC-Net     | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Othic Position (D2) Outral Test (D5) |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca              | drology Indicators: cators (minimum of of of water (A1) ater Table (A2) on (A3) flarks (B1) int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial I by Vegetated Concave vations: are Present?  Yeresent?  Yeresent?  Yeresent?  Yeresent?  Yeresent?   | Imagery (B7) e Surface (B8) fes No _ fes No _ fes No _        | Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex   | ained Leav Fauna (B13 atic Plants in Sulfide Or Rhizosphe e of Reduce on Reducti k Surface ( ir Well Data oplain in Re inches): inches): inches): inches): | (B14) (B14) dor (C1) res on Liv d Iron (C4 on in Tilled C7) (D9) marks)               | d Soils (Co       | Surface Drainage Dry-Sea Crayfish (C3) Saturatic Stunted Gomori FAC-Net     | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Othic Position (D2) Outral Test (D5) |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca              | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial I by Vegetated Concave vations: are Present? Present? Y | Imagery (B7) e Surface (B8) fes No _ fes No _ fes No _        | Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex   | ained Leav Fauna (B13 atic Plants in Sulfide Or Rhizosphe e of Reduce on Reducti k Surface ( ir Well Data oplain in Re inches): inches): inches): inches): | (B14) (B14) dor (C1) res on Liv d Iron (C4 on in Tilled C7) (D9) marks)               | d Soils (Co       | Surface Drainage Dry-Sea Crayfish (C3) Saturatic Stunted Gomori FAC-Net     | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Othic Position (D2) Outral Test (D5) |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes car Describe Re | drology Indicators: cators (minimum of of of water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial I by Vegetated Concave vations: are Present? Present? Y Present? Y Present? Y Present? Y Present? Y Present (Stream   | Imagery (B7) e Surface (B8) 'es No _ 'es No _ a gauge, monito | Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex   | ained Leav Fauna (B13 atic Plants in Sulfide Or Rhizosphe e of Reduce on Reducti k Surface ( ir Well Data oplain in Re inches): inches): inches): inches): | (B14) (B14) dor (C1) res on Liv d Iron (C4 on in Tilled C7) (D9) marks)               | d Soils (Co       | Surface Drainage Dry-Sea Crayfish (C3) Saturatic Stunted Gomori FAC-Net     | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Othic Position (D2) Outral Test (D5) |
| Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes car Describe Re | drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial I by Vegetated Concave vations: are Present? Present? Y | Imagery (B7) e Surface (B8) 'es No _ 'es No _ a gauge, monito | Water-St. Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex   | ained Leav Fauna (B13 atic Plants in Sulfide Or Rhizosphe e of Reduce on Reducti k Surface ( ir Well Data oplain in Re inches): inches): inches): inches): | (B14) (B14) dor (C1) res on Liv d Iron (C4 on in Tilled C7) (D9) marks)               | d Soils (Co       | Surface Drainage Dry-Sea Crayfish (C3) Saturatic Stunted Gomori FAC-Net     | Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Othic Position (D2) Outral Test (D5) |

| Project/Site: AEP Fostoria to Lima                               | (                | City/Co | ounty: | Lima/All       | en   | Sampling Date:    | 2022-07-05      |
|--|------------------|---------|--------|----------------|--|-------------------|-----------------|
| Applicant/Owner: AEP   |                  |         |        |                | State: Ohio  | Sampling Point:   | 1-SP-022        |
| Investigator(s): Beth Hollinden, Chris Davisson                  |                  | Section | n, Tow | nship, Rar     | nge: OH01 T3S R7E S                                | N2                |                 |
|  |                  |         |        | ,              | (concave, convex, none):                           | None              |                 |
| Slope (%): 0 Lat: 40.816987                                      | ι                | Long: _ | -84.0  |                |  |                   | 34              |
| Soil Map Unit Name: ShA  |                  |         |        |                | NWI classifica                                     | ation: R5UBH      |                 |
| Are climatic / hydrologic conditions on the site typical for the | is time of yea   | ar? Ye  | es     | No _           | (If no, explain in Re                              | emarks.)          |                 |
| Are Vegetation, Soil, or Hydrology                               | significantly of | disturb | ed?    | Are "I         | Normal Circumstances" p                            | resent? Yes       | No              |
| Are Vegetation, Soil, or Hydrology                               | naturally prob   | blemat  | tic?   | (If ned        | eded, explain any answer                           | rs in Remarks.)   |                 |
| SUMMARY OF FINDINGS - Attach site map                            | showing          | sam     | pling  | point lo       | ocations, transects,                               | , important fe    | eatures, etc.   |
| Hydrophytic Vegetation Present? Yes 1                            | No               |         |        |                |  |                   |                 |
| Hydric Soil Present? Yes N                                       | No               |         |        | Sampled        |  |                   |                 |
| Wetland Hydrology Present? Yes 1                                 | No               |         | withir | n a Wetlan     | id? Yes  | No                | _               |
| Remarks:   |                  |         |        |                |  |                   |                 |
| Not a wetland. Riparian corridor of                              | stream           | •       |        |                |  |                   |                 |
| VEGETATION – Use scientific names of plants                      | S.               |         |        |                |  |                   |                 |
| - 20 ft r  | Absolute         |         |        | Indicator      | Dominance Test works                               | sheet:            |                 |
| Tree Stratum (Plot size: 30 ft r )  1. Fraxinus pennsylvanica    | % Cover<br>5     | Spec    |        | Status<br>FACW | Number of Dominant Sp                              | pecies            | (A)             |
| 1. Fraxinus pennsylvanica 2.                                     |                  |         |        |                | That Are OBL, FACW, o                              | FAC. 2            | (A)             |
| 3  |                  |         |        |                | Total Number of Domina<br>Species Across All Strat | ^                 | (B)             |
| 4  |                  |         |        |                |  |                   | (5)             |
| 5  |                  |         |        |                | Percent of Dominant Sp<br>That Are OBL, FACW, or   |                   | (A/B)           |
| 15 ft r  | 5%               | = Tota  | l Cove | er             | Prevalence Index work                              |                   |                 |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                      |                  |         |        |                | Total % Cover of:                                  |                   | ly by:          |
| 1  |                  |         |        |                |  | x 1 = 0           | ly by.          |
| 2<br>3   |                  |         |        |                |  | x 2 = 210         | <u> </u>        |
| 4  |                  |         |        |                |  | x 3 = 0           |                 |
| 5.   |                  |         |        |                |  | x 4 = 0           |                 |
|  |                  | = Tota  | l Cove | er             | UPL species 0                                      |                   |                 |
| Herb Stratum (Plot size: 5 ft r ) 1. Phalaris arundinacea        | 100              | ,       |        | FACW           | Column Totals: 105                                 | (A) 210           | O (B)           |
|  |                  |         |        | —              | Prevalence Index                                   | - R/A - 2.00      |                 |
| 2  |                  |         |        |                | Hydrophytic Vegetatio                              |                   |                 |
| 3  |                  |         |        |                | ✓ 1 - Rapid Test for H                             |                   | tation          |
| 4  |                  |         |        |                | 2 - Dominance Test                                 |                   |                 |
| 56.  |                  |         |        |                | 3 - Prevalence Inde                                |                   |                 |
| 7  |                  |         |        |                | 4 - Morphological A                                | daptations¹ (Prov | vide supporting |
| 8  |                  |         |        |                |  | or on a separate  | -               |
| 9  |                  |         |        |                | Problematic Hydrop                                 | onytic vegetation | (Explain)       |
| 10   |                  |         |        |                | <sup>1</sup> Indicators of hydric soil             | and wetland hyd   | trology must    |
| Woody Vine Stratum (Plot size: 30 ft r                           | 100%             | = Tota  | I Cove | er             | be present, unless distu                           |                   |                 |
| 1. Convolvulus arvensis  | 10               | ,       | ,      |                | He decode of                                       |                   |                 |
| 2  |                  |         |        |                | Hydrophytic<br>Vegetation                          |                   |                 |
|  | 10%              | = Tota  | l Cove | r              | Present? Yes                                       | sNo_              |                 |
| Remarks: (Include photo numbers here or on a separate            | sheet.)          |         |        |                |  |                   |                 |
| Hydrophytic vegetation present.                                  |                  |         |        |                |  |                   |                 |
|  |                  |         |        |                |  |                   |                 |

| Profile Description: (Describe to the depth                              | needed to document the               | indicator or cor   | firm the absence of         | f indicators.)                             |  |  |  |
|--|--------------------------------------|--|-----------------------------|--|--|--|--|
| Depth Matrix   | Redox Feature                        | s  | <del>3 -</del>              |  |  |  |  |
| (inches) Color (moist) %   | Color (moist) %                      | _Type <sup>1</sup> _Loc                                  |                             | Remarks                                    |  |  |  |
| 0 - 20 10YR 5/3 100 _  |                                      |  | Silty Clay                  |  |  |  |  |
|  |                                      |  |                             |  |  |  |  |
| -  |                                      |  |                             |  |  |  |  |
|  |                                      |  |                             |  |  |  |  |
|  |                                      |  |                             |  |  |  |  |
|  |                                      |  |                             |  |  |  |  |
|  |                                      |  |                             |  |  |  |  |
| -  |                                      |  |                             |  |  |  |  |
| <sup>1</sup> Type: C=Concentration, D=Depletion, RM=R                    | educed Matrix. MS=Masked             | d Sand Grains.   | <sup>2</sup> Location:      | PL=Pore Lining, M=Matrix.                  |  |  |  |
| Hydric Soil Indicators:  | ,,,,                                 |  |                             | or Problematic Hydric Soils <sup>3</sup> : |  |  |  |
| Histosol (A1)  | Sandy Gleyed Ma                      | atrix (S4)   | Coast Pr                    | rairie Redox (A16)                         |  |  |  |
| Histic Epipedon (A2)   | Dark Sur                             | face (S7)  |                             |  |  |  |  |
| Black Histic (A3)  | Iron-Mar                             | nganese Masses (F12)                                     |                             |  |  |  |  |
| Hydrogen Sulfide (A4)  | Loamy Mucky Mir                      |  |                             | allow Dark Surface (TF12)                  |  |  |  |
| Stratified Layers (A5)   | Loamy Gleyed Ma                      |  | Other (E                    | xplain in Remarks)                         |  |  |  |
| 2 cm Muck (A10)  | Depleted Matrix (                    | ,  |                             |  |  |  |  |
| Depleted Below Dark Surface (A11) Thick Dark Surface (A12)               | Redox Dark Surfa<br>Depleted Dark Su | , ,  | 3Indicators o               | f hydrophytic vegetation and               |  |  |  |
| Sandy Mucky Mineral (S1)   |                                      | nydrophytic vegetation and<br>nydrology must be present, |                             |  |  |  |  |
| 5 cm Mucky Peat or Peat (S3)   |                                      |  |                             |  |  |  |  |
| Restrictive Layer (if observed):   |                                      |  |                             | isturbed or problematic.                   |  |  |  |
| Type:  | _                                    |  |                             |  |  |  |  |
| Depth (inches):  |                                      |  | Hydric Soil P               | resent? Yes No                             |  |  |  |
| Remarks:   | <del>_</del>                         |  |                             |  |  |  |  |
| Hydric soil absent.  |                                      |  |                             |  |  |  |  |
| HYDROLOGY  |                                      |  |                             |  |  |  |  |
| Wetland Hydrology Indicators:  |                                      |  |                             |  |  |  |  |
| Primary Indicators (minimum of one is required                           | d; check all that apply)             |  | <u>Secondary</u>            | Indicators (minimum of two required)       |  |  |  |
| Surface Water (A1)   | Water-Stained Leav                   | es (B9)  | Surface Soil Cracks (B6)    |  |  |  |  |
| High Water Table (A2)  | Aquatic Fauna (B13                   | )  | Drainage Patterns (B10)     |  |  |  |  |
| Saturation (A3)  | True Aquatic Plants                  | (B14)  | Dry-Season Water Table (C2) |  |  |  |  |
| Water Marks (B1)   | Hydrogen Sulfide O                   | dor (C1)   | Crayfi                      | sh Burrows (C8)                            |  |  |  |
| Sediment Deposits (B2)   | Oxidized Rhizosphe                   | res on Living Ro   | oots (C3) Satura            | ation Visible on Aerial Imagery (C9)       |  |  |  |
| Drift Deposits (B3)  | Presence of Reduce                   | ed Iron (C4)   | Stunte                      | ed or Stressed Plants (D1)                 |  |  |  |
| Algal Mat or Crust (B4)  | Recent Iron Reducti                  |  | —                           | orphic Position (D2)                       |  |  |  |
| Iron Deposits (B5)   | Thin Muck Surface (                  | . ,  | ✓ FAC-N                     | Neutral Test (D5)                          |  |  |  |
| Inundation Visible on Aerial Imagery (B7)                                | Gauge or Well Data                   |  |                             |  |  |  |  |
| Sparsely Vegetated Concave Surface (B8                                   | ) Other (Explain in Re               | emarks)  |                             |  |  |  |  |
| Field Observations:  | •                                    |  |                             |  |  |  |  |
|  | Depth (inches):                      |  |                             |  |  |  |  |
|  | Depth (inches):                      |  |                             |  |  |  |  |
|  | Depth (inches):                      | \ \  | Wetland Hydrology           | Present? Yes No                            |  |  |  |
| (includes capillary fringe)  Describe Recorded Data (stream gauge, monit | toring well, aerial photos, pr       | evious inspectio   | ns), if available:          |  |  |  |  |
|  |                                      |  |                             |  |  |  |  |
| Remarks:   |                                      |  |                             |  |  |  |  |
| Wetland hydrology absent.  |                                      |  |                             |  |  |  |  |
|  |                                      |  |                             |  |  |  |  |
|  |                                      |  |                             |  |  |  |  |

| Project/Site: AEP Fostoria to Lima                                | C             | City/Co | ounty: Lima | a/Allen                                       | Sampling Date: 2022-07-05  |
|---|---------------|---------|-------------|---|--|
| Applicant/Owner: AEP  |               |         |             | State: Ohio                                   | Sampling Point: 1-SP-023   |
| Investigator(s): Beth Hollinden, Chris Davisson                   |               | Section | n, Township | o, Range: <u>OH01 T3S R7E S</u>               | 3N2  |
| Landform (hillslope, terrace, etc.): Flat                         |               |         | Local r     | relief (concave, convex, none):               | None   |
| Slope (%): 0 Lat: 40.810354                                       | L             | _ong: _ | -84.0244    | 449   | Datum: WGS 84  |
| Soil Map Unit Name: ShA   |               |         |             | NWI classific                                 | ation: PEM1A   |
| Are climatic / hydrologic conditions on the site typical for this | time of yea   | ar? Ye  | es 1        | No (If no, explain in R                       | emarks.)   |
| Are Vegetation, Soil, or Hydrology sig                            | gnificantly d | disturb | ed?         | Are "Normal Circumstances" p                  | present? Yes No  |
| Are Vegetation, Soil, or Hydrology na                             | aturally prob | blemat  | ic?         | (If needed, explain any answe                 | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map s                           | howing        | samp    | pling poi   | int locations, transects                      | , important features, etc.   |
| Hydrophytic Vegetation Present? Yes No                            | ,             |         |             |   |  |
| Hydric Soil Present? Yes No                                       |               |         | Is the Sam  | •   | 4  |
| Wetland Hydrology Present? Yes No                                 |               |         | within a W  | retland? Yes                                  | No   |
| Remarks:  |               |         |             |   |  |
| Not a wetland. Mown yard.   |               |         |             |   |  |
| VEGETATION – Use scientific names of plants.                      |               |         |             |   |  |
| 00.5  |               |         | nant Indica |   | sheet:   |
|   | % Cover       |         |             | Number of Dominant S                          |  |
| 1<br>2  |               |         |             | That Are OBL, FACW,                           | or FAC: 0 (A)  |
| 3   |               |         |             | Total Number of Domin Species Across All Stra |  |
| 4.  |               |         |             | '   |  |
| 5   |               |         |             | Percent of Dominant Sp  That Are OBL, FACW,   |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       | =             | = Total | l Cover     | Prevalence Index wor                          | ksheet:  |
| 1   |               |         |             | Total % Cover of:                             |  |
| 2.  |               |         |             | <del></del>                                   | x 1 = <u>0</u>   |
| 3   |               |         |             |   | x 2 = 0  |
| 4   |               |         |             |   | x = 0 $x = 400$  |
| 5   |               |         |             | UPL species 0                                 | x 4 = 400<br>x 5 = 0   |
| Herb Stratum (Plot size: 5 ft r )                                 |               |         |             | Column Totals: 100                            | (A) 400 (B)  |
| 1. Festuca rubra  | 100           |         | FAC         | U   |  |
| 2   |               |         |             |   | = B/A = <u>4.00</u>  |
| 3   |               |         |             | Hydrophytic Vegetation 1 - Rapid Test for H   |  |
| 4   |               |         |             | — I — <u> </u>                                |  |
| 5<br>6  |               |         |             |   |  |
| 7   |               |         |             | 4 - Morphological A                           | Adaptations <sup>1</sup> (Provide supporting                       |
| 8   |               |         |             | I   | s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain) |
| 9   |               |         |             | —   Problematic Hydro                         | priytic vegetation (Explain)                                       |
| 10  | 100%          |         |             | Indicators of hydric soi                      | il and wetland hydrology must                                      |
| Woody Vine Stratum (Plot size: 30 ft r                            | 100%_         | = Tota  | l Cover     | be present, unless distu                      | urbed or problematic.  |
| 1   |               |         |             | Hydrophytic                                   |  |
| 2   |               |         |             | Vegetation Present? Ye                        | s No   |
| Remarks: (Include photo numbers here or on a separate si          |               | = Total | l Cover     | 110001111                                     |  |
|   | ieet.)        |         |             |   |  |
| Hydrophytic vegetation absent.                                    |               |         |             |   |  |
|   |               |         |             |   |  |

| Profile Desc   | cription: (Describe                      | to the depth r   | needed to docu     | ment the i         | indicator            | or confirm          | n the absence of i       | ndicators.)                             |  |  |  |
|--|--|------------------|--------------------|--------------------|----------------------|---------------------|--------------------------|---|--|--|--|
| Depth  | Matrix                                   |                  |                    | ox Feature         |                      |                     |                          |   |  |  |  |
| (inches)   | Color (moist)                            |                  | Color (moist)      | %                  | _Type <sup>1</sup> _ | _Loc <sup>2</sup> _ |                          | Remarks                                 |  |  |  |
| 0 - 20   | 10YR 6/3                                 | _ <u>100</u>     |                    |                    |                      |                     | Silty Clay               |   |  |  |  |
|  |  |                  |                    |                    |                      |                     |                          |   |  |  |  |
|  |  |                  |                    |                    |                      |                     |                          |   |  |  |  |
|  |  |                  |                    |                    |                      |                     |                          |   |  |  |  |
| l — —  |  |                  |                    |                    |                      |                     |                          |   |  |  |  |
| l —  |  | - — —            |                    |                    |                      |                     |                          |   |  |  |  |
|  |  |                  |                    |                    |                      |                     |                          |   |  |  |  |
| -  |  |                  |                    |                    |                      |                     |                          |   |  |  |  |
| <sup>1</sup> Type: C=C   | oncentration, D=Dep                      | oletion. RM=Re   | educed Matrix. M   | – ———<br>IS=Masked | d Sand Gra           | ains.               | <sup>2</sup> Location: P | L=Pore Lining, M=Matrix.                |  |  |  |
| Hydric Soil  |  | •                |                    |                    |                      |                     |                          | Problematic Hydric Soils <sup>3</sup> : |  |  |  |
| Histosol   | (A1)                                     |                  | Sandy              | Gleyed Ma          | atrix (S4)           |                     | Coast Pra                | irie Redox (A16)                        |  |  |  |
| Histic E   | pipedon (A2)                             |                  |                    | Redox (S5          |                      |                     | Dark Surfa               | ace (S7)                                |  |  |  |
| Black Hi   | Black Histic (A3) Stripped Matrix (S6)   |                  |                    |                    |                      |                     | Iron-Mang                | anese Masses (F12)                      |  |  |  |
|  | en Sulfide (A4)                          |                  |                    | Mucky Mir          |                      |                     |                          | ow Dark Surface (TF12)                  |  |  |  |
| 1  | d Layers (A5)                            |                  |                    | Gleyed Ma          |                      |                     | Other (Exp               | olain in Remarks)                       |  |  |  |
| ı —  | uck (A10)                                | · (A11)          |                    | ed Matrix (        |                      |                     |                          |   |  |  |  |
|  | d Below Dark Surfac<br>ark Surface (A12) | æ (ATT)          | _                  | Dark Surfa         |                      |                     | 3Indicators of           | hydrophytic vegetation and              |  |  |  |
| Thick Dark Surface (A12) Depleted Dark Surface (F7)<br>Sandy Mucky Mineral (S1) Redox Depressions (F8) |  |                  |                    |                    |                      |                     |                          | rdrology must be present,               |  |  |  |
|  | ucky Peat or Peat (S                     | 3)               |                    |                    | ()                   |                     |                          | turbed or problematic.                  |  |  |  |
|  | Layer (if observed)                      |                  |                    |                    |                      |                     |                          | •                                       |  |  |  |
| Type:  |  |                  | _                  |                    |                      |                     |                          |   |  |  |  |
| Depth (in  | ches):                                   |                  |                    |                    |                      |                     | Hydric Soil Pre          | esent? Yes No                           |  |  |  |
| Remarks:   |  |                  |                    |                    |                      |                     |                          |   |  |  |  |
| Hyaric   | soil absent.                             |                  |                    |                    |                      |                     |                          |   |  |  |  |
| HYDROLO  | GY                                       |                  |                    |                    |                      |                     |                          |   |  |  |  |
| Wetland Hy   | drology Indicators:                      | 1                |                    |                    |                      |                     |                          |   |  |  |  |
| Primary Indi   | cators (minimum of o                     | one is required: | check all that a   | pply)              |                      |                     | Secondary I              | ndicators (minimum of two required)     |  |  |  |
| Surface  | Water (A1)                               |                  | Water-Sta          | ained Leav         | es (B9)              |                     | Surface Soil Cracks (B6) |   |  |  |  |
| High Wa  | ater Table (A2)                          |                  |                    | auna (B13          | ,                    |                     | Drainage Patterns (B10)  |   |  |  |  |
| Saturati   | on (A3)                                  |                  | True Aqu           | atic Plants        | (B14)                |                     | Dry-Sea                  | ason Water Table (C2)                   |  |  |  |
| Water M  | larks (B1)                               |                  | Hydrogen           | Sulfide O          | dor (C1)             |                     | Crayfish                 | n Burrows (C8)                          |  |  |  |
| Sedime   | nt Deposits (B2)                         |                  |                    | Rhizosphe          |                      | -                   | (C3) Saturati            | on Visible on Aerial Imagery (C9)       |  |  |  |
| ı —  | posits (B3)                              |                  | _                  | of Reduce          | •                    | ,                   | _                        | or Stressed Plants (D1)                 |  |  |  |
| l  | at or Crust (B4)                         |                  | Recent Ir          |                    |                      | d Soils (Ce         | · —                      | rphic Position (D2)                     |  |  |  |
| l —  | posits (B5)                              | . (55)           | Thin Muc           |                    |                      |                     | FAC-Ne                   | eutral Test (D5)                        |  |  |  |
| —  | on Visible on Aerial                     | 0 , , ,          | Gauge or           |                    | . ,                  |                     |                          |   |  |  |  |
|  | y Vegetated Concav                       | e Surface (B8)   | Other (Ex          | plain in Re        | emarks)              |                     |                          |   |  |  |  |
| Field Obser  |  |                  | V                  |                    |                      |                     |                          |   |  |  |  |
| Surface Wat  |  |                  | Depth (ir          |                    |                      |                     |                          |   |  |  |  |
| Water Table  |  |                  | Depth (ir          |                    |                      |                     |                          |   |  |  |  |
|  | pillary fringe)                          |                  | Depth (ir          |                    |                      |                     |                          | resent? Yes No                          |  |  |  |
| Describe Re  | corded Data (stream                      | i gauge, monit   | ornig well, aerial | priotos, pr        | evious iiis          | pecuons),           | ii avallable.            |   |  |  |  |
| Remarks:   |  |                  |                    |                    |                      |                     |                          |   |  |  |  |
| Wetland  | hydrology a                              | absent.          |                    |                    |                      |                     |                          |   |  |  |  |
|  | , 3,                                     |                  |                    |                    |                      |                     |                          |   |  |  |  |
|  |  |                  |                    |                    |                      |                     |                          |   |  |  |  |

| Project/Site: AEP Fostoria to Lima                                   | City            | /County:        | Findlay/      | Hancock   | Sampling Date: 2022-06-30  |
|--|-----------------|-----------------|---------------|---|--|
| Applicant/Owner: AEP   |                 |                 |               | State: Ohio                                     | Sampling Point: 1-T  |
| Investigator(s): Beth Hollinden, Chris Davisson                      | Sec             | ction, Tow      | vnship, Rar   | nge: OH01 T2N R11E                              | SN31   |
| Landform (hillslope, terrace, etc.): Depression                      |                 | L               | ocal relief ( | (concave, convex, none):                        | Concave  |
| Slope (%): 2 Lat: 41.086924  | Lon             | ıg: <u>-83.</u> | 648955        |   | Datum: WGS 84  |
| Soil Map Unit Name: SkB  |                 |                 |               | NWI classific                                   | ation: N/A   |
| Are climatic / hydrologic conditions on the site typical for this ti |                 |                 |               |   |  |
| Are Vegetation, Soil, or Hydrology sign                              | nificantly dist | urbed?          | Are "         | Normal Circumstances" p                         | present? Yes No  |
| Are Vegetation, Soil, or Hydrology nat                               | urally probler  | matic?          | (If ne        | eded, explain any answe                         | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map sh                             | nowing sa       | mpling          | point lo      | ocations, transects                             | , important features, etc.   |
| Hydrophytic Vegetation Present? Yes No _                             |                 |                 |               |   |  |
| Hydric Soil Present? Yes No _  |                 |                 | Sampled       |   | No   |
| Wetland Hydrology Present? Yes ✓ No _ Remarks:                       |                 | within          | n a Wetlan    | dr fes  | NO   |
|  |                 |                 |               |   |  |
| PEM. ORAM score of 13.   |                 |                 |               |   |  |
| <b>VEGETATION</b> – Use scientific names of plants.                  |                 |                 |               |   |  |
|  | Absolute Do     |                 | Indicator     | Dominance Test work                             |  |
| 1  |                 |                 | Status        | Number of Dominant Sp<br>That Are OBL, FACW, of |  |
| 2.   |                 |                 |               | Total Number of Domin                           |  |
| 3  |                 |                 |               | Species Across All Stra                         | _  |
| 4  |                 |                 |               | Percent of Dominant Sp                          | pecies   |
| 5  |                 | -4-1.0          |               | That Are OBL, FACW, o                           |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                          | = T             | otal Cove       | er            | Prevalence Index worl                           | ksheet:  |
| 1  |                 |                 |               | Total % Cover of:                               |  |
| 2  |                 |                 |               |   | x 1 = 80   |
| 3  |                 |                 |               |   | x = 0<br>x = 60  |
| 4  |                 |                 |               |   | x = 0 $x = 0$  |
|  | = T             |                 | er            |   | x 5 = 0  |
| Herb Stratum (Plot size: 5 ft r )                                    |                 |                 | OBL           | Column Totals: 100                              | (A) 140 (B)  |
|  | 80<br>20        |                 | FAC           | Drovalance Index                                | = B/A = <u>1.40</u>  |
| 3  |                 |                 |               | Hydrophytic Vegetation                          |  |
| 4  |                 |                 |               | ,         | Hydrophytic Vegetation   |
| 5.   |                 |                 |               | ✓ 2 - Dominance Tes                             | it is >50%   |
| 6  |                 |                 |               | 3 - Prevalence Inde                             |  |
| 7  |                 |                 |               | 4 - Morphological A                             | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |
| 8  |                 |                 |               |   | phytic Vegetation <sup>1</sup> (Explain)                               |
| 9  |                 |                 |               |   |  |
| 10   | 100% = T        | otal Cove       | er            |   | l and wetland hydrology must   |
| Woody Vine Stratum (Plot size: 30 ft r )                             |                 | olai oori       | J.            | be present, unless distu                        | irbed or problematic.  |
| 1  |                 |                 |               | Hydrophytic                                     |  |
| 2  | = T             | otal Cov        |               | Vegetation<br>Present? Yes                      | s No   |
| Remarks: (Include photo numbers here or on a separate she            |                 | JIAI COVE       | 51            |   |  |
| Hydrophytic vegetation present.                                      | •               |                 |               |   |  |
| l si opily do vogotation present.                                    |                 |                 |               |   |  |

| Profile Desc           | ription: (Describe                         | to the depth      | needed to docur       | nent the    | indicator          | or confirn        | n the absence of in         | dicators.)                                       |  |  |
|------------------------|--|-------------------|-----------------------|-------------|--------------------|-------------------|-----------------------------|--|--|--|
| Depth                  | Matrix                                     |                   | Redo                  | x Feature   | es                 |                   |                             |  |  |  |
| (inches)               | Color (moist)                              | %                 | Color (moist)         | %_          | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                     | Remarks  |  |  |
| 0 - 20                 | 10YR 5/2                                   | 90 1              | 0YR 5/6               | 10          | <u>C</u>           | <u>M</u>          | Silty Clay                  |  |  |  |
| -                      |  |                   |                       |             |                    |                   |                             |  |  |  |
|                        |  |                   |                       |             |                    |                   |                             |  |  |  |
|                        |  |                   |                       |             |                    |                   |                             |  |  |  |
| <u> </u>               |  |                   |                       |             |                    |                   |                             |  |  |  |
|                        |  |                   |                       |             |                    |                   |                             |  |  |  |
|                        |  |                   |                       |             |                    |                   |                             |  |  |  |
|                        |  |                   |                       |             |                    |                   |                             |  |  |  |
| <sup>1</sup> Type: C=C | oncentration, D=De                         | oletion RM=R      | educed Matrix MS      | S=Maske     | d Sand Gr          | aine              | 2l ocation: Pl :            | =Pore Lining, M=Matrix.                          |  |  |
| Hydric Soil            |  | pietion, rtivi–rt | educed Matrix, Mi     | 3-Waske     | u Sanu Gi          | allis.            |                             | Problematic Hydric Soils <sup>3</sup> :          |  |  |
| Histosol               |  |                   | Sandy (               | Sleved Ma   | atrix (S4)         |                   |                             | e Redox (A16)                                    |  |  |
| ı —                    | oipedon (A2)                               |                   |                       | Redox (St   |                    |                   | Dark Surfac                 | . ,  |  |  |
| ı —                    | stic (A3)                                  |                   |                       | Matrix (    | -                  |                   |                             | nese Masses (F12)                                |  |  |
| Hydroge                | en Sulfide (A4)                            |                   | Loamy                 | Mucky Mi    | neral (F1)         |                   | Very Shallo                 | w Dark Surface (TF12)                            |  |  |
| Stratified             | d Layers (A5)                              |                   |                       |             | atrix (F2)         |                   | Other (Expla                | ain in Remarks)                                  |  |  |
| ı —                    | ıck (A10)                                  |                   |                       | d Matrix (  |                    |                   |                             |  |  |  |
| ı —                    | d Below Dark Surfac                        | ce (A11)          | _                     | Dark Surf   |                    |                   | 3                           |  |  |  |
| _                      | ark Surface (A12)                          |                   |                       |             | urface (F7         | )                 |                             | ydrophytic vegetation and                        |  |  |
|                        | lucky Mineral (S1)<br>icky Peat or Peat (S | :3)               | Redox I               | Depressio   | ons (F8)           |                   |                             | rology must be present,<br>irbed or problematic. |  |  |
|                        | Layer (if observed)                        |                   |                       |             |                    |                   | unless dista                | inded of problematic.                            |  |  |
| I                      |  |                   |                       |             |                    |                   |                             |  |  |  |
|                        | ches):                                     |                   | _                     |             |                    |                   | Hydric Soil Pres            | ent? Yes No                                      |  |  |
|                        |  |                   |                       |             |                    |                   |                             |  |  |  |
| Remarks:               |  |                   |                       |             |                    |                   |                             |  |  |  |
| Hydric                 | soil present.                              |                   |                       |             |                    |                   |                             |  |  |  |
| -                      | •  |                   |                       |             |                    |                   |                             |  |  |  |
|                        |  |                   |                       |             |                    |                   |                             |  |  |  |
| LIVEROLO               | OV.  |                   |                       |             |                    |                   |                             |  |  |  |
| HYDROLO                |  |                   |                       |             |                    |                   |                             |  |  |  |
| 1                      | drology Indicators                         |                   |                       |             |                    |                   |                             |  |  |  |
| Primary India          | cators (minimum of                         | one is required   |                       |             |                    |                   | Secondary Inc               | dicators (minimum of two required)               |  |  |
| I —                    | Water (A1)                                 |                   | Water-Sta             |             | ` '                |                   | Surface Soil Cracks (B6)    |  |  |  |
| High Wa                | iter Table (A2)                            |                   | Aquatic Fa            | ,           | ,                  |                   | Drainage Patterns (B10)     |  |  |  |
| Saturation             | on (A3)                                    |                   | True Aqua             | itic Plants | (B14)              |                   | Dry-Season Water Table (C2) |  |  |  |
| Water M                |  |                   | Hydrogen              |             |                    |                   |                             | Burrows (C8)                                     |  |  |
| Sedimer                | nt Deposits (B2)                           |                   | Oxidized F            |             |                    | -                 | (C3) Saturation             | n Visible on Aerial Imagery (C9)                 |  |  |
| ı —                    | posits (B3)                                |                   | Presence              |             | ,                  | ,                 | _                           | or Stressed Plants (D1)                          |  |  |
| ı —                    | at or Crust (B4)                           |                   | Recent Iro            |             |                    | d Soils (C6       | . —                         | phic Position (D2)                               |  |  |
| I —                    | posits (B5)                                |                   | Thin Muck             |             | ` '                |                   | ✓ FAC-Neu                   | itral Test (D5)                                  |  |  |
| ı —                    | on Visible on Aerial                       |                   | Gauge or              |             |                    |                   |                             |  |  |  |
|                        | / Vegetated Concav                         | e Surface (B8     | ) Other (Exp          | plain in Re | emarks)            |                   |                             |  |  |  |
| Field Obser            |  |                   |                       |             |                    |                   |                             |  |  |  |
| Surface Wat            |  |                   | Depth (in             |             |                    |                   |                             |  |  |  |
| Water Table            | Present?                                   | res No            | Depth (in             | ches):      |                    |                   |                             |  |  |  |
| Saturation P           |  | res No            | Depth (in             | ches):      |                    | Wetl              | and Hydrology Pre           | sent? Yes No                                     |  |  |
| (includes cap          | oillary fringe)<br>corded Data (strean     | n daude monit     | toring well aerial i  | nhotos n    | revious in         | enections)        | if available:               |  |  |  |
| Describe Ne            | colded Data (Silean                        | ii gauge, moni    | toring well, aeriai j | priotos, p  | ievious iris       | spections),       | ii avaliable.               |  |  |  |
| Damada                 |  |                   |                       |             |                    |                   |                             |  |  |  |
| Remarks:               |  |                   |                       |             |                    |                   |                             |  |  |  |
| Wetland                | l hydrology                                | present.          |                       |             |                    |                   |                             |  |  |  |
|                        |  |                   |                       |             |                    |                   |                             |  |  |  |
|                        |  |                   |                       |             |                    |                   |                             |  |  |  |

| Project/Site: AEP Fostoria to Lima                                | C             | city/Coun       | ty: Findlay/             | Hancock   | Sampling Date: 2022-07-01  |
|---|---------------|-----------------|--------------------------|---|--|
| Applicant/Owner: AEP  |               |                 |                          | State: Ohio                                     | Sampling Point: 1-U  |
| Investigator(s): Beth Hollinden, Chris Davisson                   | 8             | Section, T      | Γownship, Rai            | nge: OH01 T2N R10E                              | SN36   |
| Landform (hillslope, terrace, etc.): Depression                   |               |                 | Local relief             | (concave, convex, none):                        | Concave  |
| Slope (%): 1 Lat: 41.082425                                       | ۱             | .ong: <u>-8</u> | 3.662281                 |   | Datum: WGS 84  |
| Soil Map Unit Name: PmA   |               |                 |                          | NWI classific                                   | ation: N/A   |
| Are climatic / hydrologic conditions on the site typical for this |               |                 |                          |   |  |
| Are Vegetation, Soil, or Hydrology sig                            | gnificantly d | listurbed'      | ? Are "                  | 'Normal Circumstances" p                        | oresent? Yes No  |
| Are Vegetation, Soil, or Hydrology na                             | aturally prob | olematic?       | (If ne                   | eded, explain any answer                        | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map s                           | howing        | sampli          | ng point le              | ocations, transects                             | , important features, etc.   |
| Hydrophytic Vegetation Present? Yes No                            | )             |                 |                          |   |  |
| Hydric Soil Present? Yes No                                       |               |                 | the Sampled              |   | No   |
| Wetland Hydrology Present? Yes V No Remarks:                      | ·             | WII             | thin a Wetlar            | id? Tes   | NO   |
|   |               |                 |                          |   |  |
| PEM. ORAM score of 26.  |               |                 |                          |   |  |
| <b>VEGETATION</b> – Use scientific names of plants.               |               |                 |                          |   |  |
|   |               |                 | nt Indicator<br>? Status | Dominance Test work                             |  |
| 1   |               |                 | <u>Otatas</u>            | Number of Dominant Sp<br>That Are OBL, FACW, of | •  |
| 2   |               |                 |                          | Total Number of Domina                          |  |
| 3   |               |                 |                          | Species Across All Stra                         | •  |
| 4   |               |                 |                          | Percent of Dominant Sp                          | pecies   |
| 5   |               |                 |                          | That Are OBL, FACW, o                           |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |               | = Total C       | over                     | Prevalence Index work                           | ksheet:  |
| 1   |               |                 |                          | Total % Cover of:                               |  |
| 2   |               |                 |                          |   | x 1 = 40   |
| 3   |               |                 |                          | _   | x 2 = 120  |
| 4   |               |                 |                          | ·   | x 3 = 0  |
| 5   |               |                 |                          |   | x 4 = 0  |
| Herb Stratum (Plot size: 5 ft r )                                 |               | = Total C       | over                     | UPL species 0 Column Totals: 100                | $x = \frac{0}{160}$ (B)  |
| 1. Bidens frondosa  | 30            |                 | FACW                     |   | (-)  |
| 2. Carex vulpinoidea  | 30            |                 | FACW                     | Prevalence Index                                | = B/A = <u>1.60</u>  |
| 3. Eleocharis palustris   | 30            |                 | OBL                      | Hydrophytic Vegetation                          |  |
| 4. Carex tribuloides  | 10            |                 | OBL                      | 1 - Rapid Test for H                            |  |
| 5   |               |                 |                          | 2 - Dominance Tes                               |  |
| 6   |               |                 |                          | ✓ 3 - Prevalence Inde                           |  |
| 7   |               |                 |                          | data in Remarks                                 | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |
| 8   |               |                 |                          | 1   | phytic Vegetation¹ (Explain)   |
| 9   |               |                 |                          |   |  |
|   | 100% =        |                 | over                     |   | l and wetland hydrology must   |
| Woody Vine Stratum (Plot size: 30 ft r )                          |               | rotaro          | 0101                     | be present, unless distu                        | irbed or problematic.  |
| 1   |               |                 |                          | Hydrophytic                                     |  |
| 2   |               |                 |                          | Vegetation<br>  Present? Yes                    | s No   |
| Remarks: (Include photo numbers here or on a separate sl          |               | = Total C       | over                     |   |  |
|   | 11001.)       |                 |                          |   |  |
| Hydrophytic vegetation present.                                   |               |                 |                          |   |  |
|   |               |                 |                          |   |  |

| Profile Desc            | ription: (Describe                       | to the depth    | needed to docun      | nent the i           | indicator          | or confirn        | n the absence of ir                              | ndicators.)                             |  |  |  |
|-------------------------|--|-----------------|----------------------|----------------------|--------------------|-------------------|--|---|--|--|--|
| Depth                   | Matrix                                   |                 | Redo                 | x Feature            | s                  |                   |  |   |  |  |  |
| (inches)                | Color (moist)                            | %               | Color (moist)        | %                    | _Type <sup>1</sup> | _Loc <sup>2</sup> |  | Remarks                                 |  |  |  |
| 0 - 20                  | 10YR 5/2                                 | 95 1            | 0YR 6/6              | 5                    | <u> </u>           | <u>M</u>          | Silty Clay                                       |   |  |  |  |
| -                       |  |                 |                      |                      |                    |                   |  |   |  |  |  |
|                         |  |                 |                      |                      |                    |                   |  |   |  |  |  |
|                         |  |                 |                      |                      |                    |                   |  |   |  |  |  |
| <del></del>             |  |                 |                      |                      |                    |                   |  |   |  |  |  |
|                         |  |                 |                      |                      |                    |                   |  |   |  |  |  |
|                         |  |                 |                      |                      |                    |                   |  |   |  |  |  |
| -                       |  |                 |                      |                      |                    |                   |  |   |  |  |  |
| <sup>1</sup> Type: C=Co | oncentration, D=Dep                      | oletion. RM=Re  | educed Matrix. MS    | =Masked              | d Sand Gr          | ains.             | <sup>2</sup> Location: PL                        | =Pore Lining, M=Matrix.                 |  |  |  |
| Hydric Soil             |  |                 | ,                    |                      |                    |                   |  | Problematic Hydric Soils <sup>3</sup> : |  |  |  |
| Histosol                | (A1)                                     |                 | Sandy G              | Sleyed Ma            | atrix (S4)         |                   | Coast Prair                                      | rie Redox (A16)                         |  |  |  |
| Histic Ep               | oipedon (A2)                             |                 | Sandy F              | Redox (S5            | 5)                 |                   | Dark Surfa                                       | ce (S7)                                 |  |  |  |
| ı —                     | stic (A3)                                |                 |                      | Matrix (S            | ,                  |                   |  | nese Masses (F12)                       |  |  |  |
|                         | en Sulfide (A4)                          |                 |                      |                      | neral (F1)         |                   |  | ow Dark Surface (TF12)                  |  |  |  |
|                         | d Layers (A5)                            |                 |                      | Gleyed Ma            |                    |                   | Other (Exp                                       | lain in Remarks)                        |  |  |  |
| ı —                     | ick (A10)                                | ο (Λ11)         |                      | d Matrix (           |                    |                   |  |   |  |  |  |
| ı — ·                   | d Below Dark Surfac<br>ark Surface (A12) | æ (ATT)         | _                    | ark Surfa<br>Dark Si | irface (F7         | `                 | 3Indicators of h                                 | ydrophytic vegetation and               |  |  |  |
| _                       | fucky Mineral (S1)                       |                 |                      | epressio             | ,                  | ,                 |  | drology must be present,                |  |  |  |
|                         | icky Peat or Peat (S                     | 3)              |                      |                      | ()                 |                   |  | urbed or problematic.                   |  |  |  |
| Restrictive I           | Layer (if observed)                      | :               |                      |                      |                    |                   |  | -                                       |  |  |  |
| Type:                   |  |                 | _                    |                      |                    |                   |  | 4                                       |  |  |  |
| Depth (inc              | ches):                                   |                 | _                    |                      |                    |                   | Hydric Soil Pres                                 | sent? Yes No                            |  |  |  |
| Remarks:                |  |                 |                      |                      |                    |                   |  |   |  |  |  |
| Hydric                  | soil present.                            |                 |                      |                      |                    |                   |  |   |  |  |  |
| HYDROLO                 | GY                                       |                 |                      |                      |                    |                   |  |   |  |  |  |
| Wetland Hyd             | drology Indicators                       | :               |                      |                      |                    |                   |  |   |  |  |  |
| Primary India           | cators (minimum of                       | one is required | l; check all that ap | ply)                 |                    |                   | Secondary In                                     | dicators (minimum of two required)      |  |  |  |
| Surface                 | Water (A1)                               |                 | ✓ Water-Stai         | ned Leav             | es (B9)            |                   |  | Soil Cracks (B6)                        |  |  |  |
|                         | ater Table (A2)                          |                 | Aquatic Fa           |                      | , ,                |                   | Surface Soil Cracks (B6) Drainage Patterns (B10) |   |  |  |  |
| Saturation              | on (A3)                                  |                 | True Aqua            | tic Plants           | (B14)              |                   | Dry-Season Water Table (C2)                      |   |  |  |  |
| Water M                 | larks (B1)                               |                 | Hydrogen             | Sulfide O            | dor (C1)           |                   | Crayfish   | Burrows (C8)                            |  |  |  |
| Sedimer                 | nt Deposits (B2)                         |                 | Oxidized R           | hizosphe             | res on Liv         | ing Roots         | (C3) Saturation                                  | on Visible on Aerial Imagery (C9)       |  |  |  |
| Drift Dep               | oosits (B3)                              |                 | Presence of          | of Reduce            | ed Iron (C         | 4)                | Stunted  | or Stressed Plants (D1)                 |  |  |  |
| Algal Ma                | at or Crust (B4)                         |                 | Recent Iro           | n Reducti            | on in Tille        | d Soils (C6       | 6) 👱 Geomor                                      | phic Position (D2)                      |  |  |  |
| Iron Dep                | oosits (B5)                              |                 | Thin Muck            | Surface (            | (C7)               |                   | ✓ FAC-Net  | utral Test (D5)                         |  |  |  |
| ı —                     | on Visible on Aerial                     |                 | Gauge or \           | Well Data            | (D9)               |                   |  |   |  |  |  |
| Sparsely                | Vegetated Concav                         | e Surface (B8)  | Other (Exp           | lain in Re           | emarks)            |                   |  |   |  |  |  |
| Field Obser             |  |                 |                      |                      |                    |                   |  |   |  |  |  |
| Surface Water           |  |                 | Depth (inc           |                      |                    |                   |  |   |  |  |  |
| Water Table             | Present?                                 | /es No          | Depth (inc           | ches):               |                    | _                 |  |   |  |  |  |
| Saturation P            |  | /es No          | Depth (inc           | ches):               |                    | _ Wetl            | and Hydrology Pre                                | esent? Yes No                           |  |  |  |
|                         | corded Data (strean                      | n gauge, monit  | oring well, aerial p | hotos, pr            | evious ins         | spections),       | if available:                                    |   |  |  |  |
| Remarks:                |  |                 |                      |                      |                    |                   |  |   |  |  |  |
|                         | l hydrology                              | present         |                      |                      |                    |                   |  |   |  |  |  |
|                         | , a. 5.09 y                              | p1000116.       |                      |                      |                    |                   |  |   |  |  |  |
|                         |  |                 |                      |                      |                    |                   |  |   |  |  |  |

| Project/Site: AEP Fostoria to Lima                               | (               | City/Cou | unty: Findl   | ay/Hancock                                     | Sampling Date: 2022-07-01  |
|--|-----------------|----------|---------------|--|--|
| Applicant/Owner: AEP   |                 |          |               | State: Ohio                                    | Sampling Point: 1-U/V UPL  |
| Investigator(s): Beth Hollinden, Chris Davisson                  | (               | Section, | , Township,   | Range: OH01 T2N R10E                           | SN36   |
| Landform (hillslope, terrace, etc.): Flat                        |                 |          | Local re      | lief (concave, convex, none):                  | None   |
| Slope (%): 0 Lat: 41.082751                                      | ι               | _ong: _  | 83.6620       | 36   | Datum: WGS 84  |
| Soil Map Unit Name: DfA  |                 |          |               | NWI classification                             | ation: N/A   |
| Are climatic / hydrologic conditions on the site typical for thi | is time of yea  | ar? Yes  | s N           | o (If no, explain in Re                        | emarks.)   |
| Are Vegetation, Soil, or Hydrology :                             | significantly o | disturbe | ed? A         | re "Normal Circumstances" p                    | present? Yes No  |
| Are Vegetation, Soil, or Hydrology                               | naturally prol  | blematic | c? (I         | f needed, explain any answer                   | rs in Remarks.)  |
| SUMMARY OF FINDINGS - Attach site map                            | showing         | samp     | ling poin     | t locations, transects                         | , important features, etc.   |
| Hydrophytic Vegetation Present? Yes N                            | 10              |          |               |  |  |
| Hydric Soil Present? Yes N                                       | lo              | l:       | s the Samp    |  | _  |
| Wetland Hydrology Present? Yes N                                 | lo              | v        | within a We   | tland? Yes                                     | No   |
| Remarks:   |                 |          |               |  |  |
| Upland point for Wetland 1-U and \                               | <b>Netland</b>  | 1-V      | •             |  |  |
| VEGETATION – Use scientific names of plants                      |                 |          |               |  |  |
|  | Absolute        | Domin    | nant Indicate | or Dominance Test works                        | sheet:   |
| Tree Stratum (Plot size: 30 ft r ) 1.                            |                 |          | es? Statu     | Number of Dominant Sp<br>That Are OBL, FACW, o |  |
| 2  |                 |          |               | Total Number of Domina                         | ant  |
| 3  |                 |          |               | Species Across All Strat                       | A  |
| 4  |                 |          |               | Percent of Dominant Sp                         | pecies   |
| 5  |                 |          |               | That Are OBL, FACW, o                          | or FAC: <u>25</u> (A/B)  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                      |                 | = Total  | Cover         | Prevalence Index work                          | ksheet:  |
| 1. Elaeagnus umbellata   | 10              |          |               | Total % Cover of:                              |  |
| 2  |                 |          |               |  | x 1 = <u>0</u>   |
| 3  |                 |          |               | <u> </u>                                       | x 2 = <u>20</u>  |
| 4  |                 |          |               | <u> </u>                                       | x 3 = <u>0</u>   |
| 5  |                 |          |               | FACU species 100                               | x 4 = 400  |
| Herb Stratum (Plot size: 5 ft r )                                | 10%             | = Total  | Cover         | UPL species 0                                  | x 5 = 0  |
| 1. Solidago canadensis   | 50              | ~        | FACU          | Column Totals: 110                             | (A) <u>420</u> (B)   |
| 2. Festuca subverticillata                                       | 20              |          | FACU          | Prevalence Index                               | = B/A = 3.82   |
| 3. Rubus allegheniensis  | 20              | ~        | FACU          | Hydrophytic Vegetatio                          | on Indicators:   |
| 4. Cornus florida  | 10              |          | FACU          | 1 - Rapid Test for H                           | lydrophytic Vegetation   |
| 5  |                 |          |               | 2 - Dominance Test                             |  |
| 6  |                 |          |               | 3 - Prevalence Inde                            |  |
| 7  |                 |          |               | 4 - Morphological A                            | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |
| 8  |                 |          |               |  | phytic Vegetation <sup>1</sup> (Explain)                               |
| 9  |                 |          |               | _   110blematic riyarop                        | mytto vegetation (Explain)   |
| 10   |                 |          |               | Indicators of hydric soil                      | I and wetland hydrology must   |
| Woody Vine Stratum (Plot size: 30 ft r )                         | 100%_           | = Total  | Cover         | be present, unless distu                       |  |
| 1. Vitis riparia   | 10              | ~        | FACV          | V Hudronbutio                                  |  |
| 2.   |                 |          |               | Hydrophytic<br>Vegetation                      |  |
|  | 10%             | = Total  | Cover         | Present? Yes                                   | s No   |
| Remarks: (Include photo numbers here or on a separate            | sheet.)         |          |               |  |  |
| Hydrophytic vegetation absent.                                   |                 |          |               |  |  |
| , ,  |                 |          |               |  |  |

Soll Sampling Point: 1-U/V UPL

| Profile Desc  | ription: (Describe                      | to the depth   | needed to docun      | nent the i             | indicator         | or confirm        | n the absence of in         | idicators.)   |  |  |
|---------------|---|----------------|----------------------|------------------------|-------------------|-------------------|-----------------------------|---|--|--|
| Depth         | Matrix                                  |                | Redo                 | x Feature              | s                 |                   |                             |   |  |  |
| (inches)      | Color (moist)                           | %              | Color (moist)        | %                      | Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                     | Remarks   |  |  |
| 0 - 20        | 10YR 7/2                                | 95 1           | 0YR 5/6              | 5                      | <u> </u>          | <u>M</u>          | Silty Clay                  |   |  |  |
| -             |   |                |                      |                        |                   |                   |                             |   |  |  |
|               |   |                |                      |                        |                   |                   |                             |   |  |  |
|               |   |                |                      |                        |                   |                   |                             |   |  |  |
| l ——          |   |                |                      |                        |                   |                   |                             |   |  |  |
|               |   |                |                      |                        |                   |                   |                             |   |  |  |
|               |   |                |                      |                        |                   |                   |                             |   |  |  |
| _             |   |                |                      |                        |                   |                   |                             |   |  |  |
| ¹Type: C=Co   | oncentration, D=Dep                     | oletion RM=R   | educed Matrix MS     | =Masker                | d Sand Gr         | ains              | 2l ocation: Pl              | =Pore Lining, M=Matrix.                               |  |  |
| Hydric Soil   |   | Jiction, Min-M | caacca Matrix, Mc    | )—WIGSKCC              | a Garia Gi        | airis.            |                             | Problematic Hydric Soils <sup>3</sup> :               |  |  |
| Histosol      | (A1)                                    |                | Sandy G              | Sleyed Ma              | atrix (S4)        |                   |                             | ie Redox (A16)  |  |  |
| ı —           | pipedon (A2)                            |                |                      | Redox (S5              |                   |                   | Dark Surfac                 |   |  |  |
| Black Hi      | stic (A3)                               |                | Stripped             | Matrix (S              | 36)               |                   | Iron-Manga                  | nese Masses (F12)                                     |  |  |
| Hydroge       | n Sulfide (A4)                          |                | Loamy N              | Aucky Mir              | neral (F1)        |                   |                             | w Dark Surface (TF12)                                 |  |  |
| ı —           | d Layers (A5)                           |                |                      | Gleyed Ma              |                   |                   | Other (Expl                 | ain in Remarks)                                       |  |  |
| ı —           | ick (A10)                               | (* 4 4 4)      |                      | d Matrix (             | -                 |                   |                             |   |  |  |
| ı — ·         | d Below Dark Surface                    | ce (A11)       | _                    | ark Surfa              |                   | `                 | 31                          |   |  |  |
| _             | ark Surface (A12)<br>lucky Mineral (S1) |                |                      | a Dark St<br>Depressio | ırface (F7        | )                 |                             | ydrophytic vegetation and<br>łrology must be present, |  |  |
|               | icky Peat or Peat (S                    | 3)             | Redox L              | zepi essio             | 115 (1-0)         |                   | •                           | urbed or problematic.                                 |  |  |
|               | Layer (if observed)                     |                |                      |                        |                   |                   |                             | and or problemate.                                    |  |  |
| 1             | ,                                       |                |                      |                        |                   |                   |                             |   |  |  |
|               | ches):                                  |                | _                    |                        |                   |                   | Hydric Soil Pres            | sent? Yes No  |  |  |
| Remarks:      |   |                |                      |                        |                   |                   |                             |   |  |  |
| Hydric        | soil present.                           |                |                      |                        |                   |                   |                             |   |  |  |
| HYDROLO       | GY                                      |                |                      |                        |                   |                   |                             |   |  |  |
| Wetland Hyd   | drology Indicators                      | :              |                      |                        |                   |                   |                             |   |  |  |
| 1             | cators (minimum of                      |                | l; check all that ap | ply)                   |                   |                   | Secondary In                | dicators (minimum of two required)                    |  |  |
|               | Water (A1)                              |                | Water-Stai           |                        | es (B9)           |                   | Surface                     | Soil Cracks (B6)                                      |  |  |
| _             | iter Table (A2)                         |                | Aquatic Fa           |                        | , ,               |                   | Orange Patterns (B10)       |   |  |  |
| Saturation    | on (A3)                                 |                | True Aqua            | tic Plants             | (B14)             |                   | Dry-Season Water Table (C2) |   |  |  |
| Water M       | arks (B1)                               |                | Hydrogen             | Sulfide O              | dor (C1)          |                   | Crayfish                    | Burrows (C8)  |  |  |
| Sedimer       | nt Deposits (B2)                        |                | Oxidized R           | hizosphe               | res on Liv        | ing Roots         | (C3) Saturatio              | on Visible on Aerial Imagery (C9)                     |  |  |
| Drift Dep     | oosits (B3)                             |                | Presence of          | of Reduce              | ed Iron (C        | 4)                | Stunted of                  | or Stressed Plants (D1)                               |  |  |
| Algal Ma      | at or Crust (B4)                        |                | Recent Iro           | n Reducti              | on in Tille       | d Soils (C        | 6) Geomorp                  | phic Position (D2)                                    |  |  |
| Iron Dep      | oosits (B5)                             |                | Thin Muck            | Surface (              | (C7)              |                   | FAC-Neu                     | utral Test (D5)                                       |  |  |
| Inundation    | on Visible on Aerial                    | Imagery (B7)   | Gauge or \           | Well Data              | (D9)              |                   |                             |   |  |  |
| Sparsely      | Vegetated Concav                        | e Surface (B8) | Other (Exp           | lain in Re             | emarks)           |                   |                             |   |  |  |
| Field Obser   |   |                | _                    |                        |                   |                   |                             |   |  |  |
| Surface Water |   |                | Depth (inc           |                        |                   |                   |                             |   |  |  |
| Water Table   | Present?                                | /es No         | Depth (inc           | ches):                 |                   | _                 |                             |   |  |  |
| Saturation P  |   | /es No         | Depth (inc           | ches):                 |                   | Wet               | land Hydrology Pre          | esent? Yes No   |  |  |
|               | corded Data (strean                     | n gauge, monit | oring well, aerial p | hotos, pr              | evious ins        | spections),       | , if available:             |   |  |  |
| Damester      |   |                |                      |                        |                   |                   |                             |   |  |  |
| Remarks:      | l budualaa                              | oboc::+        |                      |                        |                   |                   |                             |   |  |  |
| vvetiand      | l hydrology                             | apsent.        |                      |                        |                   |                   |                             |   |  |  |
|               |   |                |                      |                        |                   |                   |                             |   |  |  |

| Project/Site: AEP Fostoria to Lima                                | C             | city/County      | <sub>y:</sub> <u>Findlay/</u> | Hancock  | Sampling Date: 2022-07-01  |  |  |  |
|---|---------------|------------------|-------------------------------|--|--|--|--|--|
| Applicant/Owner: AEP  |               |                  |                               | State: Ohio  | Sampling Point: 1-V  |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                   | 8             | Section, To      | ownship, Rar                  | nge: OH01 T2N R10E                                 | SN36   |  |  |  |
|   |               |                  |                               | (concave, convex, none):                           | Concave  |  |  |  |
| Slope (%): 1 Lat: 41.082827                                       | L             | .ong: <u>-83</u> | 3.661814                      |  | Datum: WGS 84  |  |  |  |
| Soil Map Unit Name: DfA   |               |                  |                               | NWI classification                                 | ation: N/A   |  |  |  |
| Are climatic / hydrologic conditions on the site typical for this | time of yea   | r? Yes _         | <u>✓</u> No _                 | (If no, explain in Re                              | emarks.)   |  |  |  |
| Are Vegetation, Soil, or Hydrology sig                            | gnificantly d | listurbed?       | Are "I                        | Normal Circumstances" p                            | oresent? Yes No  |  |  |  |
| Are Vegetation, Soil, or Hydrology na                             | turally prob  | olematic?        | (If ne                        | eded, explain any answer                           | rs in Remarks.)  |  |  |  |
| SUMMARY OF FINDINGS - Attach site map s                           | howing        | samplir          | ng point lo                   | ocations, transects                                | , important features, etc.   |  |  |  |
| Hydrophytic Vegetation Present? Yes No                            |               |                  |                               |  |  |  |  |  |
| Hydric Soil Present? Yes No                                       |               |                  | he Sampled                    |  |  |  |  |  |
| Wetland Hydrology Present? Yes No                                 |               | with             | hin a Wetlan                  | d? Yes   | No   |  |  |  |
| Remarks:  |               |                  |                               |  |  |  |  |  |
| PEM. ORAM score of 26.  |               |                  |                               |  |  |  |  |  |
| VEGETATION – Use scientific names of plants.                      |               |                  |                               |  |  |  |  |  |
|   | Absolute      | Dominan          | t Indicator                   | Dominance Test works                               | sheet:   |  |  |  |
|   |               |                  | Status_                       | Number of Dominant Sp                              | pecies   |  |  |  |
| 1   |               |                  | I                             | That Are OBL, FACW, o                              | or FAC: 2 (A)  |  |  |  |
| 3   |               |                  |                               | Total Number of Domina<br>Species Across All Strat |  |  |  |  |
| 4   |               |                  | I                             |  |  |  |  |  |
| 5   |               |                  |                               | Percent of Dominant Sp<br>That Are OBL, FACW, of   |  |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                       |               | = Total Co       | ver                           | Prevalence Index work                              | ksheet:  |  |  |  |
| 1   |               |                  |                               | Total % Cover of:                                  |  |  |  |  |
| 2.  |               |                  |                               | OBL species 60                                     | x 1 = 60   |  |  |  |
| 3.  |               |                  |                               |  | x 2 = 60   |  |  |  |
| 4   |               |                  | I                             | FAC species 10                                     | x 3 = <u>30</u>  |  |  |  |
| 5   |               |                  |                               | FACU species 0                                     | x 4 = <u>0</u>   |  |  |  |
| E ft v  | =             | = Total Co       | ver                           | UPL species 0                                      | x 5 = <u>0</u>   |  |  |  |
| Herb Stratum (Plot size: 5 ft r )  1. Carex squarrosa             | 40            | ~                | OBL                           | Column Totals: 100                                 | (A) <u>150</u> (B)   |  |  |  |
| 2. Bidens frondosa  | 30            |                  | FACW                          | Prevalence Index                                   | = B/A = 1.50   |  |  |  |
| 3. Apocynum cannabinum  | 10            |                  | FAC                           | Hydrophytic Vegetatio                              |  |  |  |  |
| 4. Eleocharis palustris   | 10            |                  | OBL                           | ✓ 1 - Rapid Test for H                             | lydrophytic Vegetation   |  |  |  |
| 5. Scirpus cyperinus  | 10            |                  | OBL                           | ✓ 2 - Dominance Test                               | t is >50%  |  |  |  |
| 6   |               |                  |                               | 3 - Prevalence Inde                                |  |  |  |  |
| 7   |               |                  |                               | 4 - Morphological A                                | Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet) |  |  |  |
| 8   |               |                  | . ——                          |  | phytic Vegetation <sup>1</sup> (Explain)                               |  |  |  |
| 9   |               |                  | - ——                          |  | my to regetation (Explain)   |  |  |  |
| 10  | 100%          | T.1.10           | ·                             |  | I and wetland hydrology must   |  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                          | 100%          | = Total Co       | ver                           | be present, unless distu                           | irbed or problematic.  |  |  |  |
| 1   |               |                  |                               | Hydrophytic  |  |  |  |  |
| 2   |               |                  |                               | Vegetation   | s No   |  |  |  |
|   |               | = Total Co       | ver                           | rieselli: Tes                                      | , 140  |  |  |  |
| Remarks: (Include photo numbers here or on a separate sh          | neet.)        |                  |                               |  |  |  |  |  |
| Hydrophytic vegetation present.                                   |               |                  |                               |  |  |  |  |  |
|   |               |                  |                               |  |  |  |  |  |

SOIL Sampling Point: 1-V

| Profile Desc                 | ription: (Describe                    | to the depth   | needed to docur        | nent the                 | indicator          | or confirm        | n the absence of i         | ndicators.)                             |
|------------------------------|---------------------------------------|----------------|------------------------|--------------------------|--------------------|-------------------|----------------------------|---|
| Depth                        | Matrix                                |                |                        | x Feature                |                    |                   |                            |   |
| (inches)                     | Color (moist)                         | %              | Color (moist)          | %                        | _Type <sup>1</sup> | _Loc <sup>2</sup> | Texture                    | Remarks                                 |
| 0 - 20                       | 10YR 5/2                              | 90             | 10YR 5/6               | 10                       | <u>C</u>           | <u>M</u>          | Silty Clay                 |   |
| -                            |                                       |                |                        |                          |                    |                   |                            |   |
|                              |                                       |                |                        |                          |                    |                   |                            |   |
|                              |                                       |                |                        |                          |                    |                   |                            |   |
| l — -                        |                                       |                |                        |                          |                    |                   |                            |   |
|                              |                                       |                |                        |                          |                    |                   |                            |   |
|                              |                                       |                |                        |                          |                    |                   |                            |   |
| -                            |                                       |                |                        |                          |                    |                   |                            |   |
| <sup>1</sup> Type: C=C       | oncentration, D=Dep                   | oletion. RM=F  | Reduced Matrix, MS     | S=Maske                  | - ———<br>d Sand Gr | ains.             | <sup>2</sup> Location: P   | L=Pore Lining, M=Matrix.                |
| Hydric Soil                  |                                       | ,              |                        |                          |                    |                   |                            | Problematic Hydric Soils <sup>3</sup> : |
| Histosol                     | (A1)                                  |                | Sandy 0                | Gleyed Ma                | atrix (S4)         |                   | Coast Pra                  | irie Redox (A16)                        |
| Histic E                     | oipedon (A2)                          |                | Sandy F                | Redox (S                 | 5)                 |                   | Dark Surfa                 | ace (S7)                                |
| ı —                          | istic (A3)                            |                |                        | d Matrix (               | ,                  |                   |                            | anese Masses (F12)                      |
| 1 - ' "                      | en Sulfide (A4)                       |                |                        | -                        | neral (F1)         |                   |                            | ow Dark Surface (TF12)                  |
|                              | d Layers (A5)                         |                |                        |                          | atrix (F2)         |                   | Other (Exp                 | plain in Remarks)                       |
| _                            | ıck (A10)<br>d Below Dark Surfac      | o (Λ11)        | ✓ Deplete              | d Matrix (<br>Dark Surfa |                    |                   |                            |   |
| ı —                          | ark Surface (A12)                     | æ (A11)        | _                      |                          | urface (F7         | )                 | <sup>3</sup> Indicators of | hydrophytic vegetation and              |
| _                            | flucky Mineral (S1)                   |                |                        | Depressio                | ,                  | ,                 |                            | drology must be present,                |
| 5 cm Mu                      | ıcky Peat or Peat (S                  | 3)             | _                      |                          | ` ′                |                   |                            | turbed or problematic.                  |
| Restrictive                  | Layer (if observed)                   | :              |                        |                          |                    |                   |                            |   |
| Type:                        |                                       |                | _                      |                          |                    |                   | I hadala Gall Bas          |   |
| Depth (in                    | ches):                                |                | _                      |                          |                    |                   | Hydric Soil Pre            | esent? Yes No                           |
| Remarks:                     |                                       |                |                        |                          |                    |                   | 1                          |   |
| Uvdric                       | soil present.                         |                |                        |                          |                    |                   |                            |   |
| Trydite :                    | son present.                          |                |                        |                          |                    |                   |                            |   |
|                              |                                       |                |                        |                          |                    |                   |                            |   |
|                              |                                       |                |                        |                          |                    |                   |                            |   |
| HYDROLO                      | GY                                    |                |                        |                          |                    |                   |                            |   |
| Wetland Hy                   | drology Indicators                    | :              |                        |                          |                    |                   |                            |   |
| Primary India                | cators (minimum of                    | one is require | d; check all that ap   | ply)                     |                    |                   | Secondary I                | ndicators (minimum of two required)     |
| Surface                      | Water (A1)                            |                | Water-Sta              | ined Leav                | /es (B9)           |                   | Surface                    | Soil Cracks (B6)                        |
| High Wa                      | ater Table (A2)                       |                | Aquatic Fa             | auna (B13                | 3)                 |                   | Drainag                    | e Patterns (B10)                        |
| Saturation                   | on (A3)                               |                | True Aqua              | itic Plants              | (B14)              |                   |                            | ason Water Table (C2)                   |
| Water M                      | larks (B1)                            |                | Hydrogen               | Sulfide O                | dor (C1)           |                   | Crayfish                   | n Burrows (C8)                          |
| Sedimer                      | nt Deposits (B2)                      |                | Oxidized F             |                          |                    | -                 | (C3) Saturati              | on Visible on Aerial Imagery (C9)       |
| Drift De                     | posits (B3)                           |                | Presence               |                          | •                  | •                 |                            | or Stressed Plants (D1)                 |
|                              | at or Crust (B4)                      |                | Recent Iro             |                          |                    | d Soils (C        |                            | rphic Position (D2)                     |
| I — :                        | posits (B5)                           |                | Thin Muck              |                          | ` '                |                   | <u>✓</u> FAC-Ne            | eutral Test (D5)                        |
| ı —                          | on Visible on Aerial                  |                |                        |                          |                    |                   |                            |   |
|                              | y Vegetated Concav                    | e Surface (B   | B) Other (Exp          | plain in Re              | emarks)            |                   |                            |   |
| Field Obser                  |                                       |                | <b>.</b>               |                          |                    |                   |                            |   |
| Surface Wat                  |                                       |                | Depth (in              |                          |                    |                   |                            |   |
| Water Table                  |                                       |                | Depth (in              |                          |                    |                   |                            |   |
| Saturation P                 |                                       | /es N          | o Depth (in            | ches):                   |                    | Wetl              | and Hydrology P            | resent? Yes No                          |
| (includes cap<br>Describe Re | corded Data (strean                   | n gauge, mon   | itoring well, aerial į | photos, pi               | revious ins        | spections),       | if available:              |   |
|                              |                                       |                |                        |                          |                    |                   |                            |   |
| Remarks:                     |                                       |                |                        |                          |                    |                   |                            |   |
| Wetland                      | l hydrology                           | present        |                        |                          |                    |                   |                            |   |
|                              | · · · · · · · · · · · · · · · · · · · |                |                        |                          |                    |                   |                            |   |
|                              |                                       |                |                        |                          |                    |                   |                            |   |

## WETLAND DETERMINATION DATA FORM - Midwest Region

| Project/Site: AEP Fostoria to Lima               |                | (                               | City/County: | Findlay/                                   | Hancock  | Sampling Date: 2               | 2022-07-01    |  |
|--|----------------|---------------------------------|--------------|--|--|--------------------------------|---------------|--|
| Applicant/Owner: AEP                             |                | State: Ohio Sampling Point: 1-W |              |  |  |                                |               |  |
| Investigator(s): Beth Hollinden, Chris D         | avisson        | ;                               | Section, To  | ection, Township, Range: OH01 T1N R10E SN3 |  |                                |               |  |
| Landform (hillslope, terrace, etc.): Depress     |                |                                 |              |  |  |                                |               |  |
| Slope (%): 2 Lat: 41.066649                      |                | ו                               | _ong:83.     | .695703                                    |  | Datum: WGS 84                  | 1             |  |
| Soil Map Unit Name: Gwe1B1                       |                |                                 |              |  | NWI classific  | ation: N/A                     |               |  |
| Are climatic / hydrologic conditions on the site | time of year   |                                 |              |  |  |                                |               |  |
| Are Vegetation, Soil, or Hydro                   | gnificantly o  | disturbed?                      | Are "        | Normal Circumstances" p                    | resent? Yes  | No                             |               |  |
| Are Vegetation, Soil, or Hydro                   | logy na        | aturally prol                   | blematic?    | (If ne                                     | eded, explain any answe  | rs in Remarks.)                |               |  |
| SUMMARY OF FINDINGS - Attack                     | site map s     | showing                         | sampling     | g point le                                 | ocations, transects  | , important fea                | atures, etc.  |  |
| Hydrophytic Vegetation Present?                  | esNo           | )                               |              |  |  |                                |               |  |
|  | es No          |                                 |              | e Sampled                                  |  |                                |               |  |
|  | esNo           | <u> </u>                        | with         | in a Wetlan                                | nd? Yes  | No                             |               |  |
| Remarks:   |                |                                 |              |  |  |                                |               |  |
| PEM. Bordered by man-made                        | berms. L       | ocated                          | betwee       | en two p                                   | ower facilities. (   | JRAM score                     | of 23.        |  |
| VEGETATION – Use scientific name                 | e of plants    |                                 |              |  |  |                                |               |  |
|  |                | Absolute                        | Dominant     | Indicator                                  | Dominance Test work  | sheet:                         |               |  |
| Tree Stratum (Plot size: 30 ft r                 | )              |                                 | Species?     | Status                                     | Number of Dominant Sp  | pecies                         |               |  |
| 1  |                |                                 |              |  | That Are OBL, FACW,  | or FAC: 3                      | (A)           |  |
| 2  |                |                                 |              |  | Total Number of Domin  |                                |               |  |
| 3  |                |                                 |              |  | Species Across All Stra  | ta: <u>3</u>                   | (B)           |  |
| 4<br>5.  |                |                                 |              |  | Percent of Dominant Sp   |                                | (4.47)        |  |
|  |                |                                 | = Total Cov  | er   | That Are OBL, FACW, o  | or FAC: 100                    | (A/B)         |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r        | )              |                                 |              |  | Prevalence Index wor   |                                |               |  |
| 1  |                |                                 |              |  | Total % Cover of:  |                                | by:           |  |
| 2  |                |                                 |              |  | OBL species 30   | x 1 = 30                       | —             |  |
| 3  |                |                                 |              |  | FACW species 70 FAC species 0                                      | x = 140<br>x = 0               | —             |  |
| 4  |                |                                 |              |  | FACU species 0   | x 3 = 0<br>x 4 = 0             |               |  |
| ö  |                |                                 | = Total Cov  | er   | UPL species 0  |                                |               |  |
| Herb Stratum (Plot size: 5 ft r                  | )              |                                 |              |  | Column Totals: 100   | (A) 170                        | (B)           |  |
| 1. Phalaris arundinacea                          |                | 50                              |              | FACW                                       |  |                                |               |  |
| 2. Juncus torreyi                                |                | 20                              | <u> </u>     | FACW<br>OBL                                | Prevalence Index   |                                |               |  |
| 3. Scirpus atrovirens 4. Carex stricta           |                | 10                              |              | OBL  | Hydrophytic Vegetation ✓ 1 - Rapid Test for H                      |                                | ution         |  |
| _ · ·  |                |                                 |              | OBL_                                       | 2 - Dominance Tes  |                                | lion          |  |
| 5  |                |                                 |              |  | 3 - Prevalence Inde  |                                |               |  |
| 7  |                |                                 |              |  | 4 - Morphological A  |                                | de supporting |  |
| 8  |                |                                 |              |  |  | s or on a separate s           | ,             |  |
| 9.   |                |                                 |              |  | Problematic Hydrop   | ohytic Vegetation <sup>1</sup> | (Explain)     |  |
| 10   |                |                                 |              |  | 1  |                                |               |  |
| Woody Vine Stratum (Plot size: 30 ft r           | )              | 100%                            | = Total Cov  | er   | <sup>1</sup> Indicators of hydric soil<br>be present, unless distu |                                |               |  |
| 1  |                |                                 |              |  | Hydrophytic  |                                |               |  |
| 2.   |                |                                 |              |  | Vegetation   | <b>v</b>                       |               |  |
|  |                |                                 | = Total Cov  | er   | Present? Yes   | s No                           |               |  |
| Remarks: (Include photo numbers here or o        | n a separate s | heet.)                          |              |  |  |                                |               |  |
| Hydrophytic vegetation pro                       | esent.         |                                 |              |  |  |                                |               |  |
|  |                |                                 |              |  |  |                                |               |  |

SOIL Sampling Point: 1-W

| Profile Desc               | ription: (Describe               | to the depth    | needed to docun      | nent the                 | indicator           | or confin         | m the absence o        | f indicators.)                             |
|----------------------------|----------------------------------|-----------------|----------------------|--------------------------|---------------------|-------------------|------------------------|--|
| Depth                      | Matrix                           |                 | Redo                 | x Feature                | es                  |                   |                        |  |
| (inches)                   | Color (moist)                    | %               | Color (moist)        | %                        | Type <sup>1</sup> _ | _Loc <sup>2</sup> | Texture                | Remarks                                    |
| 0 - 20                     | 10YR 5/2                         | 90 10           | 0YR 6/6              | 10                       | <u>C</u>            | PL / M            | Silty Clay             |  |
| -                          |                                  |                 |                      |                          |                     |                   |                        |  |
|                            |                                  |                 |                      |                          |                     |                   |                        |  |
|                            |                                  |                 |                      |                          |                     |                   |                        |  |
| l ——                       |                                  |                 |                      |                          | - ——                |                   |                        |  |
|                            |                                  |                 |                      |                          |                     |                   |                        |  |
|                            |                                  |                 |                      |                          |                     |                   |                        |  |
| -                          |                                  |                 |                      |                          |                     |                   |                        |  |
| <sup>1</sup> Type: C=Ce    | oncentration, D=De               | oletion. RM=Re  | educed Matrix. MS    | S=Maske                  | d Sand Gr           | ains.             | <sup>2</sup> Location: | PL=Pore Lining, M=Matrix.                  |
| Hydric Soil                |                                  |                 | ,                    |                          |                     |                   |                        | or Problematic Hydric Soils <sup>3</sup> : |
| Histosol                   | (A1)                             |                 | Sandy G              | Sleyed Ma                | atrix (S4)          |                   | Coast Pr               | rairie Redox (A16)                         |
| Histic Ep                  | oipedon (A2)                     |                 | Sandy F              | Redox (St                | 5)                  |                   | Dark Su                | rface (S7)                                 |
| ı —                        | stic (A3)                        |                 |                      | Matrix (                 | ,                   |                   | _                      | nganese Masses (F12)                       |
|                            | en Sulfide (A4)                  |                 |                      |                          | neral (F1)          |                   |                        | allow Dark Surface (TF12)                  |
| ı —                        | d Layers (A5)                    |                 |                      |                          | atrix (F2)          |                   | Other (E               | xplain in Remarks)                         |
| ı —                        | ick (A10)<br>d Below Dark Surfac | co (Δ11)        |                      | d Matrix (<br>Dark Surfa |                     |                   |                        |  |
| ı —                        | ark Surface (A12)                | 26 (A11)        | _                    |                          | urface (F7          | )                 | 3Indicators o          | of hydrophytic vegetation and              |
| _                          | fucky Mineral (S1)               |                 |                      | Depressio                | ,                   | ,                 |                        | hydrology must be present,                 |
|                            | icky Peat or Peat (S             | 3)              | _                    |                          | , ,                 |                   |                        | isturbed or problematic.                   |
| Restrictive I              | Layer (if observed)              | :               |                      |                          |                     |                   |                        |  |
| Type:                      |                                  |                 | _                    |                          |                     |                   | Unadaia Cail D         |  |
| Depth (in                  | ches):                           |                 | _                    |                          |                     |                   | Hydric Soil P          | resent? Yes No                             |
| Remarks:                   |                                  |                 |                      |                          |                     |                   |                        |  |
| Hydric                     | soil present.                    |                 |                      |                          |                     |                   |                        |  |
| HYDROLO                    | GY                               |                 |                      |                          |                     |                   |                        |  |
| Wetland Hy                 | drology Indicators               | :               |                      |                          |                     |                   |                        |  |
| Primary India              | cators (minimum of               | one is required | l; check all that ap | ply)                     |                     |                   | Secondary              | / Indicators (minimum of two required)     |
| Surface                    | Water (A1)                       |                 | Water-Stai           | ned Leav                 | /es (B9)            |                   | Surfac                 | ce Soil Cracks (B6)                        |
| High Wa                    | ater Table (A2)                  |                 | Aquatic Fa           | una (B13                 | 3)                  |                   | Draina                 | age Patterns (B10)                         |
| Saturation                 | on (A3)                          |                 | True Aqua            | tic Plants               | (B14)               |                   | Dry-S                  | eason Water Table (C2)                     |
| Water M                    | larks (B1)                       |                 | Hydrogen             | Sulfide O                | dor (C1)            |                   | Crayfi                 | sh Burrows (C8)                            |
| Sedimer                    | nt Deposits (B2)                 |                 | Oxidized R           | Rhizosphe                | eres on Liv         | ing Roots         | (C3) Satura            | ation Visible on Aerial Imagery (C9)       |
| Drift Dep                  | posits (B3)                      |                 | Presence             | of Reduce                | ed Iron (C          | 4)                | Stunte                 | ed or Stressed Plants (D1)                 |
| -                          | at or Crust (B4)                 |                 | Recent Iro           | n Reduct                 | ion in Tille        | d Soils (C        | · —                    | orphic Position (D2)                       |
| I —                        | oosits (B5)                      |                 | Thin Muck            |                          |                     |                   | ✓ FAC-N                | Neutral Test (D5)                          |
| ı —                        | on Visible on Aerial             |                 | Gauge or \           |                          |                     |                   |                        |  |
|                            | / Vegetated Concav               | e Surface (B8)  | Other (Exp           | lain in Re               | emarks)             |                   |                        |  |
| Field Obser                |                                  |                 | <b>V</b>             |                          |                     |                   |                        |  |
| Surface Wat                |                                  |                 | Depth (inc           |                          |                     |                   |                        |  |
| Water Table                |                                  |                 | Depth (inc           |                          |                     |                   |                        |  |
| Saturation P (includes car |                                  | res No          | Depth (inc           | ches): 14                |                     | Wet               | land Hydrology         | Present? Yes No                            |
|                            | corded Data (stream              | n gauge, monit  | oring well, aerial p | photos, pi               | revious ins         | spections)        | , if available:        |  |
| Remarks:                   |                                  |                 |                      |                          |                     |                   |                        |  |
|                            | l hydrology                      | nracant         |                      |                          |                     |                   |                        |  |
| vvetiailo                  | l hydrology                      | present.        |                      |                          |                     |                   |                        |  |
|                            |                                  |                 |                      |                          |                     |                   |                        |  |

## WETLAND DETERMINATION DATA FORM – Midwest Region

| Project/Site: AEP Fostoria to Lima                              | (              | City/Co | ounty: | nty: Findlay/Hancock Sampling Date: 2022-0 |  |   |  |  |
|---|----------------|---------|--------|--|--|---|--|--|
| Applicant/Owner: AEP  |                |         |        |  | State: Ohio Sampling Point: 1-W UPL            |   |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                 |                | Sectio  | n, Tov | wnship, Rar                                | nge: OH01 T1N R10E S                           | SN3   |  |  |
|   |                |         |        | ,  | ef (concave, convex, none): Convex             |   |  |  |
| Slope (%): 2 Lat: 41.066671                                     |                | Long:   | -83.   | .695599                                    |  | Datum: WGS 84   |  |  |
| Soil Map Unit Name: Gwe1B1                                      |                |         |        |  | NWI classifica                                 | ition: N/A  |  |  |
| Are climatic / hydrologic conditions on the site typical for th | is time of yea | ar? Ye  | es     | No _                                       | (If no, explain in Re                          | marks.)   |  |  |
| Are Vegetation, Soil, or Hydrology                              | significantly  | disturt | ed?    | Are "I                                     | Normal Circumstances" pr                       | esent? Yes No   |  |  |
| Are Vegetation, Soil, or Hydrology                              | naturally pro  | blema   | tic?   | (If ne                                     | eded, explain any answers                      | s in Remarks.)  |  |  |
| SUMMARY OF FINDINGS - Attach site map                           | showing        | sam     | pling  | g point lo                                 | ocations, transects,                           | important features, etc.  |  |  |
| Hydrophytic Vegetation Present? Yes N                           | No             |         |        |  |  |   |  |  |
| Hydric Soil Present? Yes N                                      |                |         |        | e Sampled                                  |  |   |  |  |
| Wetland Hydrology Present? Yes N                                | No             |         | withi  | in a Wetlan                                | id? Yes  | No  |  |  |
| Remarks:  |                |         |        |  |  |   |  |  |
| Upland point for Wetland 1-W. Mar                               | n-made         | ber     | m.     |  |  |   |  |  |
| VEGETATION – Use scientific names of plants                     |                |         |        |  |  |   |  |  |
| - Ose scientific flames of plants                               | Absolute       | Dom     | inant  | Indicator                                  | Dominance Test works                           | heet:   |  |  |
| Tree Stratum (Plot size: 30 ft r )                              | % Cover        | Spec    | cies?  |  | Number of Dominant Sp<br>That Are OBL, FACW, o | ecies   |  |  |
| 2.  |                |         |        |  | Total Number of Domina                         |   |  |  |
| 3   |                |         |        |  | Species Across All Strate                      |   |  |  |
| 4   |                |         |        |  | Percent of Dominant Spe                        | ecies   |  |  |
| 5   |                |         |        |  | That Are OBL, FACW, o                          |   |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                     |                | = Tota  | al Cov | er   | Prevalence Index work                          | sheet:  |  |  |
| 1. Elaeagnus umbellata  | _ 10           |         |        |  | Total % Cover of:                              |   |  |  |
| 2   |                |         |        |  |  | x 1 = 0   |  |  |
| 3   |                |         |        |  | · —  | x 2 = 0   |  |  |
| 4   |                |         |        |  |  | x 3 = 0   |  |  |
| 5   |                |         |        |  | _  | x 4 = 400   |  |  |
| Herb Stratum (Plot size: 5 ft r )                               | 10%            | = Tota  | al Cov | er   | UPL species 0 Column Totals: 100               | x = 0 (A) $400$ (B)   |  |  |
| 1. Dipsacus fullonum  | 50             |         | _      | FACU                                       | Column Totals: 100                             | (A) <u>400</u> (B)  |  |  |
| 2. Festuca rubra  | 30             |         |        | FACU                                       | Prevalence Index                               | = B/A = 4.00  |  |  |
| 3. Melilotus officinalis  | _ 20           |         | _      | FACU_                                      | Hydrophytic Vegetation                         | n Indicators:   |  |  |
| 4   |                |         |        |  | 1 - Rapid Test for H                           |   |  |  |
| 5   |                |         |        |  | 2 - Dominance Test                             |   |  |  |
| 6   |                |         |        |  | 3 - Prevalence Index                           |   |  |  |
| 7   |                |         |        |  | 4 - Morphological Adda in Remarks              | daptations <sup>1</sup> (Provide supporting or on a separate sheet) |  |  |
| 8   |                |         |        |  |  | hytic Vegetation <sup>1</sup> (Explain)                             |  |  |
| 9   |                |         |        |  |  |   |  |  |
| 10  | 100%           | = Tota  | al Cov |  |  | and wetland hydrology must  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                        |                | - 1018  | ai COV | CI .                                       | be present, unless distur                      | bed or problematic.   |  |  |
| 1   |                |         |        |  | Hydrophytic                                    |   |  |  |
| 2   |                |         |        |  | Vegetation<br>Present? Yes                     | No  |  |  |
| Demonto: (Include photo pumbara have as a second                | about \        | = Tota  | al Cov | er   | 163  |   |  |  |
| Remarks: (Include photo numbers here or on a separate           | sneet.)        |         |        |  |  |   |  |  |
| Hydrophytic vegetation absent.                                  |                |         |        |  |  |   |  |  |
|   |                |         |        |  |  |   |  |  |

SOIL Sampling Point: 1-W UPL

| Profile Des       | cription: (Describe                  | to the depti           | n needed to docur     | nent the              | indicator           | or confirm  | the absence of  | indicators.)                                  |
|-------------------|--------------------------------------|------------------------|-----------------------|-----------------------|---------------------|-------------|-----------------|---|
| Depth<br>(inches) | Matrix                               | <b>%</b>               |                       | x Feature             | S Type <sup>1</sup> | 1002        | Texture         | Domarka                                       |
| (inches)<br>0 - 6 | Color (moist)<br>10YR 5/3            | - <del>- %</del> - 100 | Color (moist)         |                       |                     | LOC         | Silty Clay      | Remarks                                       |
|                   | 10113/3                              | _ 100                  |                       |                       |                     |             | Silty Clay      |   |
|                   |                                      |                        |                       |                       |                     |             |                 |   |
|                   |                                      |                        |                       |                       |                     |             |                 |   |
|                   |                                      |                        |                       |                       |                     |             |                 |   |
| -                 |                                      |                        |                       |                       |                     |             |                 |   |
| _                 |                                      |                        |                       |                       |                     |             |                 |   |
|                   |                                      |                        |                       |                       |                     |             |                 |   |
| Type: C=C         | oncentration, D=De                   | <br>pletion, RM=f      | Reduced Matrix, M     | S=Masked              | d Sand Gra          | ains.       |                 | PL=Pore Lining, M=Matrix.                     |
| Hydric Soil       | Indicators:                          |                        |                       |                       |                     |             | Indicators for  | r Problematic Hydric Soils³:                  |
| Histoso           | I (A1)                               |                        | Sandy (               | Gleyed Ma             | atrix (S4)          |             | Coast Pra       | airie Redox (A16)                             |
| _                 | pipedon (A2)                         |                        |                       | Redox (S5             | •                   |             | Dark Surf       |   |
| _                 | listic (A3)                          |                        |                       | d Matrix (S           | ,                   |             |                 | ganese Masses (F12)                           |
|                   | en Sulfide (A4)<br>d Layers (A5)     |                        |                       | Mucky Mil<br>Gleyed M | neral (F1)          |             |                 | llow Dark Surface (TF12)<br>plain in Remarks) |
| _                 | uck (A10)                            |                        |                       | d Matrix (            | , ,                 |             | Other (Ex       | piani in Nemarks)                             |
| _                 | d Below Dark Surfa                   | ce (A11)               |                       | Dark Surfa            |                     |             |                 |   |
| Thick D           | ark Surface (A12)                    |                        | Deplete               | d Dark Su             | urface (F7)         |             | 3Indicators of  | hydrophytic vegetation and                    |
| Sandy M           | Mucky Mineral (S1)                   |                        | Redox I               | Depressio             | ns (F8)             |             | wetland h       | ydrology must be present,                     |
|                   | ucky Peat or Peat (S                 |                        |                       |                       |                     |             | unless dis      | sturbed or problematic.                       |
|                   | Layer (if observed                   | ):                     |                       |                       |                     |             |                 |   |
| Туре: _G          |                                      |                        | _                     |                       |                     |             | Hydric Soil Pr  | esent? Yes No                                 |
| Depth (in         | iches): 6                            |                        | _                     |                       |                     |             | ,               |   |
|                   |                                      |                        |                       |                       |                     |             |                 |   |
| HYDROLO           | GY                                   |                        |                       |                       |                     |             |                 |   |
| Wetland Hy        | drology Indicators                   | :                      |                       |                       |                     |             |                 |   |
| Primary Indi      | cators (minimum of                   | one is require         | ed; check all that ap | ply)                  |                     |             | Secondary       | Indicators (minimum of two required)          |
| _                 | Water (A1)                           |                        | Water-Sta             |                       | , ,                 |             |                 | e Soil Cracks (B6)                            |
|                   | ater Table (A2)                      |                        | Aquatic Fa            | ,                     | ,                   |             |                 | ge Patterns (B10)                             |
|                   | ion (A3)                             |                        | True Aqua             |                       |                     |             |                 | ason Water Table (C2)                         |
| _                 | Marks (B1)                           |                        | Hydrogen              |                       | , ,                 |             |                 | h Burrows (C8)                                |
|                   | nt Deposits (B2)                     |                        | Oxidized F            |                       |                     |             |                 | tion Visible on Aerial Imagery (C9)           |
|                   | posits (B3)                          |                        | Presence              |                       | •                   | ,           |                 | d or Stressed Plants (D1)                     |
|                   | at or Crust (B4)                     |                        | Recent Iro            |                       |                     | a Solis (Co | . —             | orphic Position (D2)<br>eutral Test (D5)      |
|                   | posits (B5)<br>ion Visible on Aerial | Imageny (B7)           | Thin Muck Gauge or    |                       |                     |             | FAC-N           | edital Test (D3)                              |
| _                 | y Vegetated Conca                    |                        |                       |                       |                     |             |                 |   |
| Field Obser       | <u> </u>                             | re ouridee (B          | <u> </u>              | Jan III I I           | Jiliarko,           |             |                 |   |
| Surface Wat       |                                      | Yes N                  | o Depth (in           | ches):                |                     |             |                 |   |
| Water Table       |                                      |                        | o Depth (in           |                       |                     |             |                 |   |
| Saturation P      |                                      |                        | o Depth (in           |                       |                     |             | and Hydrology P | resent? Yes No                                |
| (includes ca      | pillary fringe)                      |                        |                       |                       |                     |             |                 |   |
| Describe Ke       | ecorded Data (strear                 | ii gauge, mor          | inoring well, aerial  | priotos, pr           | evious ins          | pections),  | ıı avallable:   |   |
| Remarks:          |                                      |                        |                       |                       |                     |             |                 |   |
| Wetland           | d hydrology                          | absent.                |                       |                       |                     |             |                 |   |
|                   |                                      |                        |                       |                       |                     |             |                 |   |
|                   |                                      |                        |                       |                       |                     |             |                 |   |

| Project/Site: AEP Fostoria to Lima City   | /County: Findlay/Hancock Sampling Date: 2022-07-01                  |  |  |  |  |  |
|---|---|--|--|--|--|--|
| Applicant/Owner: AEP State: Ohio Sampling Point: 1-AA                           |   |  |  |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson Sec                             |   |  |  |  |  |  |
| Landform (hillslope, terrace, etc.): Hillslope Local r                          |   |  |  |  |  |  |
|   | Long: -83.710078 Datum: WGS 84                                      |  |  |  |  |  |
| Soil Map Unit Name: OrA NWI classification: R2UBH                               |   |  |  |  |  |  |
| Are climatic / hydrologic conditions on the site typical for this time of year? |   |  |  |  |  |  |
| Are Vegetation, Soil, or Hydrology significantly dist                           |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
| Are Vegetation, Soil, or Hydrology naturally problem                            |   |  |  |  |  |  |
| SUMMARY OF FINDINGS – Attach site map showing sa                                | impling point locations, transects, important features, etc.        |  |  |  |  |  |
| Hydrophytic Vegetation Present? Yes No  | Is the Sampled Area   |  |  |  |  |  |
| Hydric Soil Present? Yes V No No  | within a Wetland? Yes No  |  |  |  |  |  |
| Wetland Hydrology Present? Yes No   | If yes, optional Wetland Site ID: 1-AA                              |  |  |  |  |  |
| Remarks: (Explain alternative procedures here or in a separate report.)         |   |  |  |  |  |  |
| PEM. ORAM score of 30.  |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
| HYDROLOGY   |   |  |  |  |  |  |
| Wetland Hydrology Indicators:   | Secondary Indicators (minimum of two required)                      |  |  |  |  |  |
| Primary Indicators (minimum of one is required; check all that apply)           | Surface Soil Cracks (B6)  |  |  |  |  |  |
| Surface Water (A1) Water-Stained Lea  | ves (B9) Drainage Patterns (B10)                                    |  |  |  |  |  |
| High Water Table (A2) Aquatic Fauna (B1:  |   |  |  |  |  |  |
| Saturation (A3) Marl Deposits (B15  |   |  |  |  |  |  |
| Water Marks (B1) Hydrogen Sulfide C   |   |  |  |  |  |  |
| <u> </u>  | eres on Living Roots (C3) Saturation Vis ble on Aerial Imagery (C9) |  |  |  |  |  |
| Drift Deposits (B3) Presence of Reduc   |   |  |  |  |  |  |
| Algal Mat or Crust (B4) Recent Iron Reduc                                       | tion in Tilled Soils (C6) Geomorphic Position (D2)                  |  |  |  |  |  |
| Iron Deposits (B5) Thin Muck Surface  | (C7) Shallow Aquitard (D3)  |  |  |  |  |  |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in R                   | emarks) Microtopographic Relief (D4)                                |  |  |  |  |  |
| Sparsely Vegetated Concave Surface (B8)   | FAC-Neutral Test (D5)   |  |  |  |  |  |
| Field Observations:   |   |  |  |  |  |  |
| Surface Water Present? Yes No Depth (inches):                                   |   |  |  |  |  |  |
| Water Table Present? Yes No _ ✓ Depth (inches):                                 |   |  |  |  |  |  |
| Saturation Present? Yes No Depth (inches): 10 (includes capillary fringe)       | Wetland Hydrology Present? Yes No                                   |  |  |  |  |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, p         | revious inspections), if available:                                 |  |  |  |  |  |
|   |   |  |  |  |  |  |
| Remarks:  |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
| Wetland hydrology present   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |

| /EGETATION – Use scientific names of plants. | Sampling Point: 1-AA |
|--|----------------------|
|--|----------------------|

|   | Absolute | Dominant    | Indicator | Dominance Test worksheet:   |
|---|----------|-------------|-----------|---|
| Tree Stratum (Plot size: 30 ft r )                    | % Cover  | Species?    | Status    | Number of Dominant Species  |
| 1   |          |             |           | That Are OBL, FACW, or FAC: 1 (A)                                 |
| 2   |          |             |           | Total Number of Dominant  |
| 3   |          |             |           | Species Across All Strata: 1 (B)                                  |
| 4   |          |             |           |   |
| 5   |          |             |           | Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) |
|   |          |             |           |   |
| 6   |          |             |           | Prevalence Index worksheet:                                       |
| 7   |          |             |           | Total % Cover of: Multiply by:                                    |
|   |          | = Total Cov | /er       | OBL species $\frac{0}{100}$ x 1 = $\frac{0}{000}$                 |
| Sapling/Shrub Stratum (Plot size: 15 ft r )           |          |             |           | FACW species $\frac{100}{2}$ $\times 2 = \frac{200}{2}$           |
| 1   |          |             |           | FAC species $\frac{0}{2}$ $\times 3 = \frac{0}{2}$                |
| 2   |          |             |           | FACU species $\frac{0}{2}$ $x 4 = \frac{0}{2}$                    |
| 3.  |          |             |           | UPL species $\frac{0}{100}$ x 5 = $\frac{0}{200}$                 |
|   |          |             |           | Column Totals: 100 (A) 200 (B)                                    |
| 4   |          |             |           | Prevalence Index = B/A = 2.0                                      |
| 5   |          |             |           | Hydrophytic Vegetation Indicators:                                |
| 6   | _        |             |           | ✓ 1 - Rapid Test for Hydrophytic Vegetation                       |
| 7   |          |             |           | ✓ 2 - Dominance Test is >50%                                      |
|   |          | = Total Cov | /er       | ✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>                       |
| Herb Stratum (Plot size: 5 ft r )                     |          |             |           | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting    |
| 1. Phalaris arundinacea                               | 100      |             | FACW      | data in Remarks or on a separate sheet)                           |
| 2   |          |             |           | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         |
| 3   |          |             |           |   |
| 4   |          |             |           | <sup>1</sup> Indicators of hydric soil and wetland hydrology must |
|   |          |             |           | be present, unless disturbed or problematic.                      |
| 5   |          |             |           | Definitions of Vegetation Strata:                                 |
| 6   |          |             |           | Tree – Woody plants 3 in. (7.6 cm) or more in diameter            |
| 7   |          |             |           | at breast height (DBH), regardless of height.                     |
| 8   |          |             |           | Sapling/shrub – Woody plants less than 3 in. DBH                  |
| 9   |          |             |           | and greater than or equal to 3.28 ft (1 m) tall.                  |
| 10  |          |             |           | Herb – All herbaceous (non-woody) plants, regardless              |
| 11  |          |             |           | of size, and woody plants less than 3.28 ft tall.                 |
| 12.   |          |             |           | Woody vines – All woody vines greater than 3.28 ft in             |
|   | 100%     | = Total Cov | /or       | height.   |
| Woody Vine Stratum (Plot size: 30 ft r )              |          | - Total Cov | 761       |   |
| 1 Convolvulus arvensis                                | 10       |             |           |   |
| 1. Convolvatus at verisis                             | _ 10     |             |           |   |
| 2   |          |             |           |   |
| 3   |          |             |           | Hydrophytic   |
| 4   |          |             |           | Vegetation Present? Yes ✓ No                                      |
|   | 10%      | = Total Cov | /er       | 100 100   |
| Remarks: (Include photo numbers here or on a separate | sheet.)  |             |           |   |
| Hydrophytic vegetation present.                       |          |             |           |   |
| Trydrophytic vegetation present.                      |          |             |           |   |
|   |          |             |           |   |
|   |          |             |           |   |
|   |          |             |           |   |
|   |          |             |           |   |
|   |          |             |           |   |
|   |          |             |           |   |

SOIL Sampling Point: 1-AA

| Profile Desc         | ription: (Describe                                  | to the de    | pth needed to docur          | nent the     | indicator          | or confirm       | n the absence   | of indicators.)   |
|----------------------|---|--------------|------------------------------|--------------|--------------------|------------------|-----------------|---|
| Depth                | Matrix  |              |                              | x Feature    |                    | . 2              |                 |   |
| (inches)             | Color (moist)                                       | %            | Color (moist)                | <u>%</u>     | Type'              | Loc <sup>2</sup> | Texture         | Remarks   |
| 0 - 6                | 10YR 4/2  | 100          |                              | <del>.</del> |                    |                  | Silty Clay      | Gravel inclusions   |
| 6 - 20               | 10YR 4/2  | 95           | 10YR 5/6                     | 5            | С                  | M                | Silty Clay      |   |
| -                    |   |              |                              |              |                    |                  |                 |   |
| -                    |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   | <del>-</del> |                              | ·            |                    |                  |                 | <u> </u>  |
|                      | -   |              |                              |              |                    |                  |                 | ·   |
| -                    |   | _            |                              |              |                    |                  |                 |   |
|                      | -   | _            |                              |              |                    |                  |                 |   |
| -                    |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              | ·            |                    |                  |                 |   |
|                      | -   | - ·          |                              |              | -                  |                  |                 |   |
| -                    |   |              |                              | <u> </u>     |                    |                  |                 |   |
|                      |   | oletion, RN  | 1=Reduced Matrix, MS         | S=Masked     | d Sand Gr          | ains.            |                 | n: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> :        |
| Hydric Soil Histosol |   |              | Polyvalue Belov              | w Surface    | (S8) (I <b>D</b> I | D D              |                 | Muck (A10) (LRR K, L, MLRA 149B)  |
|                      | oipedon (A2)  |              | MLRA 149B)                   |              | (00) (LIV          | 11,              |                 | Prairie Redox (A16) (LRR K, L, R)   |
| Black Hi             | stic (A3)   |              | Thin Dark Surfa              |              |                    |                  | ) 5 cm M        | Mucky Peat or Peat (S3) (LRR K, L, R)   |
|                      | en Sulfide (A4)<br>d Layers (A5)                    |              | Loamy Mucky N Loamy Gleyed I |              |                    | (, <b>L</b> )    |                 | Surface (S7) ( <b>LRR K, L</b> )<br>alue Below Surface (S8) ( <b>LRR K, L</b> ) |
|                      | d Below Dark Surfac                                 | e (A11)      | <u>✓</u> Depleted Matrix     |              | -)                 |                  |                 | Park Surface (S9) (LRR K, L)  |
|                      | ark Surface (A12)                                   | ,            | Redox Dark Su                |              |                    |                  |                 | langanese Masses (F12) (LRR K, L, R)  |
|                      | Mucky Mineral (S1)                                  |              | Depleted Dark S              |              | <del>-</del> 7)    |                  |                 | ont Floodplain Soils (F19) (MLRA 149B)  |
|                      | Gleyed Matrix (S4)<br>Redox (S5)                    |              | Redox Depress                | ions (F8)    |                    |                  |                 | Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) arent Material (F21)               |
|                      | Matrix (S6)   |              |                              |              |                    |                  |                 | Shallow Dark Surface (TF12)   |
|                      | rface (S7) (LRR R, I                                | MLRA 149     | B)                           |              |                    |                  |                 | (Explain in Remarks)  |
| 31 11 1              |   |              |                              |              |                    |                  |                 |   |
|                      | r nydropnytic vegeta<br>L <b>ayer (if observed)</b> |              | etland hydrology mus         | st be pres   | ent, unies         | s disturbed      | or problemation | С.  |
| Type:                | _ayo: ( oboo. roa)                                  | •            |                              |              |                    |                  |                 |   |
|                      | ches):  |              |                              |              |                    |                  | Hydric Soil     | Present? Yes V No No  |
| Remarks:             |   |              |                              |              |                    |                  |                 |   |
|                      | oil procent   |              |                              |              |                    |                  |                 |   |
| nyunc s              | oil present   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |
|                      |   |              |                              |              |                    |                  |                 |   |

| Project/Site: AEP Fostoria to   | ) Lima                  | City/C                   | county: Findlay/Hancoc        | k  | Sampling Date: 2022-07-       | 01  |  |  |
|---|-------------------------|--------------------------|-------------------------------|--|-------------------------------|-----|--|--|
| Applicant/Owner: AEP  |                         |                          |                               |  |                               |     |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson Section, Township, Range: OH01 T1N R10E SN9 |                         |                          |                               |  |                               |     |  |  |
| Landform (hillslope, terrace, etc   |                         |                          |                               |  |                               |     |  |  |
| Subregion (LRR or MLRA): L  |                         |                          |                               |  |                               | 1   |  |  |
| Soil Map Unit Name: OrA   | La                      |                          | Long                          |  |                               |     |  |  |
| Are climatic / hydrologic condition   |                         |                          |                               |  |                               |     |  |  |
|   |                         |                          |                               |  |                               |     |  |  |
| Are Vegetation, Soil  |                         |                          |                               |  |                               |     |  |  |
| Are Vegetation, Soil  | , or Hydrology          | naturally problema       | atic? (If needed, ex          | plain any answer   | s in Remarks.)                |     |  |  |
| SUMMARY OF FINDING  | S - Attach site r       | map showing sam          | pling point location          | s, transects,  | important features, e         | tc. |  |  |
| Lludraphytic Vagatation Drago   | ent? Vee                | No. V                    | Is the Sampled Area           |  |                               |     |  |  |
| Hydrophytic Vegetation Prese Hydric Soil Present?   |                         | No                       | within a Wetland?             | Yes  | No                            |     |  |  |
| Wetland Hydrology Present?  | Yes                     | No                       | If yes, optional Wetland S    | Site ID:   |                               |     |  |  |
| Remarks: (Explain alternative   |                         |                          | ii yoo, opiionai vvoiana e    | S  |                               | _   |  |  |
| Upland point for W  | etland 1-AA. N          | Mowed. Soil co           | mpacted.                      |  |                               |     |  |  |
| HYDROLOGY   |                         |                          |                               |  |                               |     |  |  |
| Wetland Hydrology Indicato  | rs:                     |                          | <u> </u>                      | Secondary Indicat  | tors (minimum of two required | (t  |  |  |
| Primary Indicators (minimum   | of one is required; che | ck all that apply)       |                               | Surface Soil (   | Cracks (B6)                   |     |  |  |
| Surface Water (A1)  | <u></u>                 | _ Water-Stained Leave    | s (B9)                        | Drainage Pat   | terns (B10)                   |     |  |  |
| High Water Table (A2)   | _                       | _ Aquatic Fauna (B13)    | <u>-</u>                      | Moss Trim Lines (B16)  |                               |     |  |  |
| Saturation (A3)   |                         | _ Marl Deposits (B15)    | <del>-</del>                  | Dry-Season Water Table (C2)                                    |                               |     |  |  |
| Water Marks (B1)  |                         | _ Hydrogen Sulfide Ode   |                               | Crayfish Burrows (C8)  |                               |     |  |  |
| Sediment Deposits (B2)  | ·                       | -                        | • , , –                       | · · —  |                               |     |  |  |
| Drift Deposits (B3)   |                         | Presence of Reduced      |                               | Stunted or Stressed Plants (D1)                                |                               |     |  |  |
| Algal Mat or Crust (B4)   |                         | Recent Iron Reductio     |                               | Geomorphic I   |                               |     |  |  |
| Iron Deposits (B5)  |                         | _ Thin Muck Surface (C   |                               | Shallow Aquitard (D3)  |                               |     |  |  |
| Inundation Visible on Aeri Sparsely Vegetated Cond  |                         | Other (Explain in Ren    | narks) _                      | <pre> Microtopographic Relief (D4) FAC-Neutral Test (D5)</pre> |                               |     |  |  |
| Field Observations:   | ,ave Surface (Bo)       |                          |                               | FAC-Neuliai  | Test (D5)                     |     |  |  |
| Surface Water Present?  | Yes No 🗸                | Depth (inches):          |                               |  |                               |     |  |  |
| Water Table Present?  |                         | Depth (inches):          |                               |  |                               |     |  |  |
| Saturation Present?   |                         | Depth (inches):          |                               | drology Presen   | t? Yes No_ 🗸                  |     |  |  |
| (includes capillary fringe)   |                         |                          | _                             |  |                               |     |  |  |
| Describe Recorded Data (stre  | am gauge, monitoring    | well, aerial photos, pre | vious inspections), if availa | able:  |                               |     |  |  |
|   |                         |                          |                               |  |                               |     |  |  |
| Remarks:  |                         |                          |                               |  |                               |     |  |  |
| Wetland hydrology   | absent                  |                          |                               |  |                               |     |  |  |
| in ottaina my an ology  | 4.500                   |                          |                               |  |                               |     |  |  |
|   |                         |                          |                               |  |                               |     |  |  |
|   |                         |                          |                               |  |                               |     |  |  |
|   |                         |                          |                               |  |                               |     |  |  |
|   |                         |                          |                               |  |                               |     |  |  |
|   |                         |                          |                               |  |                               |     |  |  |
|   |                         |                          |                               |  |                               |     |  |  |
|   |                         |                          |                               |  |                               |     |  |  |
|   |                         |                          |                               |  |                               |     |  |  |

| <b>EGETATION</b> – Use scientific names of plants   |                     |                      |           | Sampling Point: 1-AA UPL  |
|---|---------------------|----------------------|-----------|---|
| Tree Stratum (Plot size: 30 ft r )                  | Absolute<br>% Cover | Dominant<br>Species? | Indicator | Dominance Test worksheet:   |
| Juglans nigra                                       | 10                  | <u>✓</u>             | FACU      | Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  |
| 2.<br>3.  |                     |                      |           | Total Number of Dominant Species Across All Strata: 3 (B)   |
| ·   |                     |                      |           | Percent of Dominant Species   |
| j   |                     |                      |           | That Are OBL, FACW, or FAC: 0 (A/B)   |
| 5   |                     |                      |           | Prevalence Index worksheet:   |
| 7   |                     |                      | · ——      | Total % Cover of: Multiply by:  OBL species 0 v.1 = 0   |
| 15 ft r   | 10%                 | = Total Co           | ver       | <u> </u>  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )         |                     |                      |           | FACW species $0$ $x = 2$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$ $0$  |
| l   |                     |                      |           | FACU species 110 x 4 = 440  |
| l   |                     |                      |           | UPL species $0$ $x = 0$   |
| 3   |                     |                      |           | Column Totals: 110 (A) 440 (B)  |
| l   |                     |                      |           | Prevalence Index = $B/A = 4.0$  |
| 5   |                     |                      |           |   |
| 5   |                     |                      |           | Hydrophytic Vegetation Indicators:  |
| 7   |                     |                      |           | 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%  |
| - 6   |                     | = Total Co           | ver       | 3 - Prevalence Index is ≤3.0¹   |
| Herb Stratum (Plot size: 5 ft r )  J. Festuca rubra | 60                  | V                    | FACU      | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)            |
| <br>2. Trifolium repens                             | 20                  |                      | FACU      | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |
| B. Parthenocissus quinquefolia                      | 10                  |                      | FACU      |   |
| Plantago lanceolata                                 | 10                  |                      | FACU      | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic. |
| 5   |                     |                      |           | Definitions of Vegetation Strata:   |
| S   |                     |                      |           | Tree – Woody plants 3 in. (7.6 cm) or more in diamete   |
| 7   |                     |                      |           | at breast height (DBH), regardless of height.   |
| 3<br>9  |                     |                      |           | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.                 |
| 10  |                     |                      |           | Herb – All herbaceous (non-woody) plants, regardless  |
| 11  |                     |                      |           | of size, and woody plants less than 3.28 ft tall.   |
| 12  |                     |                      |           | Woody vines – All woody vines greater than 3.28 ft in   |
|   | 100%                | = Total Co           | ver       | height.   |
| Noody Vine Stratum (Plot size: 30 ft r )            |                     |                      |           |   |
| l   |                     |                      |           |   |
| 2   |                     |                      |           |   |
| 3   |                     |                      |           | Hydrophytic   |
| 4   |                     |                      |           | Vegetation Present? Yes No  |
| Ti  |                     | = Total Co           | ver       |   |
| T   |                     |                      |           |   |

SOIL Sampling Point: 1-AA UPL

| Profile Desc  | ription: (Describe                           | to the dep    | th needed to docum             | nent the i       | ndicator          | or confirn       | n the absence o        | of indicators.)   |
|---------------|--|---------------|--------------------------------|------------------|-------------------|------------------|------------------------|---|
| Depth         | <u>Matrix</u>                                |               |                                | <u> Features</u> | S1                | . 2              |                        |   |
| (inches)      | Color (moist)                                | <u>%</u>      | Color (moist)                  | <u>%</u>         | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                | Remarks   |
| 0 - 5         | 10YR 5/3                                     | 100           |                                |                  |                   |                  | Silty Clay             |   |
| -             |  |               |                                |                  |                   |                  |                        |   |
|               | -  |               |                                |                  |                   |                  |                        |   |
|               |  | <del></del>   |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
| -             |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               | -  |               |                                |                  |                   |                  | -                      |   |
|               |  | - ——          |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
| _             |  |               |                                |                  |                   |                  |                        |   |
|               | -  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
| -             |  |               |                                |                  |                   |                  |                        |   |
| 1Typo: C-C    | ncontration D_Don                            | lotion PM-    |                                |                  | L Sand Gr         | nine             | <sup>2</sup> Location: | PL=Pore Lining, M=Matrix.                                       |
| Hydric Soil I |  | netion, Kivi= | Reduced Matrix, Mo             | =iviaskeu        | i Sanu Gi         | all i5.          |                        | for Problematic Hydric Soils <sup>3</sup> :                     |
| Histosol      |  |               | Polyvalue Below                | v Surface        | (S8) (LRI         | R.R.             |                        | uck (A10) ( <b>LRR K, L, MLRA 149B</b> )                        |
|               | pipedon (A2)                                 |               | MLRA 149B)                     |                  | () (              | ,                |                        | Prairie Redox (A16) (LRR K, L, R)                               |
| Black Hi      |  |               | Thin Dark Surfa                |                  |                   |                  |                        | ucky Peat or Peat (S3) (LRR K, L, R)                            |
|               | n Sulfide (A4)                               |               | Loamy Mucky M                  |                  |                   | , L)             |                        | urface (S7) (LRR K, L)  |
|               | Layers (A5)                                  | - (0.4.4)     | Loamy Gleyed N                 |                  | )                 |                  |                        | ue Below Surface (S8) (LRR K, L)                                |
|               | d Below Dark Surfac<br>ark Surface (A12)     | e (A11)       | Depleted Matrix Redox Dark Sur |                  |                   |                  |                        | ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) |
|               | lucky Mineral (S1)                           |               | Depleted Dark S                |                  | 7)                |                  |                        | ont Floodplain Soils (F19) (MLRA 149B)                          |
|               | Bleyed Matrix (S4)                           |               | Redox Depressi                 |                  | • ,               |                  |                        | Spodic (TA6) (MLRA 144A, 145, 149B)                             |
|               | edox (S5)                                    |               |                                | ` ,              |                   |                  |                        | rent Material (F21)   |
| Stripped      | Matrix (S6)                                  |               |                                |                  |                   |                  | Very Sh                | nallow Dark Surface (TF12)                                      |
| Dark Sui      | rface (S7) ( <b>LRR R, I</b>                 | MLRA 149E     | 3)                             |                  |                   |                  | Other (I               | Explain in Remarks)   |
| 31 12         |  |               |                                |                  |                   |                  |                        |   |
|               | r nydropnytic vegeta<br>_ayer (if observed): |               | tland hydrology mus            | t be prese       | ent, unies        | s disturbed      | i or problematic.      | •   |
| Type: Gr      |  | •             |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  | Usalvia Cail I         | Present? Yes No   |
| Depth (inc    | ches): <u>5</u>                              |               |                                |                  |                   |                  | Hydric Soil i          | Present? Fes No   |
| Remarks:      |  |               |                                |                  |                   |                  |                        |   |
| Hydric s      | oil absent                                   |               |                                |                  |                   |                  |                        |   |
| 1             |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |
|               |  |               |                                |                  |                   |                  |                        |   |

| Project/Site: AEP Fostoria to Lima   | City/County: Find                     | llay/Hancock                   | Sampling Date: 2022-07-01      |  |  |  |
|--|---------------------------------------|--------------------------------|--------------------------------|--|--|--|
| · ·  | State: Ohio Sampling Point: 1-AB      |                                |                                |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                                      |                                       |                                |                                |  |  |  |
| Landform (hillslope, terrace, etc.): Hillslope                                       |                                       | =                              |                                |  |  |  |
| Subregion (LRR or MLRA): Lat:  | 41.043466                             | Long: -83.723318               | Datum: WGS 84                  |  |  |  |
|  |                                       |                                |                                |  |  |  |
| Are climatic / hydrologic conditions on the site typical for                         |                                       |                                |                                |  |  |  |
| Are Vegetation, Soil, or Hydrology   |                                       | Are "Normal Circumstances" p   |                                |  |  |  |
| Are Vegetation, Soil, or Hydrology   |                                       | (If needed, explain any answer |                                |  |  |  |
| SUMMARY OF FINDINGS - Attach site ma   | ap showing sampling poi               | nt locations, transects,       | important features, etc.       |  |  |  |
| Lhudranhudia Varratatian Bassanta  | No. Is the Sam                        | pled Area                      |                                |  |  |  |
| Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes  Vegetation Present?  Yes | No Is the Sam within a W              | •                              | No                             |  |  |  |
|  |                                       | onal Wetland Site ID: 1-AB     |                                |  |  |  |
| Remarks: (Explain alternative procedures here or in a                                |                                       | mai Welland Oile ID.           | -                              |  |  |  |
| HYDROLOGY  |                                       |                                |                                |  |  |  |
| Wetland Hydrology Indicators:  |                                       | Secondary Indica               | tors (minimum of two required) |  |  |  |
| Primary Indicators (minimum of one is required; check                                | all that apply)                       | Surface Soil (                 |                                |  |  |  |
|  | Water-Stained Leaves (B9)             | <u>✓</u> Drainage Pat          |                                |  |  |  |
|  | Aquatic Fauna (B13)                   |                                |                                |  |  |  |
|  | Marl Deposits (B15)                   | Dry-Season Water Table (C2)    |                                |  |  |  |
|  | Hydrogen Sulfide Odor (C1)            | Crayfish Burrows (C8)          |                                |  |  |  |
| Sediment Deposits (B2)   | Oxidized Rhizospheres on Living       | Roots (C3) Saturation Vis      | s ble on Aerial Imagery (C9)   |  |  |  |
|  | Presence of Reduced Iron (C4)         |                                | ressed Plants (D1)             |  |  |  |
|  | Recent Iron Reduction in Tilled So    |                                |                                |  |  |  |
|  | Thin Muck Surface (C7)                | Shallow Aqui                   | ` '                            |  |  |  |
| _  | Other (Explain in Remarks)            |                                | phic Relief (D4)               |  |  |  |
| Sparsely Vegetated Concave Surface (B8)  |                                       | <u>✓</u> FAC-Neutral           | Test (D5)                      |  |  |  |
| Field Observations:  Surface Water Present?  Yes  No                                 | Depth (inches):                       |                                |                                |  |  |  |
|  | Depth (inches):                       |                                |                                |  |  |  |
| Saturation Present? Yes V No   |                                       | Wetland Hydrology Presen       | t? Yes <u>/</u> No             |  |  |  |
| (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring w      | all parial photos, provinus inspac    | tions) if available:           |                                |  |  |  |
| Describe Recorded Data (stream gauge, monitoring w                                   | eli, aeriai priotos, previous irispec | iioris), ii avaliable.         |                                |  |  |  |
|  |                                       |                                |                                |  |  |  |
| Remarks:   |                                       |                                |                                |  |  |  |
| Wetland hydrology present  |                                       |                                |                                |  |  |  |
| ,  |                                       |                                |                                |  |  |  |
|  |                                       |                                |                                |  |  |  |
|  |                                       |                                |                                |  |  |  |
|  |                                       |                                |                                |  |  |  |
|  |                                       |                                |                                |  |  |  |
|  |                                       |                                |                                |  |  |  |
|  |                                       |                                |                                |  |  |  |
|  |                                       |                                |                                |  |  |  |

| <b>VEGETATION</b> – Use scientific names of plants. |  |
|---|--|
|---|--|

|      |            |            | Sampling Point: 1-AB  |
|------|------------|------------|---|
|      | Dominant   |            | Dominance Test worksheet:   |
|      | Species?   |            | Number of Dominant Species  |
|      |            |            | That Are OBL, FACW, or FAC: 1 (A)   |
|      |            |            | Total Number of Dominant Species Across All Strata: 1 (B)   |
|      |            |            | Openics / Noross / Nil Ottala.  |
|      |            |            | Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)                                     |
|      |            |            |   |
|      |            |            | Prevalence Index worksheet:   |
|      |            |            | Total % Cover of: Multiply by:  |
|      | = Total Co | ver        | OBL species $\frac{100}{0}$ $x = 100$<br>FACW species $\frac{100}{0}$ $x = 2$                         |
|      |            |            | FAC species 0   |
|      |            |            | FACU species $0 \times 4 = 0$   |
|      |            |            | UPL species $0 	 x 5 = 0$   |
|      |            |            | Column Totals: 100 (A) 100 (B)  |
|      |            |            | Prevalence Index = B/A = 1.0  |
|      |            |            |   |
|      |            |            | Hydrophytic Vegetation Indicators:  |
|      |            |            | <ul><li>✓ 1 - Rapid Test for Hydrophytic Vegetation</li><li>✓ 2 - Dominance Test is &gt;50%</li></ul> |
| :    | = Total Co | ver        | ✓ 3 - Prevalence Index is ≤3.0¹   |
|      |            |            | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting  |
| 100  |            | OBL        | data in Remarks or on a separate sheet)   |
|      |            |            | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |
|      |            |            | <sup>1</sup> Indicators of hydric soil and wetland hydrology must                                     |
|      |            |            | be present, unless disturbed or problematic.  |
|      |            |            | Definitions of Vegetation Strata:   |
|      |            |            | Tree – Woody plants 3 in. (7.6 cm) or more in diameter  |
|      | -          |            | at breast height (DBH), regardless of height.   |
|      |            |            | Sapling/shrub – Woody plants less than 3 in. DBH  |
|      |            |            | and greater than or equal to 3.28 ft (1 m) tall.  |
|      |            |            | Herb – All herbaceous (non-woody) plants, regardless  |
|      |            |            | of size, and woody plants less than 3.28 ft tall.   |
|      |            |            | Woody vines – All woody vines greater than 3.28 ft in   |
| 100% | = Total Co | ver        | height.   |
|      |            |            |   |
| 10   |            |            |   |
|      |            |            |   |
|      |            |            | Hydrophytic   |
|      |            |            | Vegetation  |
|      | Tatal Car  |            | Present? Yes No   |
| 10/0 | = Total Co | ver        |   |
|      | 100        | = Total Co | = Total Cover  100  |

SOIL Sampling Point: 1-AB

| Profile Desc               | ription: (Describe           | to the de  | pth needed to docu        | ment the   | indicator          | or confirn       | n the absence o        | f indicators.)  |
|----------------------------|------------------------------|------------|---------------------------|------------|--------------------|------------------|------------------------|---|
| Depth                      | Matrix                       |            |                           | x Feature  | es                 |                  |                        |   |
| (inches)                   | Color (moist)                | %          | Color (moist)             | %          | Type <sup>1</sup>  | Loc <sup>2</sup> | Texture                | Remarks   |
| 0 - 6                      | 10YR 4/2                     | 95         | 10YR 5/6                  | 5          | <u>C</u>           | PL / M           | Silty Clay             |   |
| 6 - 20                     | 10YR 4/2                     | 90         | 10YR 5/6                  | 10         | С                  | <u>M</u>         | Silty Clay             |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            | -                            |            | · -                       |            |                    |                  |                        |   |
|                            |                              |            |                           | _          | _                  |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
| -                          |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
| <sup>1</sup> Type: C=Co    | oncentration, D=Dep          | letion, RN | M=Reduced Matrix, M       | S=Maske    | d Sand G           | ains.            | <sup>2</sup> Location: | PL=Pore Lining, M=Matrix.   |
| Hydric Soil                |                              |            |                           |            |                    |                  |                        | or Problematic Hydric Soils <sup>3</sup> :  |
| Histosol                   |                              |            | Polyvalue Belo            |            | e (S8) ( <b>LR</b> | R R,             |                        | ick (A10) (LRR K, L, MLRA 149B)   |
| Histic Ep                  | oipedon (A2)                 |            | MLRA 149B Thin Dark Surfa |            | IDDD M             | I D A 140B       |                        | rairie Redox (A16) ( <b>LRR K, L, R</b> ) ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> ) |
|                            | en Sulfide (A4)              |            | Loamy Mucky I             |            |                    |                  |                        | rface (S7) (LRR K, L)   |
|                            | d Layers (A5)                |            | Loamy Gleyed              |            |                    | , ,              |                        | e Below Surface (S8) (LRR K, L)   |
| Depleted                   | d Below Dark Surfac          | e (A11)    | ✓ Depleted Matrix         | x (F3)     |                    |                  | Thin Dar               | k Surface (S9) (LRR K, L)   |
|                            | ark Surface (A12)            |            | Redox Dark Su             | •          | ,                  |                  |                        | nganese Masses (F12) (LRR K, L, R)  |
| -                          | fucky Mineral (S1)           |            | Depleted Dark             |            |                    |                  |                        | nt Floodplain Soils (F19) (MLRA 149B)   |
| -                          | Gleyed Matrix (S4)           |            | Redox Depress             | sions (F8) |                    |                  |                        | podic (TA6) (MLRA 144A, 145, 149B)  |
| -                          | ledox (S5)<br>Matrix (S6)    |            |                           |            |                    |                  |                        | ent Material (F21)<br>allow Dark Surface (TF12)   |
|                            | rface (S7) ( <b>LRR R, I</b> | VILRA 149  | <b>9B</b> )               |            |                    |                  |                        | xplain in Remarks)  |
| <sup>3</sup> Indicators of | f hydrophytic vegeta         | tion and w | vetland hydrology mus     | et ha nras | ant unlas          | s disturbad      | or problematic         |   |
|                            | _ayer (if observed)          |            | retiand hydrology mus     | st be pres | crit, driica       | 3 disturbed      | or problematic.        |   |
| Type:                      |                              |            |                           |            |                    |                  |                        |   |
|                            | ches):                       |            |                           |            |                    |                  | Hydric Soil P          | resent? Yes No  |
| Remarks:                   |                              |            |                           |            |                    |                  |                        |   |
| Hydric s                   | oil present                  |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |
|                            |                              |            |                           |            |                    |                  |                        |   |

| Project/Site: AEP Fostoria to Lima                                  | City/County: Findlay/Han                  | cock                        | Sampling Date: 2022-07-01     |  |
|---|---|-----------------------------|-------------------------------|--|
| Applicant/Owner: AEP  |   |                             | Sampling Point: 1-AB UPL      |  |
| Investigator(s): Beth Hollinden, Chris Davisson                     |   | <del></del>                 |                               |  |
| Landform (hillslope, terrace, etc.): Hillslope                      |   |                             |                               |  |
| Subregion (LRR or MLRA): Lat: 41.0                                  |   |                             |                               |  |
| Soil Map Unit Name: SnA   | Long.                                     |                             |                               |  |
| Are climatic / hydrologic conditions on the site typical for this   |   |                             |                               |  |
|   |   |                             |                               |  |
| Are Vegetation, Soil, or Hydrology sign                             |   |                             |                               |  |
| Are Vegetation, Soil, or Hydrology na                               | iturally problematic? (If needed          | explain any answer          | s in Remarks.)                |  |
| SUMMARY OF FINDINGS - Attach site map s                             | howing sampling point locat               | ons, transects,             | important features, etc.      |  |
| Lindraphytic Verestation Present? Ver                               | ✓ Is the Sampled Area                     |                             |                               |  |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No  |   |                             | No                            |  |
| Wetland Hydrology Present? Yes No                                   | If yes, optional Wetla                    | nd Site ID:                 |                               |  |
| Remarks: (Explain alternative procedures here or in a sepa          |   | <u> </u>                    |                               |  |
| Upland point for Wetland 1-AB. Mowe                                 | ed. Soil compacted.                       |                             |                               |  |
| HYDROLOGY   |   |                             |                               |  |
| Wetland Hydrology Indicators:                                       |   | Secondary Indicat           | ors (minimum of two required) |  |
| Primary Indicators (minimum of one is required; check all the       | at apply)                                 | Surface Soil 0              |                               |  |
| Surface Water (A1) Wate   | r-Stained Leaves (B9)                     | Drainage Patt               | erns (B10)                    |  |
| High Water Table (A2) Aqua  | tic Fauna (B13)                           | Moss Trim Lir               | nes (B16)                     |  |
| Saturation (A3) Marl  | Deposits (B15)                            | Dry-Season Water Table (C2) |                               |  |
| Water Marks (B1) Hydro  | ogen Sulfide Odor (C1)                    | Crayfish Burro              |                               |  |
|   | zed Rhizospheres on Living Roots (C3      |                             | ble on Aerial Imagery (C9)    |  |
|   | ence of Reduced Iron (C4)                 |                             | ressed Plants (D1)            |  |
|   | nt Iron Reduction in Tilled Soils (C6)    | Geomorphic F                |                               |  |
|   | Muck Surface (C7)                         | Shallow Aquit               |                               |  |
| <u> </u>  | (Explain in Remarks)                      |                             | phic Relief (D4)              |  |
| Sparsely Vegetated Concave Surface (B8)  Field Observations:        |   | FAC-Neutral                 | Test (D5)                     |  |
| .,  | th (inches).                              |                             |                               |  |
| Surface Water Present? Yes No Dept Water Table Present? Yes No Dept |   |                             |                               |  |
| Saturation Present? Yes No Dept                                     |   | Hydrology Present           | ? Yes No                      |  |
| (includes capillary fringe)   |   |                             | : 165 NO                      |  |
| Describe Recorded Data (stream gauge, monitoring well, a            | erial photos, previous inspections), if a | vailable:                   |                               |  |
|   |   |                             |                               |  |
| Remarks:  |   |                             |                               |  |
| Wetland hydrology absent  |   |                             |                               |  |
|   |   |                             |                               |  |

| •        |           |                   | Sampling Point: 1-AB UPL  |  |  |
|----------|-----------|-------------------|---|--|--|
| Absolute |           |                   | Dominance Test worksheet:   |  |  |
|          |           |                   | Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  |  |  |
|          |           |                   | Total Number of Dominant Species Across All Strata: 2 (B)   |  |  |
|          |           |                   | Species Across All Strata: <u>Z</u> (B)  Percent of Dominant Species  |  |  |
|          |           |                   | That Are OBL, FACW, or FAC: 0 (A/B)   |  |  |
|          |           | <del>-</del>      | Prevalence Index worksheet:   |  |  |
|          |           | <u> </u>          | Total % Cover of: Multiply by:  |  |  |
| 0%       | = Total C | over              | OBL species $\frac{0}{2}$ $\times 1 = \frac{0}{2}$  |  |  |
|          |           |                   | FACW species $0$ $x = 0$  |  |  |
|          |           |                   | TAC species X 3 =   |  |  |
|          |           |                   | 17.00 species X =   |  |  |
|          |           |                   | UPL species $0 \times 5 = 0$ Column Totals: $100 \times 6 \times 100$   |  |  |
|          |           |                   | Column rotals (A) (B)   |  |  |
|          |           |                   | Prevalence Index = B/A = 4.0  |  |  |
|          |           |                   | Hydrophytic Vegetation Indicators:  |  |  |
|          |           |                   | 1 - Rapid Test for Hydrophytic Vegetation   |  |  |
|          |           |                   | 2 - Dominance Test is >50%  |  |  |
|          |           |                   | 3 - Prevalence Index is ≤3.0¹   |  |  |
| 70       |           | FACU              | 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  |  |  |
| 20       |           | FACU              | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |  |  |
|          |           | FACU              | <sup>1</sup> Indicators of hydric soil and wetland hydrology must   |  |  |
|          |           |                   | be present, unless disturbed or problematic.  |  |  |
|          |           |                   | Definitions of Vegetation Strata:   |  |  |
|          |           |                   | <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.   |  |  |
| _        |           |                   | Sapling/shrub – Woody plants less than 3 in. DBH  |  |  |
|          | -         |                   | and greater than or equal to 3.28 ft (1 m) tall.  |  |  |
|          |           |                   | <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.   |  |  |
|          |           |                   | Woody vines – All woody vines greater than 3.28 ft in   |  |  |
|          |           | over              | height.   |  |  |
|          | . otal o  |                   |   |  |  |
|          |           |                   |   |  |  |
|          |           |                   |   |  |  |
|          |           |                   |   |  |  |
|          |           |                   |   |  |  |
|          |           |                   | Hydrophytic<br>Vegetation   |  |  |
| <br>     |           |                   |   |  |  |
|          | % Cover   | ## Cover Species* | % Cover         Species?         Status           0%         = Total Cover           = Total Cover         FACU           10         FACU           10         FACU |  |  |

SOIL Sampling Point: 1-AB UPL

| Profile Description: (D  | escribe  | to the de   | oth needed to docur          | nent the i | ndicator    | or confirn       | n the absence     | of indicators.)   |
|--|----------|-------------|------------------------------|------------|-------------|------------------|-------------------|---|
|  | Matrix   |             |                              | x Feature  |             | . 2              | <b>-</b> .        |   |
| (inches) Color (r  |          | %           | Color (moist)                | %          | Type'       | Loc <sup>2</sup> | Texture           | Remarks   |
| 0 - 10 10YR 6/   | 3        | 100         |                              |            |             |                  | Silty Clay        |   |
|  |          |             |                              |            |             |                  |                   |   |
| -  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             | -                            |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
| -  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             | -                            |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
| -  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  | ·                 |   |
| <sup>1</sup> Type: C=Concentration                                 | D Don    | lotion DM   | Doduced Metrix MS            | - Mookoo   | L Cond Cr   |                  | 21 continu        | P. Doro Lining M. Motriy  |
| Hydric Soil Indicators:  |          | ielion, Riv | =Reduced Matrix, Mis         | 5=IVIASKEC | i Sand Gra  | airis.           |                   | : PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :        |
| Histosol (A1)  |          |             | Polyvalue Belov              | w Surface  | (S8) (LRF   | RR,              |                   | Muck (A10) (LRR K, L, MLRA 149B)  |
| Histic Epipedon (A2  | 2)       |             | MLRA 149B)                   |            |             |                  | Coast             | Prairie Redox (A16) (LRR K, L, R)   |
| Black Histic (A3)  |          |             | Thin Dark Surfa              |            |             |                  |                   | Mucky Peat or Peat (S3) (LRR K, L, R)   |
| <ul><li>Hydrogen Sulfide (A</li><li>Stratified Layers (A</li></ul> |          |             | Loamy Mucky M Loamy Gleyed I |            |             | , <b>L</b> )     |                   | Surface (S7) ( <b>LRR K, L</b> )<br>Ilue Below Surface (S8) ( <b>LRR K, L</b> ) |
| Depleted Below Dar   |          | e (A11)     | Depleted Matrix              |            | ,           |                  |                   | eark Surface (S9) (LRR K, L)  |
| Thick Dark Surface   |          | ,           | Redox Dark Su                |            |             |                  |                   | anganese Masses (F12) (LRR K, L, R)   |
| Sandy Mucky Miner  |          |             | Depleted Dark S              |            | 7)          |                  |                   | ont Floodplain Soils (F19) (MLRA 149B)  |
| Sandy Gleyed Matri   | x (S4)   |             | Redox Depress                | ions (F8)  |             |                  |                   | Spodic (TA6) (MLRA 144A, 145, 149B)   |
| <ul><li>Sandy Redox (S5)</li><li>Stripped Matrix (S6)</li></ul>    | 1        |             |                              |            |             |                  |                   | arent Material (F21)<br>Shallow Dark Surface (TF12)                             |
| Dark Surface (S7) (I   |          | /ILRA 149   | <b>B</b> )                   |            |             |                  |                   | (Explain in Remarks)  |
|  |          |             |                              |            |             |                  |                   |   |
| <sup>3</sup> Indicators of hydrophyti                              | -        |             | etland hydrology mus         | t be prese | ent, unless | disturbed        | l or problemation | D   |
| Restrictive Layer (if ob<br>Type: Gravel                           | servea): |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  | Hydric Soil       | Present? Yes No   |
| Depth (inches): 10   |          |             |                              |            |             |                  | Hyuric 30ii       | rieseitt: iesNo   |
| Remarks:   |          |             |                              |            |             |                  |                   |   |
| Hydric soil abse   | ent      |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |
|  |          |             |                              |            |             |                  |                   |   |

| Project/Site: AEP Fostoria to Lima  | City/County: Find  | llay/Hancock                   | Sampling Date: 2022-07-02      |  |  |
|---|--|--------------------------------|--------------------------------|--|--|
| Applicant/Owner: AEP  | State: Ohio Sampling Point: 1-AC                             |                                |                                |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                                       |  |                                |                                |  |  |
| Landform (hillslope, terrace, etc.): Depression                                       | Local relief (concave,                                       | convex, none): Concave         | Slope (%): 1                   |  |  |
| Subregion (LRR or MLRA): Lat  | 41.047855  | Long: -83.71889                | Datum: WGS 84                  |  |  |
|   |  |                                |                                |  |  |
| Are climatic / hydrologic conditions on the site typical f                            |  |                                |                                |  |  |
| Are Vegetation, Soil, or Hydrology  |  | Are "Normal Circumstances" p   | _                              |  |  |
| Are Vegetation, Soil, or Hydrology  |  | (If needed, explain any answer |                                |  |  |
|   |  |                                |                                |  |  |
| SUMMARY OF FINDINGS – Attach site n   | nap snowing sampling pol                                     | nt locations, transects,       | , important leatures, etc.     |  |  |
| Hydrophytic Vegetation Present? Yes   | No Is the Sam  | ·                              |                                |  |  |
|   | No within a W  |                                | No                             |  |  |
| Wetland Hydrology Present? Yes  |  | onal Wetland Site ID: 1-AC     |                                |  |  |
| HYDROLOGY   |  |                                |                                |  |  |
| Wetland Hydrology Indicators:   |  | Secondary Indica               | tors (minimum of two required) |  |  |
| Primary Indicators (minimum of one is required; chec                                  | ck all that apply)   | Surface Soil (                 |                                |  |  |
|   | Water-Stained Leaves (B9)                                    | <u>✓</u> Drainage Pat          |                                |  |  |
|   | Aquatic Fauna (B13)  | Moss Trim Li                   |                                |  |  |
|   | Marl Deposits (B15)  | Dry-Season Water Table (C2)    |                                |  |  |
|   | Hydrogen Sulfide Odor (C1)                                   | Crayfish Burn                  |                                |  |  |
|   | Oxidized Rhizospheres on Living                              |                                | s ble on Aerial Imagery (C9)   |  |  |
|   | Presence of Reduced Iron (C4)                                |                                | ressed Plants (D1)             |  |  |
|   | Recent Iron Reduction in Tilled So<br>Thin Muck Surface (C7) | Shallow Aqui                   |                                |  |  |
|   | Other (Explain in Remarks)                                   |                                | phic Relief (D4)               |  |  |
| Sparsely Vegetated Concave Surface (B8)   | ( - · · · · · · · · · · · · · · · · · ·                      | FAC-Neutral                    | •                              |  |  |
| Field Observations:   |  |                                |                                |  |  |
| Surface Water Present? Yes No   | Depth (inches):  |                                |                                |  |  |
|   | Depth (inches):  |                                |                                |  |  |
|   | Depth (inches): 14   | Wetland Hydrology Presen       | t? Yes No                      |  |  |
| (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring stream) | well, aerial photos, previous inspec                         | tions), if available:          |                                |  |  |
| 33.,  | . ,  | ,                              |                                |  |  |
|   |  |                                |                                |  |  |
| Wetland hydrology present   |  |                                |                                |  |  |
|   |  |                                |                                |  |  |

| 20217111011 Occ coloritino hames of plante.                                    | <b>/EGETATION</b> – Use scientific names of plants. |                   |      |   |  |  |
|--|---|-------------------|------|---|--|--|
| Tree Stratum (Plot size: 30 ft r )   | Absolute % Cover                                    | Dominant Species? |      | Dominance Test worksheet:  Number of Dominant Species   |  |  |
| 1  |   |                   |      | That Are OBL, FACW, or FAC: 3 (A)   |  |  |
| 2  |   |                   |      | Total Number of Dominant Species Across All Strata: 3 (B)   |  |  |
| 4<br>5   |   |                   |      | Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)   |  |  |
| 6.   |   |                   |      | Prevalence Index worksheet:   |  |  |
| 7  |   |                   |      | Total % Cover of: Multiply by:  |  |  |
| _  |   | = Total Co        | ver  | OBL species $\frac{0}{120}$ $\times 1 = \frac{0}{240}$  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                                    |   |                   |      | FACW species $\frac{120}{0}$ $x_2 = \frac{240}{0}$  |  |  |
| 1. Acer saccharinum  |   |                   | FACW | FAC species $0$ $x 3 = 0$<br>FACU species $0$ $x 4 = 0$   |  |  |
| 2. Fraxinus pennsylvanica  | _ <u>5</u>  |                   | FACW | UPL species $0$ $x = 0$   |  |  |
| 3  |   | -                 |      | Column Totals: 120 (A) 240 (B)  |  |  |
| 4<br>-   |   |                   |      | Prevalence Index = B/A = 2.0  |  |  |
| 5  |   |                   |      | Hydrophytic Vegetation Indicators:  |  |  |
| 6  |   |                   |      | ✓ 1 - Rapid Test for Hydrophytic Vegetation   |  |  |
| 7  | 000/  |                   |      | ✓ 2 - Dominance Test is >50%  |  |  |
| 5 ft r   | 2076  | = Total Co        | ver  | ✓ 3 - Prevalence Index is ≤3.0¹   |  |  |
| Herb Stratum (Plot size: <u>5 ft r</u> )<br><sub>1.</sub> Phalaris arundinacea | 100   |                   | FACW | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)      |  |  |
| 2  |   |                   |      | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |  |  |
| 3  |   |                   |      | <sup>1</sup> Indicators of hydric soil and wetland hydrology must   |  |  |
| 4  |   |                   |      | be present, unless disturbed or problematic.  |  |  |
| 5  |   |                   |      | Definitions of Vegetation Strata:   |  |  |
| 6<br>7   |   |                   |      | <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |  |  |
| 8  |   |                   |      | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.           |  |  |
| 9<br>10  |   |                   |      | Herb – All herbaceous (non-woody) plants, regardless  |  |  |
| 11   |   |                   |      | of size, and woody plants less than 3.28 ft tall.   |  |  |
| 12   |   |                   |      | <b>Woody vines</b> – All woody vines greater than 3.28 ft in  |  |  |
|  | 100%  | = Total Co        | ver  | height.   |  |  |
| Woody Vine Stratum (Plot size: 30 ft r )                                       |   |                   |      |   |  |  |
| 1. Convolvulus arvensis  | 10  |                   |      |   |  |  |
| 2  |   |                   |      |   |  |  |
|  |   |                   |      | Hydrophytic   |  |  |
| 3  |   |                   |      | Vegetation Present? Yes No  |  |  |
| 34   |   |                   |      | Present/ Yes No   |  |  |
|  | 400/  | = Total Co        | ver  | Present? Yes No No  |  |  |

SOIL Sampling Point: 1-AC

| Depth (inches)   Education   Color (moist)   Substituting   Subs |
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| 0 - 20   |
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| <sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.  |
| Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (LRR R,  2 cm Muck (A10) (LRR K, L, MLRA 149B)  |
| Histic Epipedon (A2)   |
| Black Histic (A3)  Thin Dark Surface (S9) (LRR R, MLRA 149B)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)   |
| Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L)   |
| Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)  |
| Depleted Below Dark Surface (A11)  |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B)  |
| Sandy Gleyed Matrix (S4)  Redox Depressions (F8)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  |
| Sandy Redox (S5) Red Parent Material (F21)   |
| Stripped Matrix (S6) Very Shallow Dark Surface (TF12)  |
| Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)  |
| <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  |
| Restrictive Layer (if observed):   |
| Type:  |
| Depth (inches): No   |
| Remarks:   |
|  |
| Hydric soil present  |
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| Project/Site: AEP Fostoria to Lima                              | City/County: Findlay/Hancock Sampling Date: 2022-07-0 |                               |                                 |  |  |
|---|---|-------------------------------|---------------------------------|--|--|
| Applicant/Owner: AEP  | State: Ohio Sampling Point: 1-AC U                    |                               |                                 |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                 | Section, Township, Range: OH01 T1N R10E SN16          |                               |                                 |  |  |
| Landform (hillslope, terrace, etc.): Flat                       | Local relief (concave,                                | convex, none): None           | Slope (%): 0                    |  |  |
| Subregion (LRR or MLRA): L                                      | <sub>tt:</sub> 41.048423                              | Long: -83.718413              | Datum: WGS 84                   |  |  |
|   |   |                               |                                 |  |  |
| Are climatic / hydrologic conditions on the site typical        |   |                               |                                 |  |  |
| Are Vegetation, Soil, or Hydrology                              |   |                               |                                 |  |  |
| Are Vegetation, Soil, or Hydrology                              |   | (If needed, explain any answe |                                 |  |  |
| SUMMARY OF FINDINGS – Attach site i                             |   |                               |                                 |  |  |
| Lively and the Managerian Description Van                       | No Is the Sam   | pled Area                     |                                 |  |  |
| Hydrophytic Vegetation Present? Yes<br>Hydric Soil Present? Yes | 110   |                               | No                              |  |  |
| Wetland Hydrology Present? Yes                                  |   | onal Wetland Site ID:         |                                 |  |  |
| Remarks: (Explain alternative procedures here or in             |   |                               |                                 |  |  |
| Unland point for Wotland 1-AC                                   |   |                               |                                 |  |  |
| Upland point for Wetland 1-AC.                                  |   |                               |                                 |  |  |
|   |   |                               |                                 |  |  |
|   |   |                               |                                 |  |  |
|   |   |                               |                                 |  |  |
|   |   |                               |                                 |  |  |
| HYDROLOGY   |   |                               |                                 |  |  |
| Wetland Hydrology Indicators:                                   |   | Secondary Indica              | ators (minimum of two required) |  |  |
| Primary Indicators (minimum of one is required; che             | ck all that apply)                                    | Surface Soil                  |                                 |  |  |
|   | Water-Stained Leaves (B9)                             | Drainage Pa                   | ` '                             |  |  |
|   | _ Aquatic Fauna (B13)                                 | Moss Trim L                   |                                 |  |  |
|   | Marl Deposits (B15)                                   | Dry-Season Water Table (C2)   |                                 |  |  |
|   | _ Hydrogen Sulfide Odor (C1)                          | Crayfish Burrows (C8)         |                                 |  |  |
|   | Oxidized Rhizospheres on Living                       | ·                             | is ble on Aerial Imagery (C9)   |  |  |
|   | Presence of Reduced Iron (C4)                         |                               | tressed Plants (D1)             |  |  |
| _ , , , ,   | Recent Iron Reduction in Tilled So                    |                               | Position (D2)                   |  |  |
|   | Thin Muck Surface (C7)                                | Shallow Aqu                   |                                 |  |  |
|   | Other (Explain in Remarks)                            |                               | aphic Relief (D4)               |  |  |
| Sparsely Vegetated Concave Surface (B8)                         |   | FAC-Neutral                   | . , ,                           |  |  |
| Field Observations:   |   |                               |                                 |  |  |
|   | Depth (inches):                                       |                               |                                 |  |  |
|   | Depth (inches):                                       |                               |                                 |  |  |
|   | Depth (inches):                                       | Wetland Hydrology Preser      | it? Yes No                      |  |  |
| (includes capillary fringe)                                     |   |                               |                                 |  |  |
| Describe Recorded Data (stream gauge, monitoring                | well, aerial photos, previous inspec                  | tions), if available:         |                                 |  |  |
|   |   |                               |                                 |  |  |
| Remarks:  |   |                               |                                 |  |  |
|   |   |                               |                                 |  |  |
| Wetland hydrology absent.                                       |   |                               |                                 |  |  |
|   |   |                               |                                 |  |  |
|   |   |                               |                                 |  |  |
|   |   |                               |                                 |  |  |
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|   |   |                               |                                 |  |  |
|   |   |                               |                                 |  |  |

| •   | i.                  |            |                        | Sampling Point: 1-AC UPL  |  |  |  |
|---|---------------------|------------|------------------------|---|--|--|--|
| Tree Stratum (Plot size: 30 ft r )                    | Absolute<br>% Cover |            | nt Indicator<br>Status | Dominance Test worksheet:   |  |  |  |
| 1   |                     |            |                        | Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  |  |  |  |
| 2.  |                     |            |                        | Total Number of Dominant  |  |  |  |
| 3<br>I  |                     |            |                        | Species Across All Strata: 2 (B)  |  |  |  |
| 5.  |                     |            |                        | Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B   |  |  |  |
| S   |                     |            |                        | Prevalence Index worksheet:   |  |  |  |
| 7   |                     |            | _                      | Total % Cover of: Multiply by:  |  |  |  |
|   |                     | = Total Co | over                   | OBL species $\frac{0}{30}$ $\times 1 = \frac{0}{40}$  |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )           |                     |            |                        | FACW species $\frac{20}{0}$ $\times 2 = \frac{40}{0}$   |  |  |  |
| l   |                     |            |                        | 17AC Species  |  |  |  |
| 2   |                     |            |                        | 1 75  |  |  |  |
| 3   |                     |            |                        | UPL species $15$ $x = 75$ Column Totals: $80$ $(A)$ $295$ $(B)$   |  |  |  |
| l   |                     |            |                        | , , ,, , ,  |  |  |  |
| 5   |                     |            |                        | Prevalence Index = B/A = 3.69   |  |  |  |
| 6   |                     |            |                        | Hydrophytic Vegetation Indicators:  |  |  |  |
| 7   |                     |            |                        | 1 - Rapid Test for Hydrophytic Vegetation   |  |  |  |
|   |                     | = Total Co | over                   | 2 - Dominance Test is >50%<br>3 - Prevalence Index is ≤3.0¹   |  |  |  |
| Herb Stratum (Plot size: 5 ft r )  1. Cirsium arvense | 45                  | V          | FACU                   | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting  |  |  |  |
| 2. Phalaris arundinacea                               | 20                  |            | FACW                   | data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)                |  |  |  |
| Acaloniae auriaea                                     | 15                  |            | UPL                    | repended right of vegetation (Explain)  |  |  |  |
| 4   |                     |            |                        | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic. |  |  |  |
| 5   |                     |            |                        | Definitions of Vegetation Strata:   |  |  |  |
| 6   |                     | -          |                        | Tree – Woody plants 3 in. (7.6 cm) or more in diamete   |  |  |  |
| 7   |                     |            |                        | at breast height (DBH), regardless of height.   |  |  |  |
| 3   |                     |            |                        | Sapling/shrub – Woody plants less than 3 in. DBH  |  |  |  |
| 9   |                     |            |                        | and greater than or equal to 3.28 ft (1 m) tall.  |  |  |  |
| 10  |                     |            |                        | <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.     |  |  |  |
| 11<br>12  |                     |            | _                      | Woody vines – All woody vines greater than 3.28 ft in   |  |  |  |
|   | 000/                | = Total Co | over                   | height.   |  |  |  |
| Woody Vine Stratum (Plot size: 30 ft r                |                     | - Total O  | 3701                   |   |  |  |  |
| 1   |                     |            |                        |   |  |  |  |
| 2   |                     |            |                        |   |  |  |  |
|   |                     |            |                        | Hydrophytic   |  |  |  |
| 5.  |                     |            |                        | Vegetation  |  |  |  |
| 3<br>4.   |                     |            |                        | Present? Yes No   |  |  |  |
| 5<br>4  |                     | = Total Co | over                   |   |  |  |  |

SOIL Sampling Point: 1-AC UPL

| Profile Description: (Describe to the de                 | pth needed to docun   | nent the indicator           | or confirm       | the absence of inc         | dicators.)  |
|--|-----------------------|------------------------------|------------------|----------------------------|---|
| Depth Matrix   |                       | x Features                   |                  | _                          |   |
| (inches) Color (moist) %                                 | Color (moist)         | <u>%</u> Type <sup>1</sup>   | Loc <sup>2</sup> | <u>Texture</u>             | Remarks   |
| 0 - 20 10YR 3/3 100                                      | <u> </u>              |                              |                  | Clay Loam                  |   |
| -  |                       |                              |                  |                            |   |
|  |                       | ·                            |                  |                            |   |
|  | - <u></u>             | ·                            |                  |                            |   |
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| <u> </u>   |                       | ·                            |                  |                            |   |
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|  |                       |                              |                  |                            |   |
| -  |                       |                              |                  |                            |   |
| <sup>1</sup> Type: C=Concentration, D=Depletion, RI      | /=Reduced Matrix. MS  | S=Masked Sand Gr             | ains.            | <sup>2</sup> Location: PL= | =Pore Lining, M=Matrix.   |
| Hydric Soil Indicators:                                  | ,                     |                              |                  |                            | roblematic Hydric Soils <sup>3</sup> :                              |
| Histosol (A1)  | Polyvalue Belov       | v Surface (S8) ( <b>LR</b> I | R,               | 2 cm Muck (                | (A10) (LRR K, L, MLRA 149B)   |
| Histic Epipedon (A2)                                     | MLRA 149B)            |                              |                  |                            | e Redox (A16) ( <b>LRR K, L, R</b> )                                |
| Black Histic (A3)  |                       | ce (S9) (LRR R, M            |                  |                            | Peat or Peat (S3) (LRR K, L, R)                                     |
| Hydrogen Sulfide (A4)     Stratified Layers (A5)         | Loamy Mucky N         | Mineral (F1) ( <b>LRR K</b>  | , L)             |                            | e (S7) ( <b>LRR K, L</b> )<br>elow Surface (S8) ( <b>LRR K, L</b> ) |
| Stratified Layers (A3) Depleted Below Dark Surface (A11) | Depleted Matrix       |                              |                  |                            | urface (S9) (LRR K, L)  |
| Thick Dark Surface (A12)                                 | Redox Dark Sur        |                              |                  |                            | nese Masses (F12) (LRR K, L, R)                                     |
| Sandy Mucky Mineral (S1)                                 | Depleted Dark S       | Surface (F7)                 |                  | Piedmont FI                | oodplain Soils (F19) (MLRA 149B)                                    |
| Sandy Gleyed Matrix (S4)                                 | Redox Depressi        | ions (F8)                    |                  |                            | ic (TA6) ( <b>MLRA 144A, 145, 149B</b> )                            |
| Sandy Redox (S5)   |                       |                              |                  |                            | Material (F21)  |
| Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 14)  | ND)                   |                              |                  |                            | w Dark Surface (TF12)<br>ain in Remarks)                            |
| Daik Surface (S7) (ERR K, MERA 14.                       | <b>3</b> D)           |                              |                  | Other (Expire              | all III (Ciliaiks)  |
| <sup>3</sup> Indicators of hydrophytic vegetation and v  | vetland hydrology mus | t be present, unles          | s disturbed      | or problematic.            |   |
| Restrictive Layer (if observed):                         |                       |                              |                  |                            |   |
| Type:  |                       |                              |                  |                            |   |
| Depth (inches):  |                       |                              |                  | Hydric Soil Pres           | ent? Yes No   |
| Remarks:   |                       |                              |                  |                            |   |
| Llydria agil abaant                                      |                       |                              |                  |                            |   |
| Hydric soil absent.                                      |                       |                              |                  |                            |   |
|  |                       |                              |                  |                            |   |
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|  |                       |                              |                  |                            |   |
|  |                       |                              |                  |                            |   |
|  |                       |                              |                  |                            |   |

| Project/Site: AEP Fostoria to Lima                     | City/County: Fostoria/Hancock Sampling Date: 2022-0   |  |                                |  |  |  |
|--|---|--|--------------------------------|--|--|--|
| Applicant/Owner: AEP                                   |   | State: Ohio                              | -                              |  |  |  |
| Investigator(s): Beth Hollinden, Chris Dav             |   |  |                                |  |  |  |
| Landform (hillslope, terrace, etc.): Flat              |   |  |                                |  |  |  |
| Subregion (LRR or MLRA): L                             |   |  |                                |  |  |  |
|  |   | NWI classific                            |                                |  |  |  |
| Are climatic / hydrologic conditions on the site t     |   |  |                                |  |  |  |
| Are Vegetation, Soil, or Hydrolo                       |   |  |                                |  |  |  |
| Are Vegetation, Soil, or Hydrolo                       |   |  |                                |  |  |  |
| SUMMARY OF FINDINGS – Attach                           |   |  |                                |  |  |  |
| Command of Findings Attach                             |   |  | , important reatures, etc.     |  |  |  |
| Hydrophytic Vegetation Present? Yes                    |   | the Sampled Area<br>ithin a Wetland? Yes | No                             |  |  |  |
| Hydric Soil Present? Yes                               | INO   |  | <del></del>                    |  |  |  |
|  |   | yes, optional Wetland Site ID:           |                                |  |  |  |
| Remarks: (Explain alternative procedures her           | e or in a separate report.)   |  |                                |  |  |  |
| Not a wetland.   |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
| HYDROLOGY  |   |  |                                |  |  |  |
| Wetland Hydrology Indicators:                          |   | Secondary Indica                         | tors (minimum of two required) |  |  |  |
| Primary Indicators (minimum of one is require          | d; check all that apply)  | Surface Soil                             | Cracks (B6)                    |  |  |  |
| Surface Water (A1)                                     | Water-Stained Leaves (E   | 39) Drainage Pa                          | tterns (B10)                   |  |  |  |
| High Water Table (A2)                                  | Aquatic Fauna (B13)   | Moss Trim Li                             | - ' '                          |  |  |  |
| Saturation (A3)  | Marl Deposits (B15)   | Dry-Season                               | Dry-Season Water Table (C2)    |  |  |  |
| Water Marks (B1)                                       | Hydrogen Sulfide Odor (   | C1) Crayfish Burn                        |                                |  |  |  |
| Sediment Deposits (B2)                                 | Oxidized Rhizospheres of the control of the cont | on Living Roots (C3) Saturation Vi       | s ble on Aerial Imagery (C9)   |  |  |  |
| Drift Deposits (B3)                                    | Presence of Reduced Iro   | · ,                                      | tressed Plants (D1)            |  |  |  |
| Algal Mat or Crust (B4)                                | Recent Iron Reduction in  | · · · — ·                                |                                |  |  |  |
| Iron Deposits (B5)                                     | Thin Muck Surface (C7)  | Shallow Aqui                             |                                |  |  |  |
| Inundation Visible on Aerial Imagery (B7)              |   |  | Microtopographic Relief (D4)   |  |  |  |
| Sparsely Vegetated Concave Surface (B8                 | 3)  | FAC-Neutral                              | Test (D5)                      |  |  |  |
| Field Observations:                                    |   |  |                                |  |  |  |
|  | Depth (inches):   |  |                                |  |  |  |
|  | Depth (inches):   |  | .,                             |  |  |  |
| Saturation Present? Yes No (includes capillary fringe) | Depth (inches):   | Wetland Hydrology Presen                 | t? Yes No                      |  |  |  |
| Describe Recorded Data (stream gauge, mon              | toring well, aerial photos, previou   | us inspections), if available:           |                                |  |  |  |
|  |   |  |                                |  |  |  |
| Daniel   |   |  |                                |  |  |  |
| Remarks:   |   |  |                                |  |  |  |
| Wetland hydrology absent.                              |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |
|  |   |  |                                |  |  |  |

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

| Tree Stratum (Plot size: 30 ft r )                    | Absolute      | Dominant<br>Species? | Indicator     | Dominance Test worksheet:   |
|---|---------------|----------------------|---------------|---|
| 1 Robinia pseudoacacia                                | <u> </u>      | Species:             | FACU          | Number of Dominant Species  |
| •   | - <del></del> |                      |               | That Are OBL, FACW, or FAC: 1 (A)   |
| 2   |               |                      |               | Total Number of Dominant  |
| 3   |               |                      |               | Species Across All Strata: 6 (B)  |
| 4   |               |                      |               | Percent of Dominant Species That Are OBL FACW, or FAC: 16.7 (A/B)   |
| 5   |               |                      | ·             | That Are OBL, FACW, or FAC: 16.7 (A/B)  |
| 6   |               |                      |               | Prevalence Index worksheet:   |
| 7   |               |                      |               | Total % Cover of: Multiply by:  |
|   | 5%            | = Total Co           | ver           | OBL species $0 	 x 1 = 0$   |
| Sapling/Shrub Stratum (Plot size: 15 ft r             |               |                      |               | FACW species $0$ $x 2 = 0$  |
| 1. Robinia pseudoacacia                               | 10            | ~                    | FACU          | FAC species 30 x 3 = 90   |
| 2   |               |                      |               | FACU species <u>85</u> x 4 = <u>340</u>   |
|   |               |                      |               | UPL species $0 \times 5 = 0$  |
| 3   |               |                      |               | Column Totals: 115 (A) 430 (B)  |
| 4   |               |                      |               | Prevalence Index = B/A = 3.74   |
| 5   |               |                      |               | Hydrophytic Vegetation Indicators:  |
| 6   |               | -                    | · <del></del> | 1 - Rapid Test for Hydrophytic Vegetation   |
| 7   | 400/          |                      | · <del></del> | 2 - Dominance Test is >50%  |
| <b>5</b> 0  | 10%           | = Total Co           | ver           | 3 - Prevalence Index is ≤3.0 <sup>1</sup>   |
| Herb Stratum (Plot size: 5 ft r )                     |               |                      |               | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting  |
| 1. Festuca rubra                                      | 30            |                      | FACU          | data in Remarks or on a separate sheet)   |
| 2. Toxicodendron radicans                             | 30            |                      | FAC           | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |
| 3. Cirsium arvense                                    | 20            |                      | FACU          | <sup>1</sup> Indicators of hydric soil and wetland hydrology must   |
| 4. Parthenocissus quinquefolia                        | 20            |                      | FACU          | be present, unless disturbed or problematic.  |
| 5   |               |                      |               | Definitions of Vegetation Strata:   |
| 6   |               |                      |               |   |
| 7   |               |                      |               | <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 8   |               |                      |               |   |
| 9   |               |                      |               | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.           |
| 10  |               |                      | · <del></del> | Herb – All herbaceous (non-woody) plants, regardless  |
|   |               |                      | · <del></del> | of size, and woody plants less than 3.28 ft tall.   |
| 11  |               |                      |               | Woody vines – All woody vines greater than 3.28 ft in   |
| 12  | 100%          |                      |               | height.   |
| 00.6  | 100%          | = Total Co           | ver           |   |
| Woody Vine Stratum (Plot size: 30 ft r )              |               |                      |               |   |
| 1   |               |                      |               |   |
| 2   |               |                      |               |   |
| 3   |               |                      |               | Hydrophytic   |
| 4   |               |                      |               | Vegetation Present?  Yes No   |
|   |               | = Total Co           | ver           | resent: res No  |
| Remarks: (Include photo numbers here or on a separate | sheet.)       |                      |               |   |
| Hydrophytic vegetation absent.                        |               |                      |               |   |
| Try drophly do vegetation absent.                     |               |                      |               |   |
|   |               |                      |               |   |
|   |               |                      |               |   |
|   |               |                      |               |   |
|   |               |                      |               |   |
|   |               |                      |               |   |

Sampling Point: 1-SP-001

SOIL Sampling Point: 1-SP-001

| Profile Desc | ription: (Describe                      | to the de        | pth needed to docun               | nent the    | indicator  | or confirn       | m the absence of indicators.)   |            |
|--------------|---|------------------|-----------------------------------|-------------|------------|------------------|---|------------|
| Depth        | Matrix                                  | 0/               |                                   | x Feature   |            | Loc <sup>2</sup> | - Touture Demonte   |            |
| (inches)     | Color (moist)                           | <u> %</u><br>100 | Color (moist)                     | %           | Type'      | LOC              | Texture Remarks   | _          |
| 0 - 13       | 10YR 5/2                                | 100              |                                   |             |            |                  | Silty Clay  | _          |
| 13 - 20      | 10YR 5/2                                | 97               | 10YR 5/6                          | 3           | С          | М                | Silty Clay  |            |
| -            |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              | -                                       |                  |                                   |             |            |                  |   | _          |
|              |   | _                |                                   |             | ·          |                  |   | _          |
|              |   |                  |                                   |             |            |                  |   | _          |
| -            |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
| <u> </u>     | -                                       | _                |                                   |             |            |                  |   | _          |
|              |   | _                |                                   |             | ·          |                  | - <del></del>   | _          |
|              |   |                  |                                   |             |            |                  |   |            |
| -            |   |                  |                                   |             |            |                  |   |            |
|              | -                                       |                  |                                   | -           |            |                  |   |            |
| 1- 0.0       |   |                  |                                   |             |            |                  | 21 21 21 21 21 21 21 21 21 21 21 21 21 2  | _          |
| Hydric Soil  |   | oletion, RIV     | 1=Reduced Matrix, MS              | s=Masked    | Sand Gr    | ains.            | <sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : |            |
| Histosol     |   |                  | Polyvalue Belov                   | v Surface   | (S8) (I RI | R.R.             | 2 cm Muck (A10) (LRR K, L, MLRA 149B)   |            |
|              | oipedon (A2)                            |                  | MLRA 149B)                        |             | (00) (211  | ,                | Coast Prairie Redox (A16) (LRR K, L, R)   |            |
| Black Hi     |   |                  | Thin Dark Surfa                   |             | LRR R, M   | LRA 149B         |   | )          |
|              | n Sulfide (A4)                          |                  | Loamy Mucky M                     |             |            | ., L)            | Dark Surface (S7) (LRR K, L)  |            |
|              | d Layers (A5)                           | (* )             | Loamy Gleyed N                    |             | 2)         |                  | Polyvalue Below Surface (S8) (LRR K, L)   |            |
|              | d Below Dark Surfac                     | e (A11)          | Depleted Matrix                   |             |            |                  | Thin Dark Surface (S9) (LRR K, L)   | <b>5</b> \ |
|              | ark Surface (A12)<br>Mucky Mineral (S1) |                  | Redox Dark Sur<br>Depleted Dark S |             |            |                  | Iron-Manganese Masses (F12) (LRR K, L, F Piedmont Floodplain Soils (F19) (MLRA 149                      |            |
| -            | Gleyed Matrix (S4)                      |                  | Redox Depressi                    |             | 1)         |                  | Mesic Spodic (TA6) (MLRA 144A, 145, 149   |            |
| -            | ledox (S5)                              |                  | Rodox Boproco                     | 10110 (1 0) |            |                  | Red Parent Material (F21)   | _,         |
| -            | Matrix (S6)                             |                  |                                   |             |            |                  | Very Shallow Dark Surface (TF12)  |            |
| Dark Su      | rface (S7) (LRR R, I                    | MLRA 149         | <b>B</b> )                        |             |            |                  | Other (Explain in Remarks)  |            |
| 3            |   |                  |                                   |             |            |                  |   |            |
|              | hydrophytic vegeta  Layer (if observed) |                  | etland hydrology mus              | t be pres   | ent, unles | s disturbed      | d or problematic.   |            |
|              | Layer (II observed)                     |                  |                                   |             |            |                  |   |            |
| Type:        |   |                  | <del></del>                       |             |            |                  | Hydric Soil Present? Yes No   |            |
|              | ches):                                  |                  |                                   |             |            |                  | nyunc son Fresent: Tes No   | _          |
| Remarks:     |   |                  |                                   |             |            |                  |   |            |
| Hydric s     | oil absent.                             |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |
|              |   |                  |                                   |             |            |                  |   |            |

| Project/Site: AEP Fostoria to                  | Lima                    | City/C                                   | ounty: Findlay/F   | Hancock                         | Sampling Date: 2022-07-0        |  |  |
|--|-------------------------|--|--------------------|---------------------------------|---------------------------------|--|--|
| Applicant/Owner: AEP                           |                         |  |                    |                                 | Sampling Point: 1-SP-006        |  |  |
| Investigator(s): Beth Hollinde                 | en, Chris Davissor      |  |                    |                                 |                                 |  |  |
| Landform (hillslope, terrace, etc              |                         |  |                    |                                 |                                 |  |  |
| Subregion (LRR or MLRA): L                     |                         |  |                    |                                 |                                 |  |  |
| Soil Map Unit Name: HpA                        | Lo                      | at                                       |                    | NWI classific                   |                                 |  |  |
| •  |                         | for this time of warm?                   |                    |                                 |                                 |  |  |
| Are climatic / hydrologic condition            |                         |  |                    |                                 |                                 |  |  |
| Are Vegetation, Soil                           |                         |  |                    |                                 |                                 |  |  |
| Are Vegetation, Soil                           | , or Hydrology          | naturally problema                       | atic? (If nee      | eded, explain any answe         | ers in Remarks.)                |  |  |
| SUMMARY OF FINDING                             | S - Attach site         | map showing sam                          | pling point lo     | cations, transects              | s, important features, etc      |  |  |
| Hydrophytic Vegetation Prese                   | int? Ves V              | No                                       | Is the Sampled     | Area                            |                                 |  |  |
| Hydric Soil Present?                           |                         | No                                       |                    | d? Yes                          | No                              |  |  |
| Wetland Hydrology Present?                     |                         | No                                       | If ves. optional W | /etland Site ID:                |                                 |  |  |
| Remarks: (Explain alternative                  |                         |  | , ,                |                                 |                                 |  |  |
| Not a wetland. Ripa                            | arian corridor          | of stream.                               |                    |                                 |                                 |  |  |
| Troca Wottana. Ripe                            |                         | or otroam.                               |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
| HYDROLOGY                                      |                         |  |                    |                                 |                                 |  |  |
| Wetland Hydrology Indicato                     | rs:                     |  |                    | Secondary Indic                 | ators (minimum of two required) |  |  |
| Primary Indicators (minimum o                  | of one is required; che | ck all that apply)                       |                    | Surface Soil                    | Cracks (B6)                     |  |  |
| Surface Water (A1)                             | <u> </u>                | _ Water-Stained Leave                    | s (B9)             | Drainage Patterns (B10)         |                                 |  |  |
| High Water Table (A2)                          | _                       | _ Aquatic Fauna (B13)                    |                    | Moss Trim Lines (B16)           |                                 |  |  |
| Saturation (A3)                                | _                       | _ Marl Deposits (B15)                    |                    | Dry-Season Water Table (C2)     |                                 |  |  |
| Water Marks (B1)                               | _                       | _ Hydrogen Sulfide Ode                   | or (C1)            | Crayfish Bur                    | rrows (C8)                      |  |  |
| Sediment Deposits (B2)                         |                         | <ul> <li>Oxidized Rhizosphere</li> </ul> | _                  | - · · ·                         |                                 |  |  |
| Drift Deposits (B3)                            |                         | Presence of Reduced                      |                    | Stunted or Stressed Plants (D1) |                                 |  |  |
| Algal Mat or Crust (B4)                        |                         | Recent Iron Reductio                     |                    |                                 |                                 |  |  |
| Iron Deposits (B5)                             |                         | _ Thin Muck Surface (C                   |                    | Shallow Aqu                     |                                 |  |  |
| Inundation Visible on Aeri                     |                         | _ Other (Explain in Ren                  | narks)             |                                 | aphic Relief (D4)               |  |  |
| Sparsely Vegetated Conc<br>Field Observations: | ave Surface (B8)        |  |                    | ✓ FAC-Neutra                    | I Test (D5)                     |  |  |
| Surface Water Present?                         | Voc. No.                | Depth (inches):                          |                    |                                 |                                 |  |  |
| Water Table Present?                           |                         | Depth (inches):                          |                    |                                 |                                 |  |  |
| Saturation Present?                            |                         | Depth (inches):                          |                    | land Hydrology Prese            | nt? Yes No_                     |  |  |
| (includes capillary fringe)                    |                         | _ , , ,                                  |                    | , ,,                            | iit: 1es No                     |  |  |
| Describe Recorded Data (stre                   | am gauge, monitoring    | well, aerial photos, pre                 | vious inspections) | , if available:                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
| Remarks:                                       |                         |  |                    |                                 |                                 |  |  |
| Wetland hydrology                              | abcont                  |  |                    |                                 |                                 |  |  |
| wettand hydrology                              | absent.                 |  |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |
|  |                         |  |                    |                                 |                                 |  |  |

| VEGETATION - Use scientific names of plants                |             |            |           | Sampling Point: 1-SP-006   |
|--|-------------|------------|-----------|--|
| T 0: : : : : : : : : : : : : : : : : : :                   | Absolute    |            | Indicator | Dominance Test worksheet:  |
| Tree Stratum (Plot size: 30 ft r )  1                      |             | Species?   |           | Number of Dominant Species That Are OBL, FACW, or FAC:  6  (A)   |
| 2  |             |            |           | Total Number of Dominant Species Across All Strata: 6 (B)  |
| 4  |             |            |           | Percent of Dominant Species  |
| 5  |             |            |           | That Are OBL, FACW, or FAC: 100 (A/B)  |
| 6  |             |            |           | Prevalence Index worksheet:  |
| 7  | <del></del> |            |           | Total % Cover of: Multiply by:   |
|  |             | = Total Co | ver       | OBL species $\frac{15}{25}$ $x = \frac{15}{70}$  |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                |             |            |           | FACW species $\frac{35}{45}$ $x_2 = \frac{70}{135}$  |
| 1. Celtis occidentalis                                     | 25          |            | FAC       | 1 A0 species X0 =  |
| 2. Fraxinus pennsylvanica                                  | 15          |            | FACW      | FACU species $\frac{0}{0}$ $x = \frac{0}{0}$   |
| 3. Salix nigra   | 15          |            | OBL       | UPL species $0$ $x = 0$ (B) Column Totals: $95$ (A) $220$  |
| 4  |             |            |           | Prevalence Index = B/A = 2.32  |
| 5  |             |            |           |  |
| 6  |             |            | ·         | Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation                                  |
| 7  |             |            | ·         | ✓ 2 - Dominance Test is >50%   |
| - 6  | 55%         | = Total Co | ver       | 3 - Prevalence Index is ≤3.0¹  |
| Herb Stratum (Plot size: 5 ft r )  1. Phalaris arundinacea | 20          | V          | FACW      | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         |
| 2. Toxicodendron radicans                                  | 10          |            | FAC       | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  |
|  |             | ·          | ·         | robbinatio riyarophytic vegetation (Explain)   |
| 3  |             |            |           | <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 5  |             |            |           | Definitions of Vegetation Strata:  |
| 6  |             |            |           | Tree – Woody plants 3 in. (7.6 cm) or more in diameter   |
| 7  |             |            |           | at breast height (DBH), regardless of height.  |
| 8  |             |            | · ———     | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.              |
| 9  | _           |            |           | Herb – All herbaceous (non-woody) plants, regardless   |
| 11.  |             |            |           | of size, and woody plants less than 3.28 ft tall.  |
| 12   |             |            |           | Woody vines – All woody vines greater than 3.28 ft in  |
|  | 30%         | = Total Co | ver       | height.  |
| Woody Vine Stratum (Plot size: 30 ft r                     |             |            |           |  |
| 1. Vitis riparia   | 10          |            | FAC       |  |
| 2  |             |            |           |  |
| 3.   |             |            |           | Hydrophytic  |
| 4.   |             |            |           | Vegetation   |
|  |             | = Total Co | vor       | Present? Yes No  |
| Remarks: (Include photo numbers here or on a separate      |             | = 10(a) C0 | VEI       |  |
| Hydrophytic vegetation present.                            |             |            |           |  |
|  |             |            |           |  |
|  |             |            |           |  |
|  |             |            |           |  |
|  |             |            |           |  |
|  |             |            |           |  |

SOIL Sampling Point: 1-SP-006

| Profile Desc | ription: (Describe                       | to the dep       | th needed to docum            | nent the i  | ndicator    | or confirn       | n the absence    | of indicators.)   |
|--------------|--|------------------|-------------------------------|-------------|-------------|------------------|------------------|---|
| Depth        | Matrix                                   |                  |                               | x Feature   |             | . 2              |                  |   |
| (inches)     | Color (moist)                            | %                | Color (moist)                 | %           | Type'       | Loc <sup>2</sup> | Texture          | Remarks   |
| 0 - 6        | 10YR 5/3                                 | 100              |                               | -           |             |                  | Silty Clay Loam  |   |
| -            |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  | <del>-</del>     |                               |             |             |                  | -                |   |
|              |  |                  | _                             |             |             |                  |                  |   |
| -            |  |                  |                               |             |             |                  |                  |   |
| -            |  |                  | _                             | -           |             |                  |                  |   |
|              |  | <del>-</del>     |                               |             |             |                  | -                |   |
|              |  |                  |                               |             |             |                  |                  |   |
| -            |  |                  |                               |             |             |                  |                  |   |
| -            |  |                  | _                             | -           |             |                  |                  |   |
|              |  | <del>-</del>     |                               |             |             |                  | -                |   |
|              |  |                  | _                             |             |             |                  |                  |   |
| -            |  |                  |                               |             |             |                  |                  |   |
|              |  |                  | _                             | -           |             |                  |                  |   |
| 1            |  | <del></del>      |                               |             |             |                  | 2                |   |
| Type: C=Co   |  | oletion, RM      | =Reduced Matrix, MS           | S=Masked    | Sand Gra    | ains.            |                  | PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :                          |
| Ī -          |  |                  | Dobardus Balay                | v Curtooo   | (CO) (LDI   | . D              |                  | •   |
| Histosol     | oipedon (A2)                             |                  | Polyvalue Below MLRA 149B)    |             | (36) (LKI   | ικ,              |                  | luck (A10) ( <b>LRR K, L, MLRA 149B</b> )<br>Prairie Redox (A16) ( <b>LRR K, L, R</b> )         |
| Black Hi     |  |                  | Thin Dark Surfa               |             | RR R, MI    | RA 149B          |                  | lucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )  |
|              | en Sulfide (A4)                          |                  | Loamy Mucky N                 |             |             |                  |                  | urface (S7) (LRR K, L)  |
|              | d Layers (A5)                            |                  | Loamy Gleyed I                |             | )           |                  |                  | ue Below Surface (S8) (LRR K, L)  |
|              | d Below Dark Surfac                      | e (A11)          | Depleted Matrix               |             |             |                  |                  | ark Surface (S9) (LRR K, L)   |
|              | ark Surface (A12)                        |                  | Redox Dark Su                 | . ,         |             |                  |                  | anganese Masses (F12) (LRR K, L, R)   |
| -            | Mucky Mineral (S1)<br>Bleyed Matrix (S4) |                  | Depleted Dark S Redox Depress |             | .7)         |                  |                  | ont Floodplain Soils (F19) ( <b>MLRA 149B</b> )<br>Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) |
| -            | Redox (S5)                               |                  | Redox Depless                 | 10113 (1 0) |             |                  |                  | arent Material (F21)  |
| -            | Matrix (S6)                              |                  |                               |             |             |                  |                  | hallow Dark Surface (TF12)  |
|              | rface (S7) (LRR R, I                     | <b>MLRA</b> 1491 | 3)                            |             |             |                  |                  | Explain in Remarks)   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  | etland hydrology mus          | t be prese  | ent, unless | disturbed        | l or problematic | •   |
|              | Layer (if observed):                     |                  |                               |             |             |                  |                  |   |
| Type: Gr     |  |                  |                               |             |             |                  |                  |   |
| Depth (inc   | ches): <u>6</u>                          |                  |                               |             |             |                  | Hydric Soil      | Present? Yes No   |
| Remarks:     |  |                  |                               |             |             |                  |                  |   |
| Hydric s     | oil absent S                             | oil hiat         | nly compacte                  | d           |             |                  |                  |   |
| ligano       | on aboont o                              | on mg.           | ii, compacio                  | <b>.</b>    |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |
|              |  |                  |                               |             |             |                  |                  |   |

| Project/Site: AEP Fostoria to Lima  | City/County: Findlay/Hancock Sampling Date: 2022-07-    |                                |                               |  |  |  |
|---|---|--------------------------------|-------------------------------|--|--|--|
| •   | State: Ohio Sampling Point: 1-SF                        |                                |                               |  |  |  |
|   | s Davisson Section, Township, Range: OH01 T1N R10E SN29 |                                |                               |  |  |  |
| Landform (hillslope, terrace, etc.): Hillslope  |   | _                              |                               |  |  |  |
| Subregion (LRR or MLRA): Lat:   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
| Are climatic / hydrologic conditions on the site typical for                          |   |                                |                               |  |  |  |
| Are Vegetation, Soil, or Hydrology  |   |                                | _                             |  |  |  |
| Are Vegetation, Soil, or Hydrology  |   | (If needed, explain any answer |                               |  |  |  |
| SUMMARY OF FINDINGS – Attach site ma  |   |                                |                               |  |  |  |
|   |   |                                | mportant router oo, otor      |  |  |  |
| Hydrophytic Vegetation Present? Yes   | No Is the Sam   |                                | _ No                          |  |  |  |
| Hydric Soil Present? Yes  | 110   | ·                              |                               |  |  |  |
| Wetland Hydrology Present? Yes  Remarks: (Explain alternative procedures here or in a |   | onal Wetland Site ID:          |                               |  |  |  |
|   |   |                                |                               |  |  |  |
| Not a wetland. Riparian corridor of   | f stream.   |                                |                               |  |  |  |
| •   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
| HYDROLOGY   |   |                                |                               |  |  |  |
| Wetland Hydrology Indicators:   |   | Secondary Indicat              | ors (minimum of two required) |  |  |  |
| Primary Indicators (minimum of one is required; check                                 | all that apply)   | Surface Soil (                 | Cracks (B6)                   |  |  |  |
| Surface Water (A1)  | Water-Stained Leaves (B9)                               | Drainage Patt                  | erns (B10)                    |  |  |  |
| High Water Table (A2)   | Aquatic Fauna (B13)                                     | Moss Trim Lir                  | nes (B16)                     |  |  |  |
| Saturation (A3)   | Marl Deposits (B15)                                     | Dry-Season Water Table (C2)    |                               |  |  |  |
|   | Hydrogen Sulfide Odor (C1)                              | Crayfish Burrows (C8)          |                               |  |  |  |
|   | Oxidized Rhizospheres on Living                         |                                | ble on Aerial Imagery (C9)    |  |  |  |
| <u> </u>  | Presence of Reduced Iron (C4)                           |                                | ressed Plants (D1)            |  |  |  |
| 1   | Recent Iron Reduction in Tilled So                      |                                |                               |  |  |  |
|   | Thin Muck Surface (C7)                                  | Shallow Aquit                  |                               |  |  |  |
|   | Other (Explain in Remarks)                              |                                | phic Relief (D4)              |  |  |  |
| Sparsely Vegetated Concave Surface (B8) Field Observations:                           |   | FAC-Neutral <sup>-</sup>       | Test (D5)                     |  |  |  |
|   | Depth (inches):   |                                |                               |  |  |  |
|   | Depth (inches):   |                                |                               |  |  |  |
|   | Depth (inches):   | Wetland Hydrology Present      | 2 Vas No V                    |  |  |  |
| (includes capillary fringe)   |   | ,                              | : res No                      |  |  |  |
| Describe Recorded Data (stream gauge, monitoring w                                    | rell, aerial photos, previous inspec                    | tions), if available:          |                               |  |  |  |
|   |   |                                |                               |  |  |  |
| Remarks:  |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
| Wetland hydrology absent.   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |
|   |   |                                |                               |  |  |  |

| VEGETATION - Use scientific names of plants               |          |            |             | Sampling Point: 1-SP-007  |
|---|----------|------------|-------------|---|
| Too Ouston (District 20 ft r                              | Absolute |            | t Indicator | Dominance Test worksheet:   |
| Tree Stratum (Plot size: 30 ft r )  1.                    |          |            | Status      | Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  |
| 2   |          |            |             | Total Number of Dominant Species Across All Strata: 4 (B)   |
| 4   |          |            |             | Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)  |
| 5   |          |            |             | That Are OBL, I AGW, OI I AG.   |
| 6   |          |            |             | Prevalence Index worksheet:   |
| 7   |          |            |             | Total % Cover of: Multiply by:  |
| 15 ft w   |          | = Total Co | over        | OBL species $0$ $x 1 = 0$<br>FACW species $0$ $x 2 = 0$   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )               |          |            |             | FACW species $\frac{0}{10}$ $x = \frac{0}{30}$ $x = \frac{1}{30}$   |
| 1   |          |            |             | FACU species 80   |
| 2   |          | -          |             | UPL species $20$ $x = 100$  |
| 3   |          |            |             | Column Totals: 110 (A) 450 (B)  |
| 4   |          |            |             |   |
| 5   |          |            |             | Prevalence Index = B/A = 4.09   |
| 6   |          |            |             | Hydrophytic Vegetation Indicators:  |
| 7   |          |            |             | 1 - Rapid Test for Hydrophytic Vegetation   |
| Herb Stratum (Plot size: 5 ft r )                         |          | = Total Co | over        | 2 - Dominance Test is >50%<br>3 - Prevalence Index is ≤3.0¹   |
| 1. Cirsium arvense  | 50       |            | FACU        | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)        |
| 2. Festuca rubra  | 30       |            | FACU        | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |
| 3. Bromus inermis   |          |            | UPL         | <sup>1</sup> Indicators of hydric soil and wetland hydrology must   |
| 4.       5.   |          |            |             | be present, unless disturbed or problematic.  Definitions of Vegetation Strata:                               |
| 6   |          |            |             | Tree – Woody plants 3 in. (7.6 cm) or more in diameter  |
| 7   |          |            |             | at breast height (DBH), regardless of height.   |
| 8   |          |            |             | Sapling/shrub – Woody plants less than 3 in. DBH  |
| 9   |          |            |             | and greater than or equal to 3.28 ft (1 m) tall.  |
| 10  |          |            |             | <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 11  |          |            |             | Woody vines – All woody vines greater than 3.28 ft in   |
| 12  |          | = Total Co |             | height.   |
| Washay/fas Obstance (Distration 30 ft r                   | 10070    | = Total Co | over        |   |
| Woody Vine Stratum (Plot size: 30 ft r )  1 Vitis riparia | 10       |            | FAC         |   |
|   |          |            |             |   |
| 2   |          |            |             |   |
| 3   |          |            |             | Hydrophytic<br>Vegetation   |
| 4   |          |            |             | Present? Yes No   |
|   |          | = Total Co | over        |   |
| Remarks: (Include photo numbers here or on a separate     | sheet.)  |            |             |   |
| Hydrophytic vegetation absent.                            |          |            |             |   |
|   |          |            |             |   |
|   |          |            |             |   |
|   |          |            |             |   |
|   |          |            |             |   |
|   |          |            |             |   |
|   |          |            |             |   |

SOIL Sampling Point: 1-SP-007

| Profile Desc            | ription: (Describe           | to the dep  | th needed to docum              | ent the   | indicator         | or confirn       | n the absence o        | f indicators.)   |
|-------------------------|------------------------------|-------------|---------------------------------|-----------|-------------------|------------------|------------------------|--|
| Depth                   | Matrix                       |             |                                 | Feature   | S1                |                  |                        |  |
| (inches)                | Color (moist)                | <u>%</u>    | Color (moist)                   | <u>%</u>  | Type <sup>1</sup> | Loc <sup>2</sup> | Texture                | Remarks  |
| 0 - 8                   | 10YR 5/1                     | 100         |                                 |           |                   |                  | Silty Clay Loam        |  |
| -                       |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
| _                       |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        | _  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
| -                       |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
| <sup>1</sup> Type: C=Co | oncentration, D=Dep          | letion, RM: | Reduced Matrix, MS              | =Masked   | d Sand Gr         | ains.            | <sup>2</sup> Location: | PL=Pore Lining, M=Matrix.                                  |
| Hydric Soil I           | Indicators:                  |             |                                 |           |                   |                  |                        | or Problematic Hydric Soils <sup>3</sup> :                 |
| Histosol                |                              |             | Polyvalue Below                 | / Surface | (S8) ( <b>LR</b>  | R R,             |                        | ıck (A10) ( <b>LRR K, L, MLRA 149B</b> )                   |
|                         | pipedon (A2)                 |             | MLRA 149B)                      | (00) (    |                   |                  |                        | rairie Redox (A16) (LRR K, L, R)                           |
| Black His               | stic (A3)<br>n Sulfide (A4)  |             | Thin Dark Surface Loamy Mucky M |           |                   |                  |                        | icky Peat or Peat (S3) (LRR K, L, R) rface (S7) (LRR K, L) |
|                         | d Layers (A5)                |             | Loamy Gleyed N                  |           |                   | <b>., ∟</b> )    |                        | ie Below Surface (S8) (LRR K, L)                           |
|                         | d Below Dark Surfac          | e (A11)     | Depleted Matrix                 |           | -/                |                  |                        | rk Surface (S9) (LRR K, L)                                 |
|                         | ark Surface (A12)            | ` ,         | Redox Dark Sur                  |           |                   |                  |                        | nganese Masses (F12) (LRR K, L, R)                         |
|                         | lucky Mineral (S1)           |             | Depleted Dark S                 |           | <del>-</del> 7)   |                  |                        | nt Floodplain Soils (F19) (MLRA 149B)                      |
|                         | Bleyed Matrix (S4)           |             | Redox Depressi                  | ons (F8)  |                   |                  |                        | podic (TA6) (MLRA 144A, 145, 149B)                         |
| -                       | edox (S5)<br>Matrix (S6)     |             |                                 |           |                   |                  |                        | ent Material (F21)<br>allow Dark Surface (TF12)            |
|                         | rface (S7) ( <b>LRR R, N</b> | MLRA 149E   | 3)                              |           |                   |                  |                        | explain in Remarks)  |
|                         | (= : ) (= : : : ; :          |             | -,                              |           |                   |                  |                        | ,  |
|                         |                              |             | tland hydrology must            | t be pres | ent, unles        | s disturbed      | d or problematic.      |  |
|                         | _ayer (if observed):         | :           |                                 |           |                   |                  |                        |  |
| Type: Gr                | avel                         |             |                                 |           |                   |                  |                        | ,  |
| Depth (inc              | ches): 8                     |             |                                 |           |                   |                  | Hydric Soil P          | resent? Yes No   |
| Remarks:                |                              |             |                                 |           |                   |                  | II.                    |  |
| Hydric s                | oil absent S                 | oil hiah    | ly compacted                    | 4         |                   |                  |                        |  |
| riyane s                | on absent. o                 | on mgr      | ily compacted                   | <i>.</i>  |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |
|                         |                              |             |                                 |           |                   |                  |                        |  |

| Project/Site: AEP Fostoria to Lima   |                            | City/County: Findlay/Hancock Sampling Date: 2022-07- |   |                                 |  |  |  |
|--|----------------------------|--|---|---------------------------------|--|--|--|
| Applicant/Owner: AEP   |                            | State: Ohio Sampling Point: 1                        |   |                                 |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson Section, Township, Range: OH01 T1N R10E SN10 |                            |  |   |                                 |  |  |  |
| Landform (hillslope, terrace, etc.): Flat  |                            |  | -   |                                 |  |  |  |
| Subregion (LRR or MLRA): M   |                            |  |   |                                 |  |  |  |
| Soil Map Unit Name: Gwe1B1   |                            |  | NWI classific   |                                 |  |  |  |
| Are climatic / hydrologic conditions on th   |                            |  |   |                                 |  |  |  |
| Are Vegetation, Soil, or I   |                            |  |   |                                 |  |  |  |
| Are Vegetation, Soil, or I   |                            |  | (If needed, explain any answe                           |                                 |  |  |  |
| SUMMARY OF FINDINGS – A  | -                          |  |   |                                 |  |  |  |
| JOHNNAKT OF THE HOUSE A  | tach site map sho          |  |   | , important reatures, etc.      |  |  |  |
| Hydrophytic Vegetation Present?  | Yes No                     |  |   | Na                              |  |  |  |
| Hydric Soil Present?   | Yes No                     |  |   | <del>_</del>                    |  |  |  |
| Wetland Hydrology Present?   | Yes No                     |  | onal Wetland Site ID: 1-X                               |                                 |  |  |  |
| Remarks: (Explain alternative procedu  | ires here or in a separate | e report.)   |   |                                 |  |  |  |
| PEM. ORAM score of 28.   |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
| LIVEROLOGY   |                            |  |   |                                 |  |  |  |
| HYDROLOGY  Wetland Hydrology Indicators:   |                            |  | Socondary Indica  | ators (minimum of two required) |  |  |  |
| Primary Indicators (minimum of one is  | required; about all that a | nnlu)  | •   |                                 |  |  |  |
|  |                            |  | Surface Soil Cracks (B6) s (B9) Drainage Patterns (B10) |                                 |  |  |  |
| Surface Water (A1) High Water Table (A2)   | Water-Sta                  | ained Leaves (B9)                                    |   |                                 |  |  |  |
| Saturation (A3)  | Aquatic F                  |  | Moss Trim Lines (B16) Dry-Season Water Table (C2)       |                                 |  |  |  |
| Water Marks (B1)   |                            | Sulfide Odor (C1)                                    | · · · · · · · · · · · · · · · · · · ·                   |                                 |  |  |  |
| Sediment Deposits (B2)   |                            | Rhizospheres on Living                               |   |                                 |  |  |  |
| Drift Deposits (B3)  |                            | of Reduced Iron (C4)                                 |   | tressed Plants (D1)             |  |  |  |
| Algal Mat or Crust (B4)  |                            | on Reduction in Tilled So                            | <del></del>   | Position (D2)                   |  |  |  |
| Iron Deposits (B5)   |                            | k Surface (C7)                                       | Shallow Aqu   |                                 |  |  |  |
| Inundation Visible on Aerial Image   |                            | plain in Remarks)                                    |   |                                 |  |  |  |
| Sparsely Vegetated Concave Surf  | ace (B8)                   |  | FAC-Neutral   | Test (D5)                       |  |  |  |
| Field Observations:  |                            |  |   |                                 |  |  |  |
| Surface Water Present? Yes   | No 🖍 Depth (ir             | nches):  |   |                                 |  |  |  |
|  | No 🔽 Depth (ir             |  |   |                                 |  |  |  |
| Saturation Present? Yes  | No 🗸 Depth (ir             |  | Wetland Hydrology Preser                                | nt? Yes No                      |  |  |  |
| (includes capillary fringe)  Describe Recorded Data (stream gauge                            | no monitoring well aerial  | photos provious inspec                               | tions) if available:                                    |                                 |  |  |  |
| Describe Recorded Data (stream gaug  | e, monitoring well, aerial | priotos, previous irispec                            | dioris), ii avaliable.                                  |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
| Remarks:   |                            |  |   |                                 |  |  |  |
| Watland by dralagy proc  | ont                        |  |   |                                 |  |  |  |
| Wetland hydrology prese  | HIL                        |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |
|  |                            |  |   |                                 |  |  |  |

| VECETATION   | Use scientific names | of planta |
|--------------|----------------------|-----------|
| VEGELATION - | use scientific names | or plants |

| 2.   |   |         |            |          | Sampling Point: 1-X   |  |  |  |
|--|---|---------|------------|----------|---|--|--|--|
| Number of Dominant Species   That Air oBL, FACW, or FAC:       (A)   | Tree Stratum (Plot size: 30 ft r )                    |         |            |          | Dominance Test worksheet:   |  |  |  |
| Species Across All Strates   1   | ,   | ·       | -          | <u> </u> |   |  |  |  |
| Percent of Dominant Species   That Are OBL, FACW, or FAC:   100    (A)   |   |         |            |          | 4   |  |  |  |
| That Are OBL, FACW, or FAC: 100 (A)  |   |         |            |          | Openies / toross / tir otratia.   |  |  |  |
| Total Cover   Total % Cover of:  |   |         |            |          |   |  |  |  |
| Sapling/Shrub Stratum (Plot size: 15 ft r  | 5   |         |            |          | Prevalence Index worksheet:   |  |  |  |
| FACW species   90  | 7   |         |            |          |   |  |  |  |
| FAC species 10   |   |         | = Total Co | ver      |   |  |  |  |
| FACU species   0   | Sapling/Shrub Stratum (Plot size: 15 ft r )           |         |            |          |   |  |  |  |
| UPL species 0 x5 = 0 Column Totals: \frac{0}{100} \text{ (A)} \frac{210}{210} \text{ (g} \frac{1}{100} \text{ (g} 1     | l   |         |            |          | · · · · · · · · · · · · · · · · · · ·   |  |  |  |
| Column Totals: 100 (A) 210 (B Prevalence Index = B/A = 2.10    Hydrophytic Vegetation Indicators:  | 2.  |         |            |          |   |  |  |  |
| Prevalence Index = B/A = 2.10  Prevalence Index = B/A = 2.10  Hydrophytic Vegetation Indicators:   |   |         |            |          | 400   |  |  |  |
| Prevalence Index = B/A = 2.10    Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is >50%     3 - Prevalence Index is \$3.0^1     4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet)     5 - Problematic Hydrophytic Vegetation indicators of hydrophytic Vegetation     4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet)     5 - Problematic Hydrophytic Vegetation indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.     5 -  |   |         |            |          | Column Totals: 100 (A) 210 (B)  |  |  |  |
| Hydrophytic Vegetation Indicators:  7.   |   |         |            |          | Prevalence Index = B/A = 2.10   |  |  |  |
| ### Total Cover ####  Total Cover ####################################   |   |         |            |          | Hydrophytic Vegetation Indicators:  |  |  |  |
| Section   Stratum   Plot size:   5 ft r  |   |         |            |          | , , , ,   |  |  |  |
| Perb Stratum (Plot size: 5 ft r   1  | ·   |         |            |          |   |  |  |  |
| Phalaris arundinacea  90   | F 64  |         | = Total Co | ver      | <del></del>   |  |  |  |
|  | ,   | 90      | V          | FACW     | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting  |  |  |  |
| Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |   | 10      |            | FAC      |   |  |  |  |
| be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft height.  Woody vines Stratum (Plot size: 30 ft r )  1   |   |         |            |          |   |  |  |  |
| Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft height.  Moody Vine Stratum (Plot size: 30 ft r )  1   | 4   |         |            |          | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic. |  |  |  |
| Tree – Woody plants 3 in. (7.6 cm) or more in diame at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft height.  Woody Vine Stratum (Plot size: 30 ft r )  1   | 5   |         |            |          | Definitions of Vegetation Strata:   |  |  |  |
| 7  |   |         |            |          |   |  |  |  |
| and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody Vines – All woody vines greater than 3.28 ft height.  Woody Vines Stratum (Plot size: 30 ft r )  Hydrophytic Vegetation Present?  Yes No  |   |         |            |          |   |  |  |  |
| Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.  Woody vines – All woody vines greater than 3.28 ft height.  Woody Vine Stratum (Plot size: 30 ft r )  Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft height.  Woody vines – All woody vines greater than 3.28 ft height.  Hydrophytic Vegetation Present? Yes _ ✓ No   | 3   |         |            |          | Sapling/shrub – Woody plants less than 3 in. DBH  |  |  |  |
| of size, and woody plants less than 3.28 ft tall.  Woody Vines — All woody vines greater than 3.28 ft height.  Woody Vines — All woody vines greater than 3.28 ft height.  Hydrophytic Vegetation Present? Yes No  | 9   |         |            |          | and greater than or equal to 3.28 ft (1 m) tall.  |  |  |  |
| 100% = Total Cover   Woody vines   30 ft r   |   |         |            |          | Herb – All herbaceous (non-woody) plants, regardless  |  |  |  |
| 100% = Total Cover   height.   hei | 11  |         | -          | -        |   |  |  |  |
| 100% = Total Cover   | 12  |         |            |          | , ,   |  |  |  |
| 1  |   | 100%    | = Total Co | ver      | l noight.   |  |  |  |
| 2  | Noody Vine Stratum (Plot size: 30 ft r )              |         |            |          |   |  |  |  |
| 2  | I   |         | -          |          |   |  |  |  |
| 3 Hydrophytic 4 = Total Cover  |   |         |            |          |   |  |  |  |
| 4 = Total Cover  |   |         |            |          | Hydrophytic   |  |  |  |
| = Total Cover  |   |         |            |          | Vegetation  |  |  |  |
|  | *-  |         |            |          | Present? Yes No   |  |  |  |
|  |   |         | = Total Co | VEI      |   |  |  |  |
| Hydrophytic vegetation present.  | Remarks: (Include nhoto numbers here or on a senarate | chaat \ |            |          |   |  |  |  |

SOIL Sampling Point: 1-X

| Profile Desc  | ription: (Describe           | to the de  | oth needed to docur              | nent the  | indicator         | or confirm       | the absence           | of indicators.)   |
|---------------|------------------------------|------------|----------------------------------|-----------|-------------------|------------------|-----------------------|---|
| Depth         | Matrix                       |            |                                  | x Feature |                   | . 2              |                       |   |
| (inches)      | Color (moist)                | %          | Color (moist)                    | %         | Type <sup>1</sup> | Loc <sup>2</sup> | Texture               | Remarks   |
| 0 - 20        | 10YR 6/2                     | 95         | 10YR 5/6                         | 5         | С                 | PL / M           | Silty Clay            |   |
| -             |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  | ·         | -                 |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
| _             |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            | -                                | · ———     | ·                 |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
| -             |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  | -         | ·                 |                  |                       |   |
|               | -                            |            |                                  |           |                   |                  |                       |   |
| -             |                              |            |                                  |           |                   |                  |                       |   |
| ¹Type: C=Co   | oncentration, D=Dep          | letion, RM | =Reduced Matrix, MS              | S=Masked  | d Sand Gr         | ains.            | <sup>2</sup> Location | : PL=Pore Lining, M=Matrix.                                   |
| Hydric Soil I |                              | ,          |                                  |           |                   |                  | Indicators            | for Problematic Hydric Soils <sup>3</sup> :                   |
| Histosol      |                              |            | Polyvalue Belov                  | w Surface | (S8) ( <b>LR</b>  | R R,             | 2 cm N                | Muck (A10) (LRR K, L, MLRA 149B)                              |
|               | pipedon (A2)                 |            | MLRA 149B)                       |           |                   |                  |                       | Prairie Redox (A16) (LRR K, L, R)                             |
| Black His     | stic (A3)<br>n Sulfide (A4)  |            | Thin Dark Surfa<br>Loamy Mucky N |           |                   |                  |                       | Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L) |
|               | I Layers (A5)                |            | Loamy Gleyed                     |           |                   | <b>., ∟</b> )    |                       | lue Below Surface (S8) (LRR K, L)                             |
|               | d Below Dark Surfac          | e (A11)    | ✓ Depleted Matrix                |           | -/                |                  |                       | ark Surface (S9) (LRR K, L)                                   |
| -             | ark Surface (A12)            |            | Redox Dark Su                    |           |                   |                  |                       | anganese Masses (F12) (LRR K, L, R)                           |
| -             | lucky Mineral (S1)           |            | Depleted Dark                    |           | <del>-</del> 7)   |                  |                       | ont Floodplain Soils (F19) (MLRA 149B)                        |
| -             | leyed Matrix (S4)            |            | Redox Depress                    | ions (F8) |                   |                  |                       | Spodic (TA6) (MLRA 144A, 145, 149B)                           |
| -             | edox (S5)<br>Matrix (S6)     |            |                                  |           |                   |                  |                       | arent Material (F21)<br>Shallow Dark Surface (TF12)           |
|               | rface (S7) ( <b>LRR R, N</b> | MLRA 149   | B)                               |           |                   |                  |                       | (Explain in Remarks)  |
|               | , ,                          |            | ,                                |           |                   |                  | _                     |   |
|               |                              |            | etland hydrology mus             | t be pres | ent, unles        | s disturbed      | or problemation       | D.  |
| Restrictive L | _ayer (if observed):         | :          |                                  |           |                   |                  |                       |   |
| Type:         |                              |            |                                  |           |                   |                  |                       |   |
| Depth (inc    | ches):                       |            |                                  |           |                   |                  | Hydric Soil           | Present? Yes No   |
| Remarks:      |                              |            |                                  |           |                   |                  | •                     |   |
| Hydrics       | oil present                  |            |                                  |           |                   |                  |                       |   |
| riyanoo       | on procent                   |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |
|               |                              |            |                                  |           |                   |                  |                       |   |

| Project/Site: AEP Fostoria to Lima  | City/County: Find  | llay/Hancock                          | Sampling Date: 2022-07-01     |
|---|--|---------------------------------------|-------------------------------|
| Applicant/Owner: AEP  |  | State: Ohio                           | _ Sampling Point: 1-X UPL     |
| Investigator(s): Beth Hollinden, Chris Davisson                               | Section, Township  | o, Range: OH01 T1N R10E S             | N10                           |
| Landform (hillslope, terrace, etc.): Flat                                     |  |                                       |                               |
| Subregion (LRR or MLRA): M Lat  |  |                                       |                               |
|   |  |                                       |                               |
| Are climatic / hydrologic conditions on the site typical f                    |  |                                       |                               |
| Are Vegetation, Soil, or Hydrology  |  | Are "Normal Circumstances" pr         |                               |
| Are Vegetation, Soil, or Hydrology  | naturally problematic?                                       | (If needed, explain any answer        | s in Remarks.)                |
| SUMMARY OF FINDINGS - Attach site n   | nap showing sampling poi                                     | nt locations, transects,              | important features, etc.      |
| Hydric Soil Present? Yes  |  |                                       | _ No _ 🗸                      |
| Upland point for Wetland 1-X  HYDROLOGY                                       |  |                                       |                               |
| Wetland Hydrology Indicators:   |  | Secondary Indicat                     | ors (minimum of two required) |
| Primary Indicators (minimum of one is required; chec                          | ck all that apply)   | •                                     |                               |
| Surface Water (A1)  | Water-Stained Leaves (B9)                                    | Drainage Patt                         |                               |
| High Water Table (A2)   | Aquatic Fauna (B13)  | Moss Trim Lir                         | nes (B16)                     |
|   | Marl Deposits (B15)  | Dry-Season V                          | Vater Table (C2)              |
|   | Hydrogen Sulfide Odor (C1)                                   | Crayfish Burro                        |                               |
|   | Oxidized Rhizospheres on Living                              |                                       | ble on Aerial Imagery (C9)    |
|   | Presence of Reduced Iron (C4)                                |                                       | ressed Plants (D1)            |
| 1   | Recent Iron Reduction in Tilled So<br>Thin Muck Surface (C7) |                                       |                               |
|   | Other (Explain in Remarks)                                   | Shallow Aquit<br>Microtopograp        |                               |
| Sparsely Vegetated Concave Surface (B8)                                       | Other (Explain in Nemarks)                                   | FAC-Neutral                           | · · ·                         |
| Field Observations:   |  | 1710 14001101                         | 1001 (20)                     |
| Surface Water Present? Yes No   | Depth (inches):  |                                       |                               |
| Water Table Present? Yes No   | Depth (inches):  |                                       |                               |
| Saturation Present? Yes No  | Depth (inches):  | Wetland Hydrology Present             | ? Yes No                      |
| (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring | well, aerial photos, previous inspec                         | l<br>tions). if available:            |                               |
| 33  | . ,  | · · · · · · · · · · · · · · · · · · · |                               |
|   |  |                                       |                               |
| Remarks:  |  |                                       |                               |
| Wetland hydrology absent  |  |                                       |                               |
|   |  |                                       |                               |
|   |  |                                       |                               |
|   |  |                                       |                               |
|   |  |                                       |                               |
|   |  |                                       |                               |
|   |  |                                       |                               |
|   |  |                                       |                               |
|   |  |                                       |                               |

|   | i.                  |            |             | Sampling Point: 1-X UPL   |
|---|---------------------|------------|-------------|---|
| Tree Stratum (Plot size: 30 ft r )                    | Absolute<br>% Cover |            | t Indicator | Dominance Test worksheet:   |
| 1   |                     |            |             | Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  |
| 2   |                     |            |             | Total Number of Dominant  |
| 3   |                     |            |             | Species Across All Strata: 2 (B)  |
| 4<br>5  |                     |            |             | Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B   |
| 5<br>6  |                     |            |             |   |
| 7   |                     |            |             | Prevalence Index worksheet:   |
|   |                     | = Total Co |             | OBL species $\frac{0}{x+1}$   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )           |                     |            |             | FACW species <u>40</u> x 2 = <u>80</u>  |
| 1   |                     |            |             | FAC species $\frac{0}{50}$ $\times 3 = \frac{0}{300}$   |
| 2   |                     |            |             | FACU species 50   |
| 3   |                     |            |             | UPL species $\frac{10}{100}$ $x = \frac{50}{330}$ (B)   |
| 4   |                     |            | <u> </u>    |   |
| 5   |                     |            |             | Prevalence Index = B/A = 3.30   |
| 6   |                     |            |             | Hydrophytic Vegetation Indicators:  |
| 7   |                     |            |             | 1 - Rapid Test for Hydrophytic Vegetation   |
|   |                     | = Total Co | ver         | 2 - Dominance Test is >50%<br>3 - Prevalence Index is ≤3.0 <sup>1</sup>   |
| Herb Stratum (Plot size: 5 ft r )<br>1. Festuca rubra | 40                  | V          | FACU        | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)            |
| 2. Phalaris arundinacea                               | 40                  |            | FACW        | Problematic Hydrophytic Vegetation¹ (Explain)   |
| 3. Cirsium arvense                                    | 10                  |            | FACU        |   |
| Daucus carota   | 10                  |            | UPL         | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic. |
| 5   |                     |            |             | Definitions of Vegetation Strata:   |
| 6   |                     |            |             | Tree – Woody plants 3 in. (7.6 cm) or more in diamete   |
| 7   |                     |            |             | at breast height (DBH), regardless of height.   |
| 8   |                     |            | ·           | Sapling/shrub – Woody plants less than 3 in. DBH  |
| 9   |                     | -          |             | and greater than or equal to 3.28 ft (1 m) tall.  |
| 10  |                     |            |             | <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.     |
| 11  |                     |            | <del></del> |   |
| 12  |                     |            |             | <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |
| 30 ft r   | 100%                | = Total Co | ver         |   |
| Woody Vine Stratum (Plot size: 30 ft r                |                     |            |             |   |
|   |                     |            |             |   |
|   |                     |            |             |   |
| 2   |                     |            |             | I be advantage of the state of  |
| 2   |                     |            |             | Hydrophytic<br>Vegetation   |
| 1   |                     |            |             |   |

SOIL Sampling Point: 1-X UPL

| Profile Desc               | ription: (Describe                  | to the dep  | th needed to docum           | ent the i       | ndicator          | or confirn       | n the absence o                                   | of indicators.)  |
|----------------------------|-------------------------------------|-------------|------------------------------|-----------------|-------------------|------------------|---|--|
| Depth                      | Matrix                              |             |                              | <u>Features</u> | S1                | . 2              | <b>-</b> .  | Б  |
| (inches)                   | Color (moist)                       | <u>%</u>    | Color (moist)                | <u>%</u>        | Type <sup>1</sup> | Loc <sup>2</sup> | Texture   | Remarks  |
| 0 - 8                      | 10YR 6/3                            | 100         |                              |                 |                   |                  | Silty Clay  |  |
| -                          |                                     |             |                              |                 |                   |                  |   |  |
|                            | -                                   |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  | <del></del>                                       | ·  |
|                            |                                     | <u> </u>    |                              |                 |                   |                  |   |  |
| -                          |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     | <del></del> |                              |                 |                   |                  | -   | -  |
|                            |                                     | <u> </u>    |                              |                 |                   |                  |   |  |
| -                          |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     | <del></del> |                              |                 |                   |                  | · <del>· · · · · · · · · · · · · · · · · · </del> |  |
|                            | -                                   |             |                              |                 |                   |                  |   |  |
|                            | ·                                   |             |                              |                 |                   |                  | ·   |  |
| -                          |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  | ·   | ·  |
| -                          |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     | letion, RM= | Reduced Matrix, MS           | =Masked         | Sand Gr           | ains.            |   | PL=Pore Lining, M=Matrix.  |
| Hydric Soil I              |                                     |             |                              |                 |                   |                  |   | or Problematic Hydric Soils <sup>3</sup> :                             |
| Histosol                   |                                     |             | Polyvalue Below              | / Surface       | (S8) (LRI         | RR,              |   | uck (A10) (LRR K, L, MLRA 149B)  |
| Black His                  | pipedon (A2)                        |             | MLRA 149B) Thin Dark Surface | ra (SQ) (I      | RRR M             | RΔ 149R          |   | Prairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R) |
|                            | n Sulfide (A4)                      |             | Loamy Mucky M                |                 |                   |                  |   | urface (S7) (LRR K, L)   |
|                            | Layers (A5)                         |             | Loamy Gleyed N               |                 |                   | , –,             |   | ue Below Surface (S8) (LRR K, L)                                       |
|                            | d Below Dark Surfac                 | e (A11)     | Depleted Matrix              |                 | ,                 |                  |   | rk Surface (S9) (LRR K, L)   |
|                            | ark Surface (A12)                   |             | Redox Dark Sur               |                 |                   |                  |   | nganese Masses (F12) (LRR K, L, R)                                     |
| -                          | lucky Mineral (S1)                  |             | Depleted Dark S              |                 | 7)                |                  |   | nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )                         |
|                            | Bleyed Matrix (S4)                  |             | Redox Depressi               | ons (F8)        |                   |                  |   | Spodic (TA6) (MLRA 144A, 145, 149B)                                    |
| -                          | edox (S5)                           |             |                              |                 |                   |                  |   | rent Material (F21)  |
|                            | Matrix (S6)<br>rface (S7) (LRR R, N | ΛΙ D Λ 1/0F | 2)                           |                 |                   |                  |   | allow Dark Surface (TF12)<br>Explain in Remarks)                       |
| Baik Gai                   | nace (OI) (EIRR IX, I               | ILIXA 143L  | •)                           |                 |                   |                  | Other (i  | Explain in Remarks)  |
| <sup>3</sup> Indicators of | f hydrophytic vegeta                | tion and we | tland hydrology mus          | t be prese      | ent, unles        | s disturbed      | l or problematic.                                 |  |
|                            | _ayer (if observed):                |             |                              | -               |                   |                  |   |  |
| Type: Gr                   | avel                                |             |                              |                 |                   |                  |   |  |
| Depth (inc                 | ches): 8                            |             |                              |                 |                   |                  | Hydric Soil I                                     | Present? Yes No  |
| Remarks:                   |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
| Hydric s                   | oil absent                          |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |
|                            |                                     |             |                              |                 |                   |                  |   |  |

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: AEP Fostoria to L                 | .ima                  | City/County: Findlay/Hancock Sampling Date: 2022-07-01 |  |                            |                                  |  |  |
|---|-----------------------|--|--|----------------------------|----------------------------------|--|--|
| Applicant/Owner: AEP                            |                       | State: Ohio Sampling Point: 1-Y                        |  |                            |                                  |  |  |
| Investigator(s): Beth Hollinden                 | ı, Chris Davisson     |  |  |                            |                                  |  |  |
| Landform (hillslope, terrace, etc.):            | Depression Toes       | lope Local reli  | ief (concave, c                                  | convex, none): Concave     | Slope (%): 2                     |  |  |
| Subregion (LRR or MLRA): M                      | Lat                   | 41.064152  | ı  | ong: -83.701299            | Datum: WGS 84                    |  |  |
| Soil Map Unit Name: SoA                         |                       |  |  | NWI classif                |                                  |  |  |
| Are climatic / hydrologic condition             |                       |  |  |                            |                                  |  |  |
| Are Vegetation, Soil                            |                       |  |  |                            |                                  |  |  |
| Are Vegetation, Soil                            |                       |  |  | f needed, explain any answ |                                  |  |  |
| _   |                       |  |  |                            | s, important features, etc.      |  |  |
|   | .4                    |  | Is the Samp                                      | <u> </u>                   |                                  |  |  |
| Hydrio Soil Propert?                            |                       | No<br>No   | within a We                                      |                            | , No                             |  |  |
| Hydric Soil Present? Wetland Hydrology Present? |                       | No   |  | al Wetland Site ID: 1-Y    | <del></del>                      |  |  |
| Remarks: (Explain alternative p                 |                       |  | ir yes, option                                   | lai wetiand Site ID: 1 1   |                                  |  |  |
| HYDROLOGY                                       |                       |  |  |                            |                                  |  |  |
| Wetland Hydrology Indicators                    |                       |  |  | Secondary India            | cators (minimum of two required) |  |  |
| Primary Indicators (minimum of                  |                       | k all that apply)                                      |  | Surface So                 |                                  |  |  |
| ✓ Surface Water (A1)                            | -                     |  | ater-Stained Leaves (B9) Drainage Patterns (B10) |                            |                                  |  |  |
| High Water Table (A2)                           |                       | Aquatic Fauna (B13)                                    |  | =                          | Moss Trim Lines (B16)            |  |  |
| Saturation (A3)                                 |                       | Marl Deposits (B15)                                    |  | Dry-Season                 | n Water Table (C2)               |  |  |
| Water Marks (B1)                                |                       | Hydrogen Sulfide Odd                                   |  | Crayfish Bu                |                                  |  |  |
| Sediment Deposits (B2)                          |                       | Oxidized Rhizosphere                                   | _  |                            | Vis ble on Aerial Imagery (C9)   |  |  |
| Drift Deposits (B3)                             |                       | Presence of Reduced                                    |  |                            | Stressed Plants (D1)             |  |  |
| Algal Mat or Crust (B4)                         |                       | Recent Iron Reduction                                  |  |                            |                                  |  |  |
| Iron Deposits (B5)                              |                       | Thin Muck Surface (C                                   |  | Shallow Aq                 |                                  |  |  |
| Inundation Visible on Aerial                    | • • • • —             | Other (Explain in Rem                                  | narks)   |                            | raphic Relief (D4)               |  |  |
| Sparsely Vegetated Concav Field Observations:   | re Surface (B8)       |  |  | FAC-Neutra                 | ai lest (D5)                     |  |  |
|   | Yes _ ✔ No            | Depth (inches): 1                                      |  |                            |                                  |  |  |
|   | Yes V No              |  |  |                            |                                  |  |  |
|   | Yes No                |  |  | Wetland Hydrology Prese    | ent? Yes V No No                 |  |  |
| (includes capillary fringe)                     |                       |  |  |                            |                                  |  |  |
| Describe Recorded Data (stream                  | n gauge, monitoring v | well, aerial photos, prev                              | vious inspection                                 | ons), if available:        |                                  |  |  |
|   |                       |  |  |                            |                                  |  |  |
| Remarks:  |                       |  |  |                            |                                  |  |  |
| Wetland hydrology p                             | resent                |  |  |                            |                                  |  |  |
|   |                       |  |  |                            |                                  |  |  |
|   |                       |  |  |                            |                                  |  |  |
|   |                       |  |  |                            |                                  |  |  |
|   |                       |  |  |                            |                                  |  |  |
|   |                       |  |  |                            |                                  |  |  |
|   |                       |  |  |                            |                                  |  |  |

| VΕ | <b>GET</b> | ATION - | <ul><li>Use</li></ul> | scientific | names | of | plants. |
|----|------------|---------|-----------------------|------------|-------|----|---------|
|    |            |         |                       |            |       |    |         |

| A I  |                   |                                       | Sampling Point: 1-Y   |
|------|-------------------|---------------------------------------|---|
|      | Dominant Species? |                                       | Dominance Test worksheet:   |
|      | - Species :       | · · · · · · · · · · · · · · · · · · · | Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  |
|      |                   |                                       | Total Number of Dominant  |
|      |                   |                                       | Species Across All Strata: 1 (B)  |
|      |                   |                                       | Percent of Dominant Species That Are OBL FACW or FAC: 100 (A/R)   |
|      |                   |                                       | That Are OBL, FACW, or FAC: 100 (A/B)   |
|      |                   |                                       | Prevalence Index worksheet:   |
|      |                   |                                       |   |
| ·    | = Total Cov       | er er                                 | OBL species $0$ $x 1 = 0$<br>FACW species $95$ $x 2 = 190$  |
|      |                   |                                       | FAC species 5 x 3 = 15  |
|      |                   |                                       | FACU species $0 	 x4 = 0$   |
|      |                   |                                       | UPL species $0 \times 5 = 0$  |
|      |                   |                                       | Column Totals: 100 (A) 205 (B)  |
|      |                   |                                       | Prevalence Index = $B/A = 2.05$   |
|      |                   |                                       | Hydrophytic Vegetation Indicators:  |
|      |                   |                                       | ✓ 1 - Rapid Test for Hydrophytic Vegetation   |
|      |                   | /er                                   | ✓ 2 - Dominance Test is >50%  |
|      |                   |                                       | ✓ 3 - Prevalence Index is ≤3.0¹   |
| 95   | ~                 | FACW                                  | <ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supporting<br/>data in Remarks or on a separate sheet)</li> </ul> |
| 5    |                   | FAC                                   | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |
|      |                   |                                       | The distance of booking and constant booking a constant   |
|      |                   |                                       | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic.             |
|      |                   |                                       | Definitions of Vegetation Strata:   |
|      |                   |                                       | Tree – Woody plants 3 in. (7.6 cm) or more in diameter  |
|      |                   |                                       | at breast height (DBH), regardless of height.   |
|      |                   |                                       | Sapling/shrub – Woody plants less than 3 in. DBH  |
|      |                   |                                       | and greater than or equal to 3.28 ft (1 m) tall.  |
|      |                   |                                       | Herb – All herbaceous (non-woody) plants, regardless  |
|      |                   |                                       | of size, and woody plants less than 3.28 ft tall.   |
|      |                   |                                       | <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.  |
| 100% | = Total Cov       | er                                    |   |
|      |                   |                                       |   |
|      |                   |                                       |   |
|      |                   |                                       |   |
|      |                   |                                       | Hydrophytic<br>Vegetation   |
|      |                   |                                       | Present? Yes No   |
|      | = Total Cov       |                                       |   |
|      | 95 5              | = Total Cov                           | = Total Cover  95   |

SOIL Sampling Point: 1-Y

| Profile Desc               | ription: (Describe                   | to the de   | oth needed to docur          | nent the   | indicator         | or confirn       | n the absence         | of indicators.)   |
|----------------------------|--------------------------------------|-------------|------------------------------|------------|-------------------|------------------|-----------------------|---|
| Depth                      | Matrix                               |             |                              | x Feature  |                   | . 2              |                       |   |
| (inches)                   | Color (moist)                        | <u>%</u>    | Color (moist)                | %          | Type <sup>1</sup> | Loc <sup>2</sup> | Texture               | Remarks   |
| 0 - 10                     | 10YR 2/1                             | 95          | 10YR 5/6                     | 10         | <u>C</u>          | M                | Silty Clay            | Gravel inclusions   |
| -                          |                                      |             |                              |            |                   |                  |                       |   |
|                            | -                                    |             |                              |            | -                 |                  | ·                     |   |
|                            |                                      |             |                              |            |                   | -                |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
| -                          |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            | -                 |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            | -                                    |             | -                            |            | -                 |                  |                       |   |
|                            |                                      |             |                              | <u> </u>   |                   |                  |                       |   |
| -                          |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      | -           |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            | _                 | -                |                       |   |
|                            | -                                    |             |                              |            |                   |                  |                       |   |
| -                          |                                      |             |                              |            |                   |                  |                       |   |
| ¹Type: C=Co                | ncentration D=Den                    | letion RM   | =Reduced Matrix, MS          | S-Maske    | d Sand G          | ains             | <sup>2</sup> Location | : PL=Pore Lining, M=Matrix.                                     |
| Hydric Soil I              |                                      | notion, rav | =reduced Wath, We            | 3-Maske    | a cana ci         | unio.            |                       | for Problematic Hydric Soils <sup>3</sup> :                     |
| Histosol                   |                                      |             | Polyvalue Belov              | w Surface  | (S8) ( <b>LR</b>  | R R,             |                       | Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )                       |
|                            | pipedon (A2)                         |             | MLRA 149B)                   |            | ` , `             |                  |                       | Prairie Redox (A16) ( <b>LRR K, L, R</b> )                      |
| Black Hi                   | , ,                                  |             | Thin Dark Surfa              |            |                   |                  |                       | Mucky Peat or Peat (S3) (LRR K, L, R)                           |
|                            | n Sulfide (A4)                       |             | Loamy Mucky N                |            |                   | (, L)            |                       | Surface (S7) (LRR K, L)   |
|                            | l Layers (A5)<br>d Below Dark Surfac | - (Δ11)     | Loamy Gleyed Depleted Matrix |            | <u>2)</u>         |                  |                       | alue Below Surface (S8) (LRR K, L) Park Surface (S9) (LRR K, L) |
|                            | ark Surface (A12)                    | e (ATT)     | ✓ Redox Dark Su              |            | )                 |                  |                       | anganese Masses (F12) (LRR K, L, R)                             |
|                            | lucky Mineral (S1)                   |             | Depleted Dark                |            |                   |                  |                       | ont Floodplain Soils (F19) (MLRA 149B)                          |
|                            | Bleyed Matrix (S4)                   |             | Redox Depress                |            |                   |                  |                       | Spodic (TA6) (MLRA 144A, 145, 149B)                             |
|                            | edox (S5)                            |             |                              |            |                   |                  |                       | arent Material (F21)  |
|                            | Matrix (S6)                          |             |                              |            |                   |                  |                       | shallow Dark Surface (TF12)                                     |
| Dark Sui                   | rface (S7) (LRR R, I                 | MLRA 149    | <b>B</b> )                   |            |                   |                  | Other                 | (Explain in Remarks)  |
| <sup>3</sup> Indicators of | hvdrophytic vegeta                   | tion and w  | etland hydrology mus         | t he nres  | ent unles         | s disturbed      | or problemation       |   |
|                            | _ayer (if observed):                 |             | chana nyarology mac          | or be pres | orit, ariioo      | o diotarbee      | Т                     |   |
| Type: Gr                   |                                      |             |                              |            |                   |                  |                       |   |
| Depth (inc                 |                                      |             |                              |            |                   |                  | Hydric Soil           | Present? Yes V No No  |
| Remarks:                   |                                      |             |                              |            |                   |                  | 1.,,                  |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
| Hydric s                   | oil present                          |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |
|                            |                                      |             |                              |            |                   |                  |                       |   |

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: AEP Fostoria to Lima  | City/County: Findlay/Hancock Sampling Date: 2022-07-01   |  |   |  |  |  |
|---|--|--|---|--|--|--|
| Applicant/Owner: AEP  | State: Ohio Sampling Point: 1-Y UPL  |  |   |  |  |  |
| Investigator(s): Beth Hollinden, Chris Davissor                                   | on Section, Township, Range: OH01 T1N R10E SN10  |  |   |  |  |  |
| Landform (hillslope, terrace, etc.): Hillslope                                    | andform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%) |  |   |  |  |  |
| Subregion (LRR or MLRA): M La   | at: 41.064185  | Long: -83.701198   | Datum: WGS 84                           |  |  |  |
|   |  |  |   |  |  |  |
| Are climatic / hydrologic conditions on the site typical                          |  |  |   |  |  |  |
| Are Vegetation, Soil, or Hydrology  | significantly disturbed?   | Are "Normal Circumstances" p   | resent? Yes No                          |  |  |  |
| Are Vegetation, Soil, or Hydrology  |  | If needed, explain any answe   |   |  |  |  |
| SUMMARY OF FINDINGS – Attach site   |  | nt locations, transects  | important features, etc.                |  |  |  |
|   |  |  | , |  |  |  |
| Hydrophytic Vegetation Present? Yes   | 110  |  | No                                      |  |  |  |
| Hydric Soil Present? Yes  Wetland Hydrology Present? Yes                          |  |  | <del></del>                             |  |  |  |
| Remarks: (Explain alternative procedures here or in                               |  | nal Wetland Site ID:   |   |  |  |  |
| Upland point for Wetland 1-Y.   |  |  |   |  |  |  |
| HYDROLOGY   |  |  |   |  |  |  |
| Wetland Hydrology Indicators:   |  | Secondary Indica   | tors (minimum of two required)          |  |  |  |
| Primary Indicators (minimum of one is required; che                               | eck all that apply)  | Surface Soil   | Surface Soil Cracks (B6)                |  |  |  |
|   | _ Water-Stained Leaves (B9)  | Drainage Patterns (B10)  |   |  |  |  |
|   | _ Aquatic Fauna (B13)  | Moss Trim Lines (B16)  |   |  |  |  |
|   | _ Marl Deposits (B15)  | Dry-Season Water Table (C2)  |   |  |  |  |
| 1   | _ Hydrogen Sulfide Odor (C1)   | Crayfish Burr  |   |  |  |  |
|   | _ Oxidized Rhizospheres on Living R  |  | s ble on Aerial Imagery (C9)            |  |  |  |
| <del></del>   | Presence of Reduced Iron (C4)  |  | ressed Plants (D1)                      |  |  |  |
| 1 <del></del>   | Recent Iron Reduction in Tilled Soi  | • • • • •  |   |  |  |  |
|   | _ Thin Muck Surface (C7)   | Shallow Aquitard (D3)  |   |  |  |  |
| Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) | Other (Explain in Remarks)   | <ul><li>Microtopographic Relief (D4)</li><li>FAC-Neutral Test (D5)</li></ul> |   |  |  |  |
| Field Observations:   |  | FAC-Neutral  | Test (D5)                               |  |  |  |
|   | Depth (inches):  |  |   |  |  |  |
|   | Depth (inches):  |  |   |  |  |  |
| Saturation Present? Yes No  | Depth (inches):  | Wetland Hydrology Presen   | t? Yes No                               |  |  |  |
| (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring     | well aerial photos previous inspect  | ions) if available:  |   |  |  |  |
| Beschibe Necorded Bata (stream gauge, monitoring                                  | y well, defial photos, previous inspecti   | ions), ii avallabic.   |   |  |  |  |
|   |  |  |   |  |  |  |
| Wetland hydrology absent.   |  |  |   |  |  |  |
|   |  |  |   |  |  |  |

| GETATION – Use scientific names of plants.   | Sampling Point: 1-Y UPL  |
|--|--|
| Absolute Dominant Indicato e Stratum (Plot size: 30 ft r ) % Cover Species? Status | Dominance Test Worksheet:  |
| e Stratum (Flot size. Oo K.T. ) // Cover Species: Status                           | Number of Dominant Species  That Are OBL, FACW, or FAC: 2 (A)                    |
|  |  |
|  | Total Number of Dominant Species Across All Strata: 2 (B)                        |
|  | Percent of Dominant Species  |
|  | That Are OBL, FACW, or FAC: 100 (A/B)  |
|  | Prevalence Index worksheet:  |
|  | _ Total % Cover of: Multiply by:   |
| = Total Cover  | OBL species $0 	 x 1 = 0$  |
| oling/Shrub Stratum (Plot size: 15 ft r )  | FACW species $\frac{90}{2}$ $\times 2 = \frac{180}{2}$                           |
|  | FAC species $\frac{0}{10}$ $\times 3 = \frac{0}{40}$                             |
|  | FACU species 10  |
|  | OPL species  |
|  | _ ( - )  |
|  | Prevalence Index = B/A = 2.20  |
|  | Hydrophytic Vegetation Indicators:   |
|  | 1 - Rapid Test for Hydrophytic Vegetation  |
| = Total Cover  | ✓ 2 - Dominance Test is >50%  2. Providence Index is <2.01                       |
| b Stratum (Plot size: 5 ft r )   | 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting |
| Phalaris arundinacea 70 FACW   | data in Remarks or on a separate sheet)  |
| Verbesina alternifolia 20 ✓ FACW   | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)                        |
| Cirsium arvense 5 FACU   | Indicators of hydric soil and wetland hydrology must                             |
| Phytolacca americana 5 FACU  | be present, unless disturbed or problematic.                                     |
| · · · · · · · · · · · · · · · · · · ·  | Definitions of Vegetation Strata:  |
|  | Tree – Woody plants 3 in. (7.6 cm) or more in diameter                           |
|  | at breast height (DBH), regardless of height.                                    |
|  | Sapling/shrub – Woody plants less than 3 in. DBH                                 |
|  | and greater than or equal to 3.28 ft (1 m) tall.                                 |
|  | Herb – All herbaceous (non-woody) plants, regardless                             |
|  | of size, and woody plants less than 3.28 ft tall.                                |
|  | Woody vines – All woody vines greater than 3.28 ft in height.                    |
|  |  |
| ody Vine Stratum (Plot size: 30 ft r )   |  |
|  | _  |
|  | _  |
|  | Hydrophytic Vegetation   |
|  | Present? Yes No  |
| = Total Cover  |  |
| narks: (Include photo numbers here or on a separate sheet.)                        |  |
|  |  |

SOIL Sampling Point: 1-Y UPL

| Profile Desc               | ription: (Describe                  | to the de                               | oth needed to docu         | ment the   | indicator         | or confirn       | n the absence         | of indicators.)   |
|----------------------------|-------------------------------------|---|----------------------------|------------|-------------------|------------------|-----------------------|---|
| Depth                      | Matrix                              |   |                            | x Feature  |                   |                  |                       |   |
| (inches)                   | Color (moist)                       | %                                       | Color (moist)              | %          | Type <sup>1</sup> | Loc <sup>2</sup> | Texture               | Remarks   |
| 0 - 8                      | 10YR 5/3                            | 95                                      | 10YR 4/1                   | 5          | <u>D</u>          | M                | Silty Clay            |   |
| -                          |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
| -                          |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            | -                                   | <del></del>                             | -                          | -          |                   |                  |                       |   |
|                            |                                     |   |                            |            | -                 |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
| -                          |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            | -                 |                  | -                     |   |
|                            |                                     |   |                            | -          | -                 |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
| -                          |                                     |   |                            |            |                   |                  |                       |   |
| <sup>1</sup> Type: C=Co    | oncentration, D=Dep                 | oletion. RM                             | =Reduced Matrix, M         | S=Maske    | d Sand Gi         | ains.            | <sup>2</sup> Location | : PL=Pore Lining, M=Matrix.   |
| Hydric Soil                |                                     | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | . rougod mann, m           |            |                   | <u> </u>         |                       | for Problematic Hydric Soils <sup>3</sup> :                                   |
| Histosol                   | (A1)                                |   | Polyvalue Belo             | w Surface  | (S8) ( <b>LR</b>  | R R,             | 2 cm M                | luck (A10) (LRR K, L, MLRA 149B)  |
|                            | oipedon (A2)                        |   | MLRA 149B                  | ,          |                   |                  |                       | Prairie Redox (A16) (LRR K, L, R)   |
| Black Hi                   | , ,                                 |   | Thin Dark Surfa            |            |                   |                  |                       | flucky Peat or Peat (S3) (LRR K, L, R)  |
|                            | n Sulfide (A4)<br>d Layers (A5)     |   | Loamy Mucky I Loamy Gleyed |            |                   | (, L)            |                       | urface (S7) ( <b>LRR K, L</b> )<br>lue Below Surface (S8) ( <b>LRR K, L</b> ) |
|                            | d Below Dark Surfac                 | e (A11)                                 | Depleted Matrix            |            | <u>~)</u>         |                  |                       | ark Surface (S9) (LRR K, L)   |
|                            | ark Surface (A12)                   | (* (* )                                 | Redox Dark Su              |            | )                 |                  |                       | anganese Masses (F12) (LRR K, L, R)   |
|                            | lucky Mineral (S1)                  |   | Depleted Dark              |            |                   |                  |                       | ont Floodplain Soils (F19) (MLRA 149B)  |
| -                          | Gleyed Matrix (S4)                  |   | Redox Depress              | sions (F8) |                   |                  |                       | Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )                                  |
| -                          | ledox (S5)                          |   |                            |            |                   |                  |                       | arent Material (F21)  |
|                            | Matrix (S6)<br>rface (S7) (LRR R, I | MI DA 440                               | B\                         |            |                   |                  |                       | hallow Dark Surface (TF12)<br>Explain in Remarks)                             |
| Daik Su                    | ilace (57) (LKK K, I                | VILKA 149                               | <b>D</b> )                 |            |                   |                  | Other (               | Explain in Remarks)   |
| <sup>3</sup> Indicators of | f hydrophytic vegeta                | tion and w                              | etland hydrology mus       | st be pres | ent, unles        | s disturbed      | d or problemation     | :.  |
|                            | _ayer (if observed):                | :                                       |                            |            |                   |                  |                       |   |
| Type: Gr                   | avel                                |   |                            |            |                   |                  |                       |   |
| Depth (inc                 | ches): 8                            |   |                            |            |                   |                  | Hydric Soil           | Present? Yes No   |
| Remarks:                   |                                     |   |                            |            |                   |                  |                       |   |
|                            | -:l -l+                             |   |                            |            |                   |                  |                       |   |
| Hydric S                   | oil absent                          |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |
|                            |                                     |   |                            |            |                   |                  |                       |   |

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: AEP Fostoria to Lin                              | na                   | City/County: Findlay/Hancock Sampling Date: 2022-07-01 |  |  |                                 |  |  |
|--|----------------------|--|--|--|---------------------------------|--|--|
| Applicant/Owner: AEP   |                      | State: Ohio Sampling Point: 1-Z                        |  |  |                                 |  |  |
| Investigator(s): Beth Hollinden,                               |                      | sson Section, Township, Range: OH01 T1N R10E SN9       |  |  |                                 |  |  |
| Landform (hillslope, terrace, etc.): $\underline{\Gamma}$      | Depression           | Local reli   | ief (concave, convex, no                         | one): Concave  | Slope (%): 2                    |  |  |
| Subregion (LRR or MLRA): L                                     | Lat: <u>4</u>        | 41.057472  | Long:8   | 3.70964  | Datum: WGS 84                   |  |  |
| Soil Map Unit Name: SnA  |                      |  |  |  | eation: N/A                     |  |  |
| Are climatic / hydrologic conditions of                        |                      |  |  |  |                                 |  |  |
| Are Vegetation, Soil   | , or Hydrology       | _ significantly distur                                 | bed? Are "Norma                                  | al Circumstances" p  | present? Yes No                 |  |  |
| Are Vegetation, Soil   |                      |  |  | explain any answe  |                                 |  |  |
| SUMMARY OF FINDINGS -  | Attach site ma       | p showing sam  | npling point locati                              | ons, transects   | , important features, etc.      |  |  |
|  |                      |  | Is the Sampled Area                              | <u> </u>   | · ·                             |  |  |
| Hydrophytic Vegetation Present?                                | Yes                  |  | within a Wetland?                                | Yes 🗸  | No                              |  |  |
| Hydric Soil Present? Wetland Hydrology Present?                |                      |  | If yes, optional Wetlan                          |  | _                               |  |  |
| Remarks: (Explain alternative pro                              |                      |  | ir yes, optional wetian                          | d Site ID: 12  |                                 |  |  |
| PEM. ORAM score of 2   |                      |  |  |  |                                 |  |  |
| HYDROLOGY  |                      |  |  |  |                                 |  |  |
| Wetland Hydrology Indicators:                                  |                      |  |  | -  | ators (minimum of two required) |  |  |
| Primary Indicators (minimum of on                              |                      |  |  | Surface Soil Cracks (B6)   |                                 |  |  |
| Surface Water (A1)   |                      | Vater-Stained Leave                                    |  | Drainage Patterns (B10)  |                                 |  |  |
| High Water Table (A2)  |                      | quatic Fauna (B13)                                     |  | Moss Trim Lines (B16)  |                                 |  |  |
| Saturation (A3)  |                      | Marl Deposits (B15)                                    | (04)   | Dry-Season Water Table (C2)  |                                 |  |  |
| Water Marks (B1)   |                      | lydrogen Sulfide Od                                    |  |  |                                 |  |  |
| Sediment Deposits (B2)   |                      |  | es on Living Roots (C3)                          |  | is ble on Aerial Imagery (C9)   |  |  |
| Drift Deposits (B3) Algal Mat or Crust (B4)                    |                      | resence of Reduced                                     | n in Tilled Soils (C6)                           |  | tressed Plants (D1)             |  |  |
| Iron Deposits (B5)   |                      | hin Muck Surface (C                                    |  | <ul><li>✓ Geomorphic Position (D2)</li><li>✓ Shallow Aguitard (D3)</li></ul> |                                 |  |  |
| Inundation Visible on Aerial Im                                |                      | Other (Explain in Ren                                  |  | Siranow Aquitato (D3) Microtopographic Relief (D4)                           |                                 |  |  |
| Sparsely Vegetated Concave                                     |                      | ATTO (EXPIGIT IT TO)                                   | namoj  | FAC-Neutral  |                                 |  |  |
| Field Observations:  |                      |  |  |  |                                 |  |  |
|  | s No                 | Depth (inches):  |  |  |                                 |  |  |
|  | s No                 |  |  |  |                                 |  |  |
| Saturation Present? Ye   |                      |  | pth (inches): 0 Wetland Hydrology Present? Yes V |  |                                 |  |  |
| (includes capillary fringe)  Describe Recorded Data (stream of | gauge, monitoring we | ll. aerial photos, pre                                 | vious inspections), if av                        | ailable:   |                                 |  |  |
| December recorded Data (circum)                                | gaago, montoning wo  | m, donar priotoc, pro                                  | vious inopositorio), ii uv                       | anabio.  |                                 |  |  |
|  |                      |  |  |  |                                 |  |  |
| Remarks:   |                      |  |  |  |                                 |  |  |
| Wetland hydrology pr   | esent                |  |  |  |                                 |  |  |
|  |                      |  |  |  |                                 |  |  |
|  |                      |  |  |  |                                 |  |  |
|  |                      |  |  |  |                                 |  |  |
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|  |                      |  |  |  |                                 |  |  |
|  |                      |  |  |  |                                 |  |  |

| VEGETATION - | I lee scientific name | e of plante |
|--------------|-----------------------|-------------|

| /EGETATION - Use scientific names of plar           | nts.        |             |        | Sampling Point: 1-Z   |
|---|-------------|-------------|--------|---|
| Tree Stratum (Plot size: 30 ft r )                  | Absolute    |             |        | Dominance Test worksheet:   |
| 1   |             | Species?    | Status | Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  |
| 2   |             |             |        | Total Number of Dominant  |
| 3   |             |             |        | Species Across All Strata: 1 (B)  |
| 4   |             |             |        | Percent of Dominant Species   |
| 5   |             |             |        | That Are OBL, FACW, or FAC: 100 (A/B)   |
| 6   |             |             |        | Prevalence Index worksheet:   |
| 7   |             |             |        | Total % Cover of: Multiply by:  |
|   |             | = Total Cov | er er  | OBL species 90 x 1 = 90   |
| Sapling/Shrub Stratum (Plot size: 15 ft r           | )           |             |        | FACW species 10 x 2 = 20  |
| 1   |             |             |        | FAC species $0 \times 3 = 0$  |
| 2.  |             |             |        | FACU species $\frac{0}{2}$ $x 4 = \frac{0}{2}$  |
| 3.  |             |             |        | UPL species $\frac{0}{100}$ $x = \frac{0}{110}$ (B)   |
| 4   |             |             |        | Column Totals: <u>100</u> (A) <u>110</u> (B)  |
| 5   |             |             |        | Prevalence Index = B/A = 1.10   |
| 6.  |             |             |        | Hydrophytic Vegetation Indicators:  |
| 7   |             |             |        | ✓ 1 - Rapid Test for Hydrophytic Vegetation   |
| ··-   |             | = Total Cov | /er    | ✓ 2 - Dominance Test is >50%  |
| Herb Stratum (Plot size: 5 ft r                     |             | - Total Cov | CI     | ✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>   |
| 1. Typha angustifolia                               | 80          |             | OBL    | <ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supporting<br/>data in Remarks or on a separate sheet)</li> </ul> |
| 2. Phalaris arundinacea                             | 10          | ·           | FACW   | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |
| 3. Scirpus atrovirens                               | 10          |             | OBL    | 1   |
| 4   |             |             |        | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic.             |
| 5   |             |             |        | Definitions of Vegetation Strata:   |
| 6   |             |             |        |   |
| 7   |             |             |        | <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.                   |
| 8   |             |             |        | Sapling/shrub – Woody plants less than 3 in. DBH  |
| 9   |             |             |        | and greater than or equal to 3.28 ft (1 m) tall.  |
| 10  |             |             |        | Herb – All herbaceous (non-woody) plants, regardless  |
| 11.   |             |             |        | of size, and woody plants less than 3.28 ft tall.   |
| 12.   |             |             |        | Woody vines – All woody vines greater than 3.28 ft in   |
|   |             | = Total Cov | er     | height.   |
| Woody Vine Stratum (Plot size: 30 ft r              |             |             |        |   |
| 1   |             |             |        |   |
| 2.  |             |             |        |   |
| 3   |             |             |        | Hydrophytic   |
| 4   |             |             |        | Vegetation  |
|   |             | = Total Cov | ver    | Present? Yes No No  |
| Remarks: (Include photo numbers here or on a separa | ate sheet.) |             |        |   |
| Hydrophytic vegetation present.                     |             |             |        |   |
| riyaropriyae vegetation present.                    |             |             |        |   |
|   |             |             |        |   |
|   |             |             |        |   |
|   |             |             |        |   |
|   |             |             |        |   |
|   |             |             |        |   |

SOIL Sampling Point: 1-Z

| Profile Desc            | ription: (Describe           | to the de  | oth needed to docur  | nent the   | indicator         | or confirm            | n the absence o        | of indicators.)   |
|-------------------------|------------------------------|------------|----------------------|------------|-------------------|-----------------------|------------------------|---|
| Depth                   | Matrix                       |            |                      | x Feature  |                   | . 2                   | _                      |   |
| (inches)                | Color (moist)                | %          | Color (moist)        | %          | Type <sup>1</sup> | Loc <sup>2</sup>      | Texture                | Remarks   |
| 0 - 20                  | 10YR 3/1                     | 95         | 10YR 5/6             | 5          | С                 | M                     | Silty Clay             |   |
| -                       |                              |            |                      |            |                   |                       |                        |   |
|                         |                              | <u> </u>   |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       | <del></del>            |   |
|                         |                              |            |                      |            | -                 |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
| _                       |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        | _   |
|                         |                              |            |                      |            |                   |                       | <del></del> ·          | _   |
|                         |                              |            |                      |            |                   |                       |                        |   |
| -                       |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            | -                 | · <del></del>         |                        |   |
|                         | -                            |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
| <sup>1</sup> Type: C=Co | oncentration, D=Dep          | letion, RM | =Reduced Matrix, MS  | S=Maske    | d Sand Gi         | ains.                 | <sup>2</sup> Location: | PL=Pore Lining, M=Matrix.                                   |
| Hydric Soil I           |                              |            |                      |            |                   |                       |                        | for Problematic Hydric Soils <sup>3</sup> :                 |
| Histosol                |                              |            | Polyvalue Belov      |            | (S8) ( <b>LR</b>  | R R,                  |                        | uck (A10) (LRR K, L, MLRA 149B)                             |
|                         | pipedon (A2)                 |            | MLRA 149B)           | •          |                   |                       |                        | Prairie Redox (A16) (LRR K, L, R)                           |
| Black His               | stic (A3)<br>n Sulfide (A4)  |            | Thin Dark Surfa      |            |                   |                       |                        | ucky Peat or Peat (S3) (LRR K, L, R) urface (S7) (LRR K, L) |
|                         | l Layers (A5)                |            | Loamy Gleyed         |            |                   | <b>∖</b> , <b>∟</b> ) |                        | ue Below Surface (S8) (LRR K, L)                            |
|                         | d Below Dark Surfac          | e (A11)    | Depleted Matrix      |            | -,                |                       |                        | ark Surface (S9) (LRR K, L)                                 |
|                         | ark Surface (A12)            |            | Redox Dark Su        |            | )                 |                       |                        | inganese Masses (F12) (LRR K, L, R)                         |
| -                       | lucky Mineral (S1)           |            | Depleted Dark        |            | <del>-</del> 7)   |                       |                        | nt Floodplain Soils (F19) (MLRA 149B)                       |
| -                       | Sleyed Matrix (S4)           |            | Redox Depress        | ions (F8)  |                   |                       |                        | Spodic (TA6) (MLRA 144A, 145, 149B)                         |
| -                       | edox (S5)<br>Matrix (S6)     |            |                      |            |                   |                       |                        | rent Material (F21)<br>nallow Dark Surface (TF12)           |
|                         | rface (S7) ( <b>LRR R, N</b> | MLRA 149   | B)                   |            |                   |                       |                        | Explain in Remarks)   |
|                         | , ,                          |            | ,                    |            |                   |                       |                        | , , ,   |
|                         |                              |            | etland hydrology mus | st be pres | ent, unles        | s disturbed           | d or problematic.      |   |
| Restrictive L           | _ayer (if observed):         | •          |                      |            |                   |                       |                        |   |
| Type:                   |                              |            | <u></u>              |            |                   |                       |                        | .,  |
| Depth (inc              | ches):                       |            |                      |            |                   |                       | Hydric Soil I          | Present? Yes No No  |
| Remarks:                |                              |            |                      |            |                   |                       | •                      |   |
| Hydrics                 | oil present                  |            |                      |            |                   |                       |                        |   |
| riyanoo                 | on procent                   |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
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|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |
|                         |                              |            |                      |            |                   |                       |                        |   |

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: AEP Fostoria to Lima  | City/County: Find                                 | lay/Hancock ;                         | Sampling Date: 2022-07-01     |  |  |
|---|---|---------------------------------------|-------------------------------|--|--|
| Applicant/Owner: AEP  |   |                                       |                               |  |  |
| Investigator(s): Beth Hollinden, Chris Davisson                                   |   |                                       |                               |  |  |
| Landform (hillslope, terrace, etc.): Hillslope                                    |   | _                                     |                               |  |  |
| Subregion (LRR or MLRA): L  |   |                                       |                               |  |  |
|   |   |                                       |                               |  |  |
| Are climatic / hydrologic conditions on the site typical for                      |   |                                       |                               |  |  |
| Are Vegetation, Soil, or Hydrology  |   | Are "Normal Circumstances" pre        |                               |  |  |
| Are Vegetation, Soil, or Hydrology  |   | (If needed, explain any answers       |                               |  |  |
| SUMMARY OF FINDINGS – Attach site m   |   |                                       |                               |  |  |
| Somman of Themos – Attach site in   |   | <u> </u>                              | important reatures, etc.      |  |  |
| Hydrophytic Vegetation Present? Yes   | No Is the Sam                                     |                                       | N - V                         |  |  |
| Hydric Soil Present? Yes  | No within a W                                     | etland? Yes                           | _ No                          |  |  |
|   |   | onal Wetland Site ID:                 |                               |  |  |
| Remarks: (Explain alternative procedures here or in Upland point for Wetland 1-Z. | ,   |                                       |                               |  |  |
|   |   |                                       |                               |  |  |
| HYDROLOGY   |   |                                       |                               |  |  |
| Wetland Hydrology Indicators:   |   | Secondary Indicato                    | ors (minimum of two required) |  |  |
| Primary Indicators (minimum of one is required; chec                              | k all that apply)                                 | Surface Soil C                        | racks (B6)                    |  |  |
| Surface Water (A1)  | Water-Stained Leaves (B9)                         | Drainage Patte                        | erns (B10)                    |  |  |
| High Water Table (A2)   | Aquatic Fauna (B13)                               |                                       | Moss Trim Lines (B16)         |  |  |
|   | Marl Deposits (B15)                               | · · · · · · · · · · · · · · · · · · · | Dry-Season Water Table (C2)   |  |  |
|   | Hydrogen Sulfide Odor (C1)                        | Crayfish Burro                        |                               |  |  |
|   | Oxidized Rhizospheres on Living                   |                                       | ble on Aerial Imagery (C9)    |  |  |
|   | Presence of Reduced Iron (C4)                     | Stunted or Stre                       |                               |  |  |
|   | Recent Iron Reduction in Tilled So                |                                       |                               |  |  |
|   | Thin Muck Surface (C7) Other (Explain in Remarks) | Shallow Aquita<br>Microtopograp       | ` '                           |  |  |
| Sparsely Vegetated Concave Surface (B8)   | Other (Explain in Remarks)                        | FAC-Neutral T                         |                               |  |  |
| Field Observations:   |   | TAO Neutral 1                         | CSI (DO)                      |  |  |
|   | Depth (inches):                                   |                                       |                               |  |  |
|   | Depth (inches):                                   |                                       |                               |  |  |
| Saturation Present? Yes No  | Depth (inches):                                   | Wetland Hydrology Present             | ? Yes No <u> </u>             |  |  |
| (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring v   | well, aerial photos, previous inspec              | tions), if available:                 |                               |  |  |
|   | ,   | ,                                     |                               |  |  |
|   |   |                                       |                               |  |  |
| Remarks:  |   |                                       |                               |  |  |
| Wetland hydrology absent  |   |                                       |                               |  |  |
| , 3,  |   |                                       |                               |  |  |
|   |   |                                       |                               |  |  |
|   |   |                                       |                               |  |  |
|   |   |                                       |                               |  |  |
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|   |   |                                       |                               |  |  |
|   |   |                                       |                               |  |  |
|   |   |                                       |                               |  |  |

| •   | S.                  |            |                       | Sampling Point: 1-Z UPL  |
|---|---------------------|------------|-----------------------|--|
| Tree Stratum (Plot size: 30 ft r )          | Absolute<br>% Cover |            | t Indicator<br>Status | Dominance Test worksheet:  |
| 1   |                     |            |                       | Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)   |
| 2.  |                     |            |                       | Total Number of Dominant Species Across All Strata: 3 (B)  |
| 3<br>4                                      |                     |            |                       | Species Across All Strata: 3 (B)  Percent of Dominant Species  |
| 5   |                     |            |                       | That Are OBL, FACW, or FAC: 33.3 (A/B)   |
| 6   |                     | -          |                       | Prevalence Index worksheet:  |
| 7   |                     |            |                       | Total % Cover of: Multiply by:   |
|   |                     | = Total Co | over                  | OBL species $\frac{0}{50}$ $\times 1 = \frac{0}{100}$  |
| Sapling/Shrub Stratum (Plot size: 15 ft r ) |                     |            |                       | FACW species $\frac{50}{0}$ $\times 2 = \frac{100}{0}$   |
| 1   |                     |            |                       | FAC species $\frac{0}{50}$ $\times 3 = \frac{0}{200}$  |
| 2   |                     |            |                       | FACU species $\frac{50}{0}$ $x 4 = \frac{200}{0}$  |
| 3   |                     |            |                       | UPL species $0$ $x = 0$ $(A)$ $0$ $(B)$  |
| 1.  |                     |            |                       | Goldmin Totals (A) (B)   |
| 5   |                     |            |                       | Prevalence Index = B/A = 3.00  |
| 6   |                     |            |                       | Hydrophytic Vegetation Indicators:   |
| 7   |                     |            |                       | 1 - Rapid Test for Hydrophytic Vegetation  |
|   |                     | = Total Co |                       | 2 - Dominance Test is >50%   |
| Herb Stratum (Plot size: 5 ft r             |                     |            |                       | 3 - Prevalence Index is ≤3.0 <sup>1</sup>  |
| Phalaris arundinacea                        | 50                  |            | FACW                  | 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)                 |
| 2. Cirsium arvense                          | 30                  |            | FACU                  | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  |
| 3. Festuca rubra                            | 20                  |            | FACU                  | <sup>1</sup> Indicators of hydric soil and wetland hydrology must  |
| 4   |                     |            |                       | be present, unless disturbed or problematic.   |
| 5   |                     |            |                       | Definitions of Vegetation Strata:  |
| 5<br>7                                      |                     |            |                       | <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height. |
| B   |                     |            |                       |  |
| 9.  |                     |            |                       | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.          |
| 10  |                     |            |                       | Herb – All herbaceous (non-woody) plants, regardless   |
| 11  |                     |            |                       | of size, and woody plants less than 3.28 ft tall.  |
| 12  |                     |            |                       | Woody vines – All woody vines greater than 3.28 ft in  |
|   | 100%                | = Total Co | over                  | height.  |
| Woody Vine Stratum (Plot size: 30 ft r )    |                     |            |                       |  |
| 1   |                     |            |                       |  |
|   |                     |            |                       |  |
| 2   |                     |            |                       | Hydrophytic  |
| 2.<br>3.                                    |                     |            |                       |  |
| 3   |                     |            |                       | Vegetation   |
|   |                     |            |                       |  |

SOIL Sampling Point: 1-Z UPL

| Profile Desc   | ription: (Describe                       | to the dep  | th needed to docum             | nent the i    | ndicator    | or confirn       | n the absence         | of indicators.)  |
|----------------|--|-------------|--------------------------------|---------------|-------------|------------------|-----------------------|--|
| Depth          | Matrix                                   |             |                                | x Features    | 4           | . 2              |                       |  |
| (inches)       | Color (moist)                            | <u>%</u>    | Color (moist)                  | %             | Type'       | Loc <sup>2</sup> | Texture               | Remarks  |
| 0 - 20         | 10YR 5/3                                 | 100         |                                |               |             |                  | Silty Clay            |  |
| -              |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                | ·             |             |                  |                       |  |
|                | -  | <del></del> |                                | · <del></del> |             |                  |                       |  |
|                |  |             |                                | · <del></del> |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
| -              |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                | -  |             |                                |               |             |                  |                       |  |
|                |  | <del></del> |                                |               |             |                  |                       |  |
|                |  |             |                                | · - <u></u>   |             |                  |                       |  |
| -              |  |             |                                |               |             |                  |                       |  |
|                | -  |             |                                |               |             |                  |                       |  |
|                |  |             |                                | · <del></del> |             |                  |                       |  |
|                | -  |             |                                |               |             |                  |                       |  |
|                |  | letion, RM= | Reduced Matrix, MS             | S=Masked      | Sand Gra    | ains.            | <sup>2</sup> Location | : PL=Pore Lining, M=Matrix.  |
| Hydric Soil I  |  |             | Daharaha Dalar                 | Cf            | (Co) (LDI   |                  |                       | for Problematic Hydric Soils <sup>3</sup> :  |
| Histosol       | oipedon (A2)                             |             | Polyvalue Belov<br>MLRA 149B)  |               | (36) (LKI   | κκ,              |                       | Muck (A10) ( <b>LRR K, L, MLRA 149B</b> ) Prairie Redox (A16) ( <b>LRR K, L, R</b> ) |
| Black His      |  |             | Thin Dark Surfa                |               | RR R, MI    | RA 149B          |                       | flucky Peat or Peat (S3) (LRR K, L, R)   |
|                | n Sulfide (A4)                           |             | Loamy Mucky N                  |               |             | , <b>L</b> )     |                       | urface (S7) (LRR K, L)   |
|                | Layers (A5)                              | - (044)     | Loamy Gleyed I                 |               | 2)          |                  |                       | lue Below Surface (S8) (LRR K, L)  |
| -              | d Below Dark Surfac<br>ark Surface (A12) | e (A11)     | Depleted Matrix Redox Dark Sur |               |             |                  |                       | ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R)                      |
|                | lucky Mineral (S1)                       |             | Depleted Dark S                |               |             |                  |                       | ont Floodplain Soils (F19) (MLRA 149B)   |
| -              | ileyed Matrix (S4)                       |             | Redox Depress                  |               | - /         |                  |                       | Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )   |
| -              | edox (S5)                                |             |                                |               |             |                  |                       | arent Material (F21)   |
|                | Matrix (S6)                              |             |                                |               |             |                  |                       | hallow Dark Surface (TF12)   |
| Dark Sur       | rface (S7) (LRR R, I                     | VILRA 149E  | 3)                             |               |             |                  | Other (               | Explain in Remarks)  |
| 3Indicators of | hvdrophytic vegeta                       | tion and we | tland hydrology mus            | t be prese    | ent. unless | disturbed        | l or problematic      | :.   |
|                | ayer (if observed):                      |             |                                |               |             |                  |                       |  |
| Type:          |  |             |                                |               |             |                  |                       |  |
| Depth (inc     | ches):                                   |             |                                |               |             |                  | Hydric Soil           | Present? Yes No  |
| Remarks:       |  |             |                                |               |             |                  |                       |  |
| Lludria        | oil abaant                               |             |                                |               |             |                  |                       |  |
| nyunc s        | oil absent                               |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |
|                |  |             |                                |               |             |                  |                       |  |

Date: 6/29/2022

|                     |  | Wetland 1-A  |
|---------------------|--|--|
| 2 2                 | Metric 1. Wetland Area (size)  |  |
| max 6 pts. subtota  | Select one size class and assign score.  |  |
|                     | >50 acres (>20.2ha) (6 pts)  |  |
|                     | 25 to <50 acres (10.1 to <20.2ha) (5 pts)<br>10 to <25 acres (4 to <10.1ha) (4 pts)  |  |
|                     | 3 to <10 acres (1.2 to <4ha) (3 pts)   |  |
|                     | 0.3 to <3 acres (0.12 to <1.2ha) (2pts)  |  |
|                     | 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts)   |  |
| 1                   | Metric 2. Upland buffers and surrounding land u  | red)   |
| 7 3                 | Wether 2. Opiana buners and surrounding land a   |  |
| max 14 pts. subtota | 2a. Calculate average buffer width. Select only one and assign score. Do not double chec   | ek.  |
|                     | WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)   |  |
|                     | MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter  | r (4)  |
|                     | NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimet<br>VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)     | er (1)   |
|                     | 2b. Intensity of surrounding land use. Select one or double check and average.   |  |
|                     | VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) |  |
|                     | MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, ne   | w fallow field. (3)  |
|                     | HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)   |  |
| 13 16               | Metric 3. Hydrology.   |  |
| 10                  |  |  |
| max 30 pts. subtota | otal 3a. Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply. 100 year flo  |  |
|                     |  | ream/lake and other human use (1)                                    |
|                     |  | and/upland (e.g. forest), complex (1)                                |
|                     |  | rian or upland corridor (1)<br>on/saturation. Score one or dbl checl |
|                     |  | rmanently inundated/saturated (4)                                    |
|                     |  | undated/saturated (3)<br>inundated (2)                               |
|                     |  | saturated in upper 30cm (12in) (1)                                   |
|                     | 3e. Modifications to natural hydrologic regime. Score one or double check and average.   |  |
|                     | None or none apparent (12) Check all disturbances observed   |  |
|                     | Recovered (7)  Recovering (3)    ditch   point source   filling/gradin   | e (nonstormwater)  |
|                     | Recent or no recovery (1) dike road bed/Ri   |  |
|                     | weir   dredging   stormwater input   other   |  |
|                     |  |  |
| 7 23                | Metric 4. Habitat Alteration and Development.  |  |
|                     |  |  |
| max 20 pts. subtota | 4a. Substrate disturbance. Score one or double check and average.  None or none apparent (4)   |  |
|                     | Recovered (3)  |  |
|                     | Recovering (2)   |  |
|                     | Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  |  |
|                     | Excellent (7)  |  |
|                     | Very good (6)  |  |
|                     | Good (5) Moderately good (4)   |  |
|                     | Fair (3)   |  |
|                     | Poor to fair (2)   |  |
|                     | 4c. Habitat alteration. Score one or double check and average.   |  |
|                     | None or none apparent (9) Check all disturbances observed  |  |
|                     | Recovered (6) mowing shrub/saplin  | - A  |
|                     | Recovering (3) grazing herbaceous. Recent or no recovery (1) clearcutting sedimentation  | aquatic bed removal  |
|                     | selective cutting dredging   | ,  |
| 23                  | woody debris removal farming   |  |
| subtotal this       | toxic pollutantsnutrient enri  | chment   |
| 300.0.0.0           | ruary 2001 jjm   |  |

| 23 subtotal first page 0 23 | storia to Lima Rater  |                  | tollinder, Chris Davisson   Date: 6/29/20 Wetland 1-  |
|-----------------------------|---|------------------|---|
| 0 23                        |   |                  | V   |
| 0 23                        |   |                  |   |
| 0 23                        |   |                  |   |
| 0 63                        |   |                  |   |
|                             | Metric 5. Special Wetlar  | nds.             |   |
| ax 10 pts subtotal          |   |                  |   |
|                             | Check all that apply and score as indicated.                              |                  |   |
|                             | Bog (10)  |                  |   |
|                             | Fen (10) Old growth forest (10)   |                  |   |
|                             | Mature forested wetland (5)   |                  |   |
|                             | Lake Erie coastal/tributary wetland-                                      | unrestricted hyd | drology (10)  |
|                             | Lake Erie coastal/tributary wetland                                       | restricted hydro | logy (5)  |
|                             | Lake Plain Sand Prairies (Oak Ope   | nings) (10)      |   |
|                             | Relict Wet Prairies (10)  |                  |   |
|                             | Known occurrence state/federal thr<br>Significant migratory songbird/wate |                  |   |
|                             | Category 1 Wetland. See Question  |                  |   |
|                             |   |                  |   |
| -2 21                       | wetric 6. Plant commun  | iities, iiit     | erspersion, microtopography.  |
| max 20 pts. subtotal        | Co. Mada d Manadatian Communities   | Venetation       | Community Cover Scale   |
| lax 20 pts. Subtotal        | 6a. Wetland Vegetation Communities. Score all present using 0 to 3 scale. | vegetation<br>0  | Community Cover Scale Absent or comprises < 0.1ha (0.2471 acres) contiguous are                                   |
|                             | Aquatic bed   | 1                | Present and either comprises small part of wetland's  |
|                             | Emergent  |                  | vegetation and is of moderate quality, or comprises a   |
|                             | Shrub   |                  | significant part but is of low quality  |
|                             | Forest  | 2                | Present and either comprises significant part of wetland's  |
|                             | Mudflats  |                  | vegetation and is of moderate quality or comprises a sma  |
|                             | Open water<br>Other   | 3                | part and is of high quality  Present and comprises significant part, or more, of wetland                          |
|                             | 6b. horizontal (plan view) Interspersion.                                 | 3                | vegetation and is of high quality   |
|                             | Select only one.  | -                |   |
|                             | High (5)  | Narrative D      | Description of Vegetation Quality   |
|                             | Moderately high(4)  | low              | Low spp diversity and/or predominance of nonnative or   |
|                             | Moderate (3)  |                  | disturbance tolerant native species   |
|                             | Moderately low (2)  | mod              | Native spp are dominant component of the vegetation,<br>although nonnative and/or disturbance tolerant native spp |
|                             | None (0)  |                  | can also be present, and species diversity moderate to  |
|                             | 6c. Coverage of invasive plants. Refer                                    |                  | moderately high, but generally w/o presence of rare   |
|                             | to Table 1 ORAM long form for list. Add                                   |                  | threatened or endangered spp  |
|                             | or deduct points for coverage   | high             | A predominance of native species, with nonnative spp  |
|                             | Extensive >75% cover (-5)   |                  | and/or disturbance tolerant native spp absent or virtually  |
|                             | Moderate 25-75% cover (-3)<br>Sparse 5-25% cover (-1)                     |                  | absent, and high spp diversity and often, but not always,<br>the presence of rare, threatened, or endangered spp  |
|                             | Nearly absent <5% cover (0)   | -                | the presence of rare, threatened, of endangered spp   |
|                             | Absent (1)  | Mudflat and      | d Open Water Class Quality  |
|                             | 6d. Microtopography.  | 0                | Absent <0.1ha (0.247 acres)   |
|                             | Score all present using 0 to 3 scale.                                     | 1                | Low 0.1 to <1ha (0.247 to 2.47 acres)   |
|                             | O Vegetated hummucks/tussucks   | 2                | Moderate 1 to <4ha (2.47 to 9.88 acres)   |
|                             | Coarse woody debris >15cm (6in)   | 3                | High 4ha (9.88 acres) or more   |
|                             | O Standing dead >25cm (10in) dbh  | Microtono        | graphy Cover Scale  |
|                             | Amphibian breeding pools  | 0                | Graphy Cover Scale Absent   |
|                             |   | 1                | Present very small amounts or if more common  |
|                             |   | •                | of marginal quality   |
|                             |   | 2                | Present in moderate amounts, but not of highest   |
|                             |   |                  | quality or in small amounts of highest quality  |
|                             |   | 3                | Present in moderate or greater amounts  |

Date: 6/29/2022 Rater(s): Beth Hollinden, Chris Davisson Fostoria to Lina wetland 1-B otal first pa Metric 5. Special Wetlands. 20 Check all that apply and score as indicated. 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 Prairies (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbird/water fowl habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10) Metric 6. Plant communities, interspersion, microtopography. Vegetation Community Cover Scale 6a. Wetland Vegetation Communities. Absent or comprises <0.1ha (0.2471 acres) contiguous area Score all present using 0 to 3 scale. Present and either comprises small part of wetland's Aquatic bed Emergent vegetation and is of moderate quality, or comprises a significant part but is of low quality Shrub Present and either comprises significant part of wetland's Forest vegetation and is of moderate quality or comprises a small Mudflats part and is of high quality Open water Present and comprises significant part, or more, of wetland's Other 6b. horizontal (plan view) Interspersion. vegetation and is of high quality Select only one. Narrative Description of Vegetation Quality High (5) Moderately high(4) Low spp diversity and/or predominance of nonnative or disturbance tolerant native species Moderate (3) Moderately low (2) mod Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp Low (1) None (0) can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add threatened or endangered spp or deduct points for coverage high A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually Extensive >75% cover (-5) Moderate 25-75% cover (-3) absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Mudflat and Open Water Class Quality Absent (1) Absent < 0.1ha (0.247 acres) 0 6d. Microtopography. Score all present using 0 to 3 scale. Low 0.1 to <1ha (0.247 to 2.47 acres) Vegetated hummucks/tussucks Moderate 1 to <4ha (2.47 to 9.88 acres) 3 High 4ha (9.88 acres) or more Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Amphibian breeding pools Microtopography Cover Scale Absent 0 Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or in small amounts of highest quality Present in moderate or greater amounts and of highest quality

| Site: AEP Fostoria to Lima Rater  | (s): Beth      | Hollinden, Chris Dawisson   | Date: 6/29/202   |
|---|----------------|---|--|
| 29  |                |   | Wetland 1-C  |
| subtotal first page   |                |   |  |
| O 23 Metric 5. Special Wetlan   | ıds.           |   |  |
| Check all that apply and score as indicated.  Bog (10)                      |                |   |  |
| Fen (10)  |                |   |  |
| Old growth forest (10)  |                |   |  |
| Mature forested wetland (5)   |                | d1 (40)   |  |
| Lake Erie coastal/tributary wetland-t Lake Erie coastal/tributary wetland-r |                |   |  |
| Lake Plain Sand Prairies (Oak Oper  |                | 10g <b>y</b> (0)  |  |
| Relict Wet Prairies (10)  |                |   |  |
| Known occurrence state/federal three  | eatened or end | angered species (10)  |  |
| Significant migratory songbird/water Category 1 Wetland. See Question       |                |   |  |
| Motrio 6 Dlant commun   |                |   | enagraphy  |
| Metric 6. Plant commun  | ities, int     | erspersion, microi  | topograpny.  |
| max 20 pts. subtotal 6a. Wetland Vegetation Communities.                    | Vegetation     | Community Cover Scale   |  |
| Score all present using 0 to 3 scale.                                       | 0              | Absent or comprises <0.1ha (0.                                    | 2471 acres) contiguous area  |
| Aquatic bed   | 1              | Present and either comprises si                                   |  |
| \ Emergent  |                | vegetation and is of moderate                                     |  |
| Shrub<br>Forest   |                | significant part but is of low qu                                 |  |
| Mudflats  | 2              | Present and either comprises si<br>vegetation and is of moderate  |  |
| Open water  |                | part and is of high quality                                       | quality of comprises a small   |
| Other   | 3              | Present and comprises significa                                   | ant part, or more, of wetland's  |
| 6b. horizontal (plan view) Interspersion.                                   |                | vegetation and is of high qual                                    | ity  |
| Select only one.  | Normative D    | anariation of Variation Ovality                                   |  |
| High (5) Moderately high(4)   | low            | escription of Vegetation Quality  Low spp diversity and/or predor |  |
| Moderate (3)  | 1011           | disturbance tolerant native sp                                    |  |
| Moderately low (2)  | mod            | Native spp are dominant compo                                     |  |
| Low (1)   |                | although nonnative and/or dis                                     | The state of the s |
| None (0)  6c. Coverage of invasive plants. Refer                            |                | can also be present, and spec<br>moderately high, but generally   |  |
| to Table 1 ORAM long form for list. Add                                     |                | threatened or endangered spi                                      |  |
| or deduct points for coverage   | high           | A predominance of native speci                                    |  |
| Extensive >75% cover (-5)   |                | and/or disturbance tolerant na                                    |  |
| Moderate 25-75% cover (-3)  |                | absent, and high spp diversity                                    |  |
| Sparse 5-25% cover (-1) Nearly absent <5% cover (0)                         | -              | the presence of rare, threaten                                    | ned, or endangered spp   |
| Absent (1)  | Mudflat and    | d Open Water Class Quality  |  |
| 6d. Microtopography.  | 0              | Absent <0.1ha (0.247 acres)                                       |  |
| Score all present using 0 to 3 scale.                                       | 1              | Low 0.1 to <1ha (0.247 to 2.47                                    |  |
| O Vegetated hummucks/tussucks   | 2              | Moderate 1 to <4ha (2.47 to 9.                                    | 88 acres)  |
| Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh             | 3              | High 4ha (9.88 acres) or more                                     |  |
| \ Amphibian breeding pools  | Microtopoo     | raphy Cover Scale   |  |
|   | 0              | Absent  |  |
|   | 1              | Present very small amounts or<br>of marginal quality              |  |
|   | 2              | Present in moderate amounts, quality or in small amounts of       | highest quality  |
|   | 3              | Present in moderate or greater<br>and of highest quality          | amounts  |

21

selective cutting

toxic pollutants

woody debris removal

dredging

nutrient enrichment

farming

subtotal this page last revised 1 February 2001 jjm

| ite: AEP Fostoria to Lima Ri  | ater(s): Beth t      | follinden, clais Davisson  | Date: 6/29/201             |
|---|----------------------|--|----------------------------|
|   |                      |  | Wetland 1-1                |
| 30  |                      |  |                            |
| subtotal first page   |                      |  |                            |
| O 30 Metric 5. Special Wes  | tlands.              |  | *                          |
| Check all that apply and score as indical   | ted.                 |  |                            |
| Bog (10)<br>Fen (10)  |                      |  |                            |
| Old growth forest (10)  |                      |  |                            |
| Mature forested wetland (5)   |                      |  |                            |
| Lake Erie coastal/tributary well  |                      |  |                            |
| Lake Erie coastal/tributary we  |                      | logy (5)   |                            |
| Lake Plain Sand Prairies (Oak Relict Wet Prairies (10)                                  | Openings) (10)       |  |                            |
| Known occurrence state/feder  | al threatened or end | angered species (10)   |                            |
| Significant migratory songbird  |                      |  |                            |
| Category 1 Wetland. See Que   |                      |  |                            |
| 2 Metric 6. Plant comm  | nunities, int        | erspersion, microt   | opography.                 |
| 2 32 Metric 6. Plant comm   |                      | ,  |                            |
| c20 pts. subtotal 6a. Wetland Vegetation Communities.                                   | Vegetation           | Community Cover Scale  |                            |
| Score all present using 0 to 3 scale.   | 0                    | Absent or comprises <0.1ha (0.2  | 2471 acres) contiguous are |
| Aquatic bed   | 1                    | Present and either comprises sn<br>vegetation and is of moderate   |                            |
| Emergent Shrub  |                      | significant part but is of low qu  |                            |
| Forest  | 2                    | Present and either comprises sig   |                            |
| Mudflats  |                      | vegetation and is of moderate  |                            |
| Open water  |                      | part and is of high quality  |                            |
| Other   | 3                    | Present and comprises significa  |                            |
| <ol> <li>6b. horizontal (plan view) Interspersion.</li> <li>Select only one.</li> </ol> | -                    | vegetation and is of high qualit   | ıy                         |
| High (5)  | Narrative D          | escription of Vegetation Quality   |                            |
| Moderately high(4)  | low                  | Low spp diversity and/or predom  | ninance of nonnative or    |
| Moderate (3)  |                      | disturbance tolerant native spe  |                            |
| Moderately low (2)  | mod                  | Native spp are dominant compo  |                            |
| Low (1)<br>None (0)   |                      | although nonnative and/or dist<br>can also be present, and spec  |                            |
| 6c. Coverage of invasive plants. Refer  |                      | moderately high, but generally   |                            |
| to Table 1 ORAM long form for list. Add   |                      | threatened or endangered spp   |                            |
| or deduct points for coverage   | high                 | A predominance of native specie  |                            |
| Extensive >75% cover (-5)  Moderate 25-75% cover (-3)                                   |                      | and/or disturbance tolerant na<br>absent, and high spp diversity   |                            |
| Sparse 5-25% cover (-1)   |                      | the presence of rare, threaten   |                            |
| Nearly absent <5% cover (0)   | -                    |  | and a second               |
| Absent (1)  | Mudflat and          | d Open Water Class Quality   |                            |
| 6d. Microtopography.  | 0                    | Absent <0.1ha (0.247 acres)  |                            |
| Score all present using 0 to 3 scale.  Vegetated hummucks/tussuck                       | 1 2                  | Low 0.1 to <1ha (0.247 to 2.47 to 4.47 |                            |
| Coarse woody debris >15cm (   |                      | Moderate 1 to <4ha (2.47 to 9.8<br>High 4ha (9.88 acres) or more   | ob acres)                  |
| Standing dead >25cm (10in) d  |                      | Tright 41ta (5.55 acres) of filore   |                            |
| \ Amphibian breeding pools  |                      | raphy Cover Scale  |                            |
|   | 0                    | Absent   |                            |
|   | 1                    | Present very small amounts or i<br>of marginal quality   |                            |
|   | 2                    | Present in moderate amounts, be<br>quality or in small amounts of  |                            |
|   | 3                    | Present in moderate or greater and of highest quality  |                            |

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| Site: AEP For        | storia to Lima Rat  | er(s): Beth t | tollinden, cwis Davisson  | Date: 6/30/2022             |
|----------------------|---|---------------|---|-----------------------------|
| 16                   | ]   |               | ,   | wetland 1-E                 |
| subtotal first pa    | age .   |               |   |                             |
| 0 16                 | Metric 5. Special Wetl  | ands.         |   |                             |
| max 10 pts subtotal  | Check all that apply and score as indicated   | l,            |   |                             |
|                      | Bog (10)<br>Fen (10)  |               |   |                             |
|                      | Old growth forest (10)  |               |   |                             |
|                      | Mature forested wetland (5)   |               |   |                             |
|                      | Lake Erie coastal/tributary wetlar  |               |   |                             |
|                      | Lake Plain Sand Prairies (Oak O   |               | ology (3)   |                             |
|                      | Relict Wet Prairies (10)  |               |   |                             |
|                      | Known occurrence state/federal  |               |   |                             |
|                      | Significant migratory songbird/wa Category 1 Wetland. See Quest                     |               |   |                             |
| -3 13                | Metric 6. Plant commu   |               |   | pography.                   |
| max 20 pts. subtotal | 6a. Wetland Vegetation Communities.   | Vegetation    | Community Cover Scale   |                             |
|                      | Score all present using 0 to 3 scale.   | 0             | Absent or comprises < 0.1ha (0.24   |                             |
|                      | Aquatic bed    Emergent   | 1             | Present and either comprises sma<br>vegetation and is of moderate of  |                             |
|                      | Shrub   |               | significant part but is of low qua  |                             |
|                      | Forest  | 2             | Present and either comprises sign   |                             |
|                      | Mudflats  |               | vegetation and is of moderate q   | uality or comprises a small |
|                      | Open water<br>Other   | 3             | part and is of high quality  Present and comprises significant  | t part or more of wetland's |
|                      | 6b. horizontal (plan view) Interspersion.   |               | vegetation and is of high quality   |                             |
|                      | Select only one.  |               |   |                             |
|                      | High (5) Moderately high(4)   | Narrative D   | Description of Vegetation Quality  Low spp diversity and/or predomin  | nance of nonnative or       |
|                      | Moderate (3)  | 1011          | disturbance tolerant native spec  |                             |
|                      | Moderately low (2)  | mod           | Native spp are dominant component   | ent of the vegetation,      |
|                      | V Low (1)<br>None (0)   |               | although nonnative and/or distu   |                             |
|                      | 6c. Coverage of invasive plants. Refer  |               | can also be present, and species moderately high, but generally was a second control of the can be seen as a second control of the can |                             |
|                      | to Table 1 ORAM long form for list. Add   |               | threatened or endangered spp  | we presence of fale         |
|                      | or deduct points for coverage   | high          | A predominance of native species  | s, with nonnative spp       |
|                      | Extensive >75% cover (-5)  Moderate 25-75% cover (-3)                               |               | and/or disturbance tolerant national absent, and high spp diversity a   | ve spp absent or virtually  |
|                      | Sparse 5-25% cover (-1)   |               | the presence of rare, threatened  | d, or endangered spp        |
|                      | Nearly absent <5% cover (0)   |               |   | - Transfered Opp            |
|                      | Absent (1)  |               | Open Water Class Quality  |                             |
|                      | <ol> <li>Microtopography.</li> <li>Score all present using 0 to 3 scale.</li> </ol> | 0             | Absent <0.1ha (0.247 acres)<br>Low 0.1 to <1ha (0.247 to 2.47 ac  | orac)                       |
|                      | Vegetated hummucks/tussucks   | 2             | Moderate 1 to <4ha (2.47 to 9.88  |                             |
|                      | O Coarse woody debris >15cm (6in  |               | High 4ha (9.88 acres) or more   | 461667                      |
|                      | Standing dead >25cm (10in) dbh  |               |   |                             |
|                      | Amphibian breeding pools  | Microtopog    | Absent  |                             |
|                      |   | 1             | Present very small amounts or if r  | more common                 |
|                      |   |               | of marginal quality   |                             |
|                      |   | 2             | Present in moderate amounts, bu   | t not of highest            |
|                      |   | 3             | quality or in small amounts of hi   |                             |
|                      |   | 3             | Present in moderate or greater ar   | nounts                      |

13

Date: 6/30/2022 Chris Pavisson Rater(s): Beth Hollinder Site: ASP Fostoria to Lima wetland 1-F subtotal first pa Metric 5. Special Wetlands. nax 10 pts. Check all that apply and score as indicated. 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 Prairies (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbird/water fowl habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10) Metric 6. Plant communities, interspersion, microtopography. Vegetation Community Cover Scale 6a. Wetland Vegetation Communities. Absent or comprises <0.1ha (0.2471 acres) contiguous area Score all present using 0 to 3 scale. Present and either comprises small part of wetland's Aquatic bed Emergent vegetation and is of moderate quality, or comprises a significant part but is of low quality Shrub Present and either comprises significant part of wetland's Forest vegetation and is of moderate quality or comprises a small Mudflats part and is of high quality Open water Present and comprises significant part, or more, of wetland's 3 Other vegetation and is of high quality 6b. horizontal (plan view) Interspersion. Select only one. Narrative Description of Vegetation Quality High (5) Low spp diversity and/or predominance of nonnative or Moderately high(4) low disturbance tolerant native species Moderate (3) Native spp are dominant component of the vegetation, Moderately low (2) mod although nonnative and/or disturbance tolerant native spp Low (1) None (0) can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add threatened or endangered spp or deduct points for coverage high A predominance of native species, with nonnative spp Extensive >75% cover (-5) and/or disturbance tolerant native spp absent or virtually Moderate 25-75% cover (-3) absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) Mudflat and Open Water Class Quality 6d. Microtopography. 0 Absent <0.1ha (0.247 acres) Score all present using 0 to 3 scale. 1 Low 0.1 to <1ha (0.247 to 2.47 acres) O Vegetated hummucks/tussucks 2 Moderate 1 to <4ha (2.47 to 9.88 acres) 3 Coarse woody debris >15cm (6in) High 4ha (9.88 acres) or more Standing dead >25cm (10in) dbh Amphibian breeding pools Microtopography Cover Scale Absent Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or in small amounts of highest quality Present in moderate or greater amounts and of highest quality

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last revised 1 February 2001 jjm

| Site: AEP Fostoria to Lima Rate  | r(s): Beth       | Hollinden, au's pavisson Date: 6/30/200  |
|--|------------------|--|
| 15   |                  | wetland 1-G  |
| Metric 5. Special Wetlar   | nds.             |  |
| Check all that apply and score as indicated.  Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland- Lake Plain Sand Prairies (Oak Ope Relict Wet Prairies (10) | restricted hydr  | vdrology (10)<br>ology (5)   |
| Known occurrence state/federal thru Significant migratory songbird/water   | r fowl habitat o | r usage (10)   |
| Category 1 Wetland. See Question   | 1 Qualitative I  | Rating (-10) terspersion, microtopography.   |
| max 20 pts. subtotal 6a. Wetland Vegetation Communities.   | Vegetation       | Community Cover Scale  |
| Score all present using 0 to 3 scale.  | 0                | Absent or comprises <0.1ha (0.2471 acres) contiguous area  |
| Aquatic bed    Lagrange   Emergent     Shrub   | 1                | Present and either comprises small part of wetland's<br>vegetation and is of moderate quality, or comprises a<br>significant part but is of low quality  |
| Forest Mudflats Open water   | 2                | Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality  |
| Other6b. horizontal (plan view) Interspersion.   | 3                | Present and comprises significant part, or more, of wetland's<br>vegetation and is of high quality   |
| Select only one.   | N                |  |
| High (5) Moderately high(4)  | low              | Description of Vegetation Quality  |
| Moderate (3)   | 1044             | Low spp diversity and/or predominance of nonnative or disturbance tolerant native species  |
| Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add  | mod              | Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp |
| or deduct points for coverage  | high             | A predominance of native species, with nonnative spp   |
| Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)   |                  | and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp   |
| Nearly absent <5% cover (0) Absent (1)   | Mudflet          | 10 W-t- OL O W   |
| 6d. Microtopography.   | 0                | d Open Water Class Quality Absent <0.1ha (0.247 acres)   |
| Score all present using 0 to 3 scale.  | 1                | Low 0.1 to <1ha (0.247 acres)  |
| Vegetated hummucks/tussucks  | 2                | Moderate 1 to <4ha (2.47 to 9.88 acres)  |
| Coarse woody debris >15cm (6in)  | 3                | High 4ha (9.88 acres) or more  |
| <ul><li>⊘ Standing dead &gt;25cm (10in) dbh</li><li>⊘ Amphibian breeding pools</li></ul>   | Microtopog       | raphy Cover Scale  |
|  | 0                | Absent   |
|  | 1                | Present very small amounts or if more common of marginal quality   |
|  | 2                | Present in moderate amounts, but not of highest quality or in small amounts of highest quality   |
| 12   | 3                | Present in moderate or greater amounts and of highest quality  |

# Recovering (2)

Recent or no recovery (1) Habitat development. Select only one and assign score. 4b. Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)

4c. Habitat alteration. Score one or double check and average Check all disturbances observed None or none apparent (9) shrub/sapling removal mowing Recovered (6) herbaceous/aquatic bed removal Recovering (3) grazing sedimentation clearcutting Recent or no recovery (1) selective cutting dredging farming woody debris removal nutrient enrichment toxic pollutants

last revised 1 February 2001 jjm

Date: 6/30/2022 Rater(s): Beth Hollinder, Chris Davisson Site: AEP Fostoria to Lima wetland 1-H Metric 5. Special Wetlands. Check all that apply and score as indicated. 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 Prairies (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbird/water fowl habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10) Metric 6. Plant communities, interspersion, microtopography. 6a. Wetland Vegetation Communities. **Vegetation Community Cover Scale** Absent or comprises <0.1ha (0.2471 acres) contiguous area Score all present using 0 to 3 scale. Aquatic bed Present and either comprises small part of wetland's Emergent vegetation and is of moderate quality, or comprises a Shrub significant part but is of low quality Present and either comprises significant part of wetland's Forest vegetation and is of moderate quality or comprises a small Mudflats part and is of high quality Open water Other 3 Present and comprises significant part, or more, of wetland's 6b. horizontal (plan view) Interspersion. vegetation and is of high quality Select only one. Narrative Description of Vegetation Quality High (5) Low spp diversity and/or predominance of nonnative or Moderately high(4) Moderate (3) disturbance tolerant native species Native spp are dominant component of the vegetation, Moderately low (2) mod Low (1) although nonnative and/or disturbance tolerant native spp None (0) can also be present, and species diversity moderate to 6c. Coverage of invasive plants. Refer moderately high, but generally w/o presence of rare to Table 1 ORAM long form for list. Add threatened or endangered spp or deduct points for coverage high A predominance of native species, with nonnative spp Extensive >75% cover (-5) and/or disturbance tolerant native spp absent or virtually Moderate 25-75% cover (-3) absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) Mudflat and Open Water Class Quality Absent < 0.1ha (0.247 acres) 0 6d. Microtopography. Score all present using 0 to 3 scale. Low 0.1 to <1ha (0.247 to 2.47 acres) Vegetated hummucks/tussucks Moderate 1 to <4ha (2.47 to 9.88 acres) High 4ha (9.88 acres) or more Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Microtopography Cover Scale Amphibian breeding pools 0 Absent Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or in small amounts of highest quality Present in moderate or greater amounts and of highest quality

12

toxic pollutants

nutrient enrichment

last revised 1 February 2001 jjm

Date: 6/30/2022 Rater(s): Beth Hollinder, Cluis Davisson Site: ASP FOSTORIA to Lima Wetland 1-I L Metric 5. Special Wetlands. max 10 pts subtotal Check all that apply and score as indicated. 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 Prairies (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbird/water fowl habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10) Metric 6. Plant communities, interspersion, microtopography. 6a. Wetland Vegetation Communities. **Vegetation Community Cover Scale** Absent or comprises <0.1ha (0.2471 acres) contiguous area Score all present using 0 to 3 scale. Aquatic bed Present and either comprises small part of wetland's Emergent vegetation and is of moderate quality, or comprises a Shrub significant part but is of low quality Forest Present and either comprises significant part of wetland's Mudflats vegetation and is of moderate quality or comprises a small Open water part and is of high quality Other Present and comprises significant part, or more, of wetland's 6b. horizontal (plan view) Interspersion. vegetation and is of high quality Select only one. High (5) Narrative Description of Vegetation Quality Moderately high(4) Low spp diversity and/or predominance of nonnative or Moderate (3) disturbance tolerant native species Moderately low (2) mod Native spp are dominant component of the vegetation, Low (1) although nonnative and/or disturbance tolerant native spp None (0) can also be present, and species diversity moderate to 6c. Coverage of invasive plants. Refer moderately high, but generally w/o presence of rare to Table 1 ORAM long form for list. Add threatened or endangered spp or deduct points for coverage A predominance of native species, with nonnative spp high Extensive >75% cover (-5) and/or disturbance tolerant native spp absent or virtually Moderate 25-75% cover (-3) absent, and high spp diversity and often, but not always, Sparse 5-25% cover (-1) the presence of rare, threatened, or endangered spp Nearly absent <5% cover (0) Absent (1) Mudflat and Open Water Class Quality 6d. Microtopography. 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) Vegetated hummucks/tussucks Moderate 1 to <4ha (2.47 to 9.88 acres) 2 Coarse woody debris >15cm (6in) High 4ha (9.88 acres) or more Standing dead >25cm (10in) dbh Amphibian breeding pools Microtopography Cover Scale Absent Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or in small amounts of highest quality Present in moderate or greater amounts and of highest quality

4

| Site: A     | EP FO                | storia to Lima R   | ater(s): Beth Hollinden, Cluris Davisson   | Date: 6/30/22   |
|-------------|----------------------|--|--|---|
| 1           | 1                    | Metric 1. Wetland Are  | ea (size).   | wetland 1-5   |
| max 6 pts.  | subtotal             | Select one size class and assign score.  >50 acres (>20.2ha) (6 pts)  25 to <50 acres (10.1 to <20.2  10 to <25 acres (4 to <10.1ha)  3 to <10 acres (1.2 to <4ha) (3  0.3 to <3 acres (0.12 to <1.2ha)  0.1 to <0.3 acres (0.04 to <0.1  <0.1 acres (0.04ha) (0 pts)  | ) (4 pts)<br>3 pts)<br>a) (2pts)   |   |
| 7           | 8                    |  | ers and surrounding land us  | e.  |
| max 14 pts. | subtotal             | WIDE. Buffers average 50m ( MEDIUM. Buffers average 25 NARROW. Buffers average 1: VERY NARROW. Buffers ave 2b. Intensity of surrounding land use. S VERY LOW. 2nd growth or ol LOW. Old field (>10 years), si MODERATELY HIGH. Reside  | ect only one and assign score. Do not double check. 164ft) or more around wetland perimeter (7) m to <50m (82 to <164ft) around wetland perimeter (40 m to <25m (32ft to <82ft) around wetland perimeter (91 m to <32ft) around wetland perimeter (92 m to <32ft) around wetland perimeter (93 m to <32ft) around wetland perimeter (94 m to <32ft) around wetland perimeter (95 m to <32ft) around wetland perimeter (95 m to <32ft) around wetland perimeter (96 m to <32ft) around wetland perimeter (97 m to <32ft) around wetland perimeter  | (1)   |
| 18          | 16                   | Metric 3. Hydrology.   | postalo, for dispping, mining consumative,   |   |
| max 30 pts  | subtotal             | None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1)  | water (3)  water (3)  or stream) (5)  one and assign score.  Check all disturbances observed  ditch  tile  dike  weir  stormwater input  100 year flood  Between stream  Part of ripariar  Part of ripariar  Semi- to perm  Regularly inur Seasonally inur Seasonally inur Seasonally sa  gegime. Score one or double check and average.  Check all disturbances observed  ditch  tile  dike  weir  stormwater input  100 year flood Between stream  Part of injection  Semi- to perm  Regularly inur Seasonally inur Seasonal | Iplain (1) Implain (1) Implake and other human use (1) Implake and other human use (1) Implain (e.g. forest), complex (1) In or upland corridor (1) Isaturation. Score one or dbl check annently inundated/saturated (4) Indated/saturated (3) Indated (2) Inturated in upper 30cm (12in) (1) Implication (1) |
| 9           | 25                   | Metric 4. Habitat Alte   | eration and Development.   |   |
| max 20 pts. | subtotal             | 4a. Substrate disturbance. Score one of None or none apparent (4)  Recovered (3)  Recovering (2)  Recent or no recovery (1)  4b. Habitat development. Select only of Excellent (7)  Very good (6)  Good (5)  Moderately good (4)  Fair (3)  Poor to fair (2)  Poor (1)  4c. Habitat alteration. Score one or dou | ne and assign score.<br>sble check and average.  |   |
| Sul         | 2S<br>blotal this pa | Recovered (6)  Recovering (3)  Recent or no recovery (1)   | Check all disturbances observed  mowing grazing clearcutting woody debris removal toxic pollutants  shrub/sapling herbaceous/a sedimentation dredging farming nutrient enrich  | quatic bed removal  |

Site: AEP Fostoria to Lima Rater(s): Beth Hollinder, chis Davisson Date: 6/30/2022 Wetland 1-5 total first pag Metric 5. Special Wetlands. max 10 pts Check all that apply and score as indicated. 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 Prairies (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbird/water fowl habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10) Metric 6. Plant communities, interspersion, microtopography. 6a. Wetland Vegetation Communities. Vegetation Community Cover Scale Absent or comprises <0.1ha (0.2471 acres) contiguous area Score all present using 0 to 3 scale. 0 Present and either comprises small part of wetland's Aquatic bed vegetation and is of moderate quality, or comprises a Emergent Shrub significant part but is of low quality Present and either comprises significant part of wetland's Forest vegetation and is of moderate quality or comprises a small Mudflats Open water part and is of high quality Present and comprises significant part, or more, of wetland's Other 6b. horizontal (plan view) Interspersion. vegetation and is of high quality Select only one. Narrative Description of Vegetation Quality High (5) Moderately high(4) Low spp diversity and/or predominance of nonnative or disturbance tolerant native species Moderate (3) Moderately low (2) Native spp are dominant component of the vegetation, mod although nonnative and/or disturbance tolerant native spp Low (1) None (0) can also be present, and species diversity moderate to 6c. Coverage of invasive plants. Refer moderately high, but generally w/o presence of rare to Table 1 ORAM long form for list. Add threatened or endangered spp or deduct points for coverage high A predominance of native species, with nonnative spp Extensive >75% cover (-5) and/or disturbance tolerant native spp absent or virtually Moderate 25-75% cover (-3) absent, and high spp diversity and often, but not always, Sparse 5-25% cover (-1) the presence of rare, threatened, or endangered spp Nearly absent <5% cover (0) Mudflat and Open Water Class Quality Absent (1) 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) Vegetated hummucks/tussucks Moderate 1 to <4ha (2.47 to 9.88 acres) 3 Coarse woody debris >15cm (6in) High 4ha (9.88 acres) or more Standing dead >25cm (10in) dbh Amphibian breeding pools Microtopography Cover Scale Absent 0 Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or in small amounts of highest quality Present in moderate or greater amounts and of highest quality

30

grazing

clearcutting

selective cutting

toxic pollutants

woody debris removal

herbaceous/aquatic bed removal

sedimentation

nutrient enrichment

dredging

farming

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Recovering (3)

Recent or no recovery (1)

| Site: AEP Fostoria to Lima Rater                                     | (s): Beth H     | ollinden, Chris Davisson  | Date: 6/30/2022  |
|--|-----------------|---|--|
| 42   |                 |   | wetland 1-K  |
| subtotal first page  |                 |   |  |
| O 42 Metric 5. Special Wetlan  | ıds.            |   |  |
| max 10 pts. subtotal Check all that apply and score as indicated.    |                 |   |  |
| Bog (10)<br>Fen (10)   |                 |   |  |
| Old growth forest (10)   |                 |   |  |
| Mature forested wetland (5)  |                 |   |  |
| Lake Erie coastal/tributary wetland-t                                | unrestricted hy | drology (10)  |  |
| Lake Erie coastal/tributary wetland-r                                |                 | ology (5)   |  |
| Lake Plain Sand Prairies (Oak Oper                                   | nings) (10)     |   |  |
| Relict Wet Prairies (10)  Known occurrence state/federal thre        | atened or end   | angered species (10)  |  |
| Significant migratory songbird/water                                 |                 |   |  |
| Category 1 Wetland. See Question                                     | 1 Qualitative F | Rating (-10)  |  |
| 46 Metric 6. Plant commun  | ities, int      | erspersion, microt  | opography.   |
| max 20 pts. subtotal 6a. Wetland Vegetation Communities.             | Vegetation      | Community Cover Scale   |  |
| Score all present using 0 to 3 scale.                                | 0               | Absent or comprises <0.1ha (0.2                                     | 2471 acres) contiguous area  |
| Aquatic bed  | 1               | Present and either comprises sr                                     |  |
| 2 Emergent<br>Shrub  |                 | vegetation and is of moderate<br>significant part but is of low qu  |  |
| Forest   | 2               | Present and either comprises significant                            |  |
| Mudflats   |                 | vegetation and is of moderate                                       | quality or comprises a small   |
| Open water   |                 | part and is of high quality   |  |
| Other  | 3               | Present and comprises significa                                     |  |
| 6b. horizontal (plan view) Interspersion. Select only one.           |                 | vegetation and is of high quali                                     | ty   |
| High (5)   | Narrative D     | escription of Vegetation Quality                                    |  |
| Moderately high(4)   | low             | Low spp diversity and/or predon                                     | ninance of nonnative or  |
| Moderate (3)   |                 | disturbance tolerant native spe                                     |  |
| Moderately low (2)   | mod             | Native spp are dominant compo                                       |  |
| Low (1)<br>None (0)  |                 | although nonnative and/or dist<br>can also be present, and spec     |  |
| 6c. Coverage of invasive plants. Refer                               |                 | moderately high, but generally                                      | the state of the s |
| to Table 1 ORAM long form for list. Add                              |                 | threatened or endangered spp  |  |
| or deduct points for coverage  | high            | A predominance of native specie                                     |  |
| Extensive >75% cover (-5)  Moderate 25-75% cover (-3)                |                 | and/or disturbance tolerant na<br>absent, and high spp diversity    |  |
| Sparse 5-25% cover (-1)  |                 | the presence of rare, threaten                                      |  |
| Nearly absent <5% cover (0)  | -               |   | and an amazing area opp  |
| Absent (1)   |                 | d Open Water Class Quality  |  |
| 6d. Microtopography.   | 0               | Absent <0.1ha (0.247 acres)   |  |
| Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks |                 | Low 0.1 to <1ha (0.247 to 2.47 a<br>Moderate 1 to <4ha (2.47 to 9.8 |  |
| Coarse woody debris >15cm (6in)                                      | 3               | High 4ha (9.88 acres) or more                                       | ob acres)  |
| Standing dead >25cm (10in) dbh                                       | -               | ( )   |  |
| Z Amphibian breeding pools   | Microtopog      | graphy Cover Scale  |  |
|  | 0               | Absent  |  |
|  | 1               | Present very small amounts or i                                     | f more common  |
|  | 2               | of marginal quality  Present in moderate amounts, b                 | out not of highest   |
|  | 3               | quality or in small amounts of Present in moderate or greater       | highest quality  |
|  | J               | and of highest quality  | amounts  |

last revised 1 February 2001 jjm

Rater(s): Beth Hollinder, chris Davisson Date: 6/30/2022 Site: AEP Fostoria Wetland 1-L ibtotal first pag Metric 5. Special Wetlands. subtotal Check all that apply and score as indicated. 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 Prairies (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbird/water fowl habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10) Metric 6. Plant communities, interspersion, microtopography. Wetland Vegetation Communities. Vegetation Community Cover Scale Score all present using 0 to 3 scale. Absent or comprises <0.1ha (0.2471 acres) contiguous area Aquatic bed Present and either comprises small part of wetland's Emergent vegetation and is of moderate quality, or comprises a Shrub significant part but is of low quality Forest Present and either comprises significant part of wetland's Mudflats vegetation and is of moderate quality or comprises a small Open water part and is of high quality Other 3 Present and comprises significant part, or more, of wetland's 6b. horizontal (plan view) Interspersion. vegetation and is of high quality Select only one High (5) Narrative Description of Vegetation Quality Moderately high(4) Low spp diversity and/or predominance of nonnative or low Moderate (3) disturbance tolerant native species Moderately low (2) mod Native spp are dominant component of the vegetation, / Low (1) although nonnative and/or disturbance tolerant native spp None (0) can also be present, and species diversity moderate to 6c. Coverage of invasive plants. Refer moderately high, but generally w/o presence of rare to Table 1 ORAM long form for list. Add threatened or endangered spp or deduct points for coverage A predominance of native species, with nonnative spp high Extensive >75% cover (-5) and/or disturbance tolerant native spp absent or virtually Moderate 25-75% cover (-3) absent, and high spp diversity and often, but not always, Sparse 5-25% cover (-1) the presence of rare, threatened, or endangered spp Nearly absent <5% cover (0) Absent (1) Mudflat and Open Water Class Quality 6d. Microtopography. 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) Vegetated hummucks/tussucks Moderate 1 to <4ha (2.47 to 9.88 acres) Coarse woody debris >15cm (6in) 3 High 4ha (9.88 acres) or more O Standing dead >25cm (10in) dbh Amphibian breeding pools Microtopography Cover Scale 0 Absent Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or in small amounts of highest quality Present in moderate or greater amounts and of highest quality

|   | subtotal | 4a. | Substrate disturbance. Score one of   | double check and average.       |                                |
|---|----------|-----|---------------------------------------|---------------------------------|--------------------------------|
|   |          |     | None or none apparent (4)             |                                 |                                |
|   |          |     | Recovered (3)                         |                                 |                                |
|   |          |     | Recovering (2)                        |                                 |                                |
|   |          |     | Recent or no recovery (1)             |                                 |                                |
|   |          | 4h  | Habitat development. Select only on   | e and assign score.             |                                |
|   |          | 40. | Excellent (7)                         | o una dobign obtic.             |                                |
|   |          |     | Very good (6)                         |                                 |                                |
|   |          |     | Good (5)                              |                                 |                                |
|   |          |     |                                       |                                 |                                |
|   |          |     | Moderately good (4)                   |                                 |                                |
|   |          |     | Fair (3)                              |                                 |                                |
|   |          |     | Poor to fair (2)                      |                                 |                                |
|   |          |     | Poor (1)                              |                                 |                                |
|   |          | 4c. | Habitat alteration. Score one or doub | ole check and average.          |                                |
|   |          |     | None or none apparent (9)             | Check all disturbances observed |                                |
|   |          |     | Recovered (6)                         | mowing                          | shrub/sapling removal          |
|   |          |     | Recovering (3)                        | grazing                         | herbaceous/aquatic bed removal |
|   |          |     |                                       |                                 |                                |
| _ |          | 7   | Recent or no recovery (1)             | clearcutting                    | sedimentation                  |
| ı |          |     |                                       | selective cutting               | dredging                       |

woody debris removal

toxic pollutants

farming

nutrient enrichment

subtotal this page

last revised 1 February 2001 jjm

| Site: AEP Fostoria to Lima Rate   | r(s): Beth Ho | ollinden, Chris Dawlsson                                       | Date: 6/30/2022  |
|---|---------------|--|--|
| 27  |               |  | wetland 1-M  |
| subtotal first page   |               |  |  |
| O 26 Metric 5. Special Wetla  | nds.          |  |  |
| max 10 pts. subtotal Check all that apply and score as indicated.                   |               |  |  |
| Bog (10)<br>Fen (10)  |               |  |  |
| Old growth forest (10)  |               |  |  |
| Mature forested wetland (5)   |               |  |  |
| Lake Erie coastal/tributary wetland   |               |  |  |
| Lake Erie coastal/tributary wetland Lake Plain Sand Prairies (Oak Ope               |               | blogy (5)  |  |
| Relict Wet Prairies (10)  |               |  |  |
| Known occurrence state/federal th   |               |  |  |
| Significant migratory songbird/water Category 1 Wetland. See Question               |               |  |  |
| N/ 4: 0 DI 4  |               | 3 1 - /  | tonography   |
| 3 29 Metric 6. Plant commun   | iities, int   | erspersion, micro  | topograpny.  |
| max 20 pts. subtotal 6a. Wetland Vegetation Communities.                            | Vegetation    | Community Cover Scale  |  |
| Score all present using 0 to 3 scale.   | 0             | Absent or comprises <0.1ha (0                                  | 0.2471 acres) contiguous area  |
| Aquatic bed   | 1             | Present and either comprises                                   |  |
| Z Emergent  |               | vegetation and is of moderat                                   |  |
| Shrub<br>Forest   | 2             | Present and either comprises                                   | The second secon |
| Mudflats  | -             |  | e quality or comprises a small   |
| Open water  |               | part and is of high quality                                    |  |
| Other   | 3             |  | cant part, or more, of wetland's   |
| <ol> <li>horizontal (plan view) Interspersion.</li> <li>Select only one.</li> </ol> |               | vegetation and is of high qua                                  | ality  |
| High (5)  | Narrative D   | escription of Vegetation Qualit                                | у  |
| Moderately high(4)  | low           | Low spp diversity and/or predo                                 |  |
| Moderately low (2)  | mod           | disturbance tolerant native s                                  |  |
| Moderately low (2)  Low (1)   | mod           | Native spp are dominant comp                                   | isturbance tolerant native spp   |
| None (0)  |               | can also be present, and spe                                   | ecies diversity moderate to  |
| 6c. Coverage of invasive plants. Refer  |               | moderately high, but general                                   | lly w/o presence of rare   |
| to Table 1 ORAM long form for list. Add<br>or deduct points for coverage            | high          | threatened or endangered sp                                    |  |
| Extensive >75% cover (-5)   | mgn           | A predominance of native spec<br>and/or disturbance tolerant n | native son absent or vidually  |
| Moderate 25-75% cover (-3)  |               | absent, and high spp diversit                                  | ty and often, but not always,  |
| Sparse 5-25% cover (-1)   |               | the presence of rare, threate                                  | ned, or endangered spp   |
| ✓ Nearly absent <5% cover (0) Absent (1)  | Mudflat and   | d Open Water Class Quality                                     |  |
| 6d. Microtopography.  | 0             | Absent <0.1ha (0.247 acres)                                    |  |
| Score all present using 0 to 3 scale.   | 1             | Low 0.1 to <1ha (0.247 to 2.47                                 | acres)   |
| Vegetated hummucks/tussucks   | 2             | Moderate 1 to <4ha (2.47 to 9                                  |  |
| Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh                     | 3             | High 4ha (9.88 acres) or more                                  |  |
| Amphibian breeding pools  | Microtopoo    | graphy Cover Scale   |  |
| 3   | 0             | Absent   |  |
|   | 1             | Present very small amounts or<br>of marginal quality           | r if more common   |
|   | 2             | Present in moderate amounts, quality or in small amounts of    |  |
|   | 3             | Present in moderate or greate                                  | r amounts  |
| 200   |               | and of highest quality   |  |

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| 10. 10          | storia to Lima Rate  | r(s): Both Ho                      | Illinder, Cluris Davisson  | Date: 6/30/200   |
|-----------------|--|------------------------------------|--|--|
|                 |  |                                    | ,  | Wetland 1-   |
| 128             | 3  |                                    |  |  |
| subtotal first  | page   |                                    |  |  |
| 0 28            | Metric 5. Special Wetla  | nds.                               |  |  |
| 10 pts. subtota | that apply and score as indicated.   |                                    |  |  |
|                 | Bog (10)   |                                    |  |  |
|                 | Fen (10) Old growth forest (10)  |                                    |  |  |
|                 | Mature forested wetland (5)  |                                    |  |  |
|                 | Lake Erie coastal/tributary wetland  | unrestricted hy                    | drology (10)   |  |
|                 | Lake Erie coastal/tributary wetland  | restricted hydro                   | ology (5)  |  |
|                 | Lake Plain Sand Prairies (Oak Ope  | nings) (10)                        |  |  |
|                 | Relict Wet Prairies (10)   |                                    |  |  |
|                 | Known occurrence state/federal the Significant migratory songbird/water  | eatened or end                     | angered species (10)   |  |
|                 | Category 1 Wetland. See Question   | 1 1 Qualitative F                  | Rating (-10)   |  |
| 2 01            | Metric 6. Plant commun   |                                    |  | tonography   |
| 3 31            | - Indition of Flant Commun   | ities, iii                         | erspersion, micro  | topograpity.   |
| 20 pts. subtota | ca. vvetiand vegetation communities.   | Vegetation                         | Community Cover Scale  |  |
|                 | Score all present using 0 to 3 scale.  | 0                                  | Absent or comprises <0.1ha (0  |  |
|                 | Aquatic bed  | 1                                  | Present and either comprises s   |  |
|                 | Z Emergent<br>Shrub  |                                    | vegetation and is of moderate<br>significant part but is of low q  |  |
|                 | Forest   | 2                                  | Present and either comprises s   |  |
|                 | Mudflats   | -                                  | vegetation and is of moderate  |  |
|                 | Open water   |                                    | part and is of high quality  |  |
|                 | Other  | 3                                  | Present and comprises signific   |  |
|                 | <ol><li>6b. horizontal (plan view) Interspersion.</li><li>Select only one.</li></ol>   |                                    | vegetation and is of high qua  | lity   |
|                 | High (5)   | Narrative D                        | escription of Vegetation Quality   |  |
|                 | Moderately high(4)   | low                                | Low spp diversity and/or predo   |  |
|                 | Moderate (3)   |                                    | disturbance tolerant native sp   |  |
|                 | Moderately low (2) Low (1)   | mod                                | Native spp are dominant compo  | onent of the vegetation,   |
|                 |  |                                    |  | turbance tolerant native enn   |
|                 | None (0)   |                                    |  |  |
|                 | None (0)  6c. Coverage of invasive plants. Refer   |                                    | can also be present, and spe<br>moderately high, but generall  | cies diversity moderate to   |
|                 | None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add  | 1,1,1                              | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp   | cies diversity moderate to<br>y w/o presence of rare<br>p  |
|                 | None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  | high                               | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp<br>A predominance of native spec  | cies diversity moderate to<br>y w/o presence of rare<br>p<br>ies, with nonnative spp   |
|                 | None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)   | high                               | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp<br>A predominance of native spec<br>and/or disturbance tolerant na  | cies diversity moderate to<br>y w/o presence of rare<br>p<br>ies, with nonnative spp<br>ative spp absent or virtually  |
|                 | None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  | high                               | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp<br>A predominance of native spec  | cies diversity moderate to<br>y w/o presence of rare<br>p<br>ies, with nonnative spp<br>ative spp absent or virtually<br>y and often, but not always,  |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  |                                    | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp<br>A predominance of native spec<br>and/or disturbance tolerant na<br>absent, and high spp diversity<br>the presence of rare, threater  | cies diversity moderate to<br>y w/o presence of rare<br>p<br>ies, with nonnative spp<br>ative spp absent or virtually<br>y and often, but not always,  |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  | Mudflat and                        | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp<br>A predominance of native spec<br>and/or disturbance tolerant na<br>absent, and high spp diversity<br>the presence of rare, threater  | cies diversity moderate to<br>y w/o presence of rare<br>p<br>ies, with nonnative spp<br>ative spp absent or virtually<br>y and often, but not always,  |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  |                                    | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp<br>A predominance of native spec<br>and/or disturbance tolerant na<br>absent, and high spp diversity<br>the presence of rare, threater<br>d Open Water Class Quality<br>Absent <0.1ha (0.247 acres)   | cies diversity moderate to<br>y w/o presence of rare<br>p<br>ies, with nonnative spp<br>ative spp absent or virtually<br>y and often, but not always,<br>ned, or endangered spp  |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  | Mudflat and                        | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp<br>A predominance of native spec<br>and/or disturbance tolerant na<br>absent, and high spp diversity<br>the presence of rare, threater  | y w/o presence of rare p ies, with nonnative spp ative spp absent or virtually y and often, but not always, ned, or endangered spp acres)  |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)                                 | Mudflat and                        | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp<br>A predominance of native spec<br>and/or disturbance tolerant na<br>absent, and high spp diversity<br>the presence of rare, threater<br>d Open Water Class Quality<br>Absent <0.1ha (0.247 acres)<br>Low 0.1 to <1ha (0.247 to 2.47   | cies diversity moderate to y w/o presence of rare p ies, with nonnative spp ative spp absent or virtually y and often, but not always, aed, or endangered spp  |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh | Mudflat and 0 1 2 3                | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp<br>A predominance of native spec<br>and/or disturbance tolerant na<br>absent, and high spp diversity<br>the presence of rare, threater<br>d Open Water Class Quality<br>Absent <0.1ha (0.247 acres)<br>Low 0.1 to <1ha (0.247 to 2.47<br>Moderate 1 to <4ha (2.47 to 9.<br>High 4ha (9.88 acres) or more  | cies diversity moderate to y w/o presence of rare p ies, with nonnative spp ative spp absent or virtually y and often, but not always, aed, or endangered spp  |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)                                 | Mudflat and 0 1 2 3                | can also be present, and spe<br>moderately high, but generall<br>threatened or endangered sp<br>A predominance of native spec<br>and/or disturbance tolerant na<br>absent, and high spp diversity<br>the presence of rare, threater<br>d Open Water Class Quality<br>Absent <0.1ha (0.247 acres)<br>Low 0.1 to <1ha (0.247 to 2.47<br>Moderate 1 to <4ha (2.47 to 9.<br>High 4ha (9.88 acres) or more  | cies diversity moderate to y w/o presence of rare p ies, with nonnative spp ative spp absent or virtually y and often, but not always, and, or endangered spp  |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh | Mudflat and 0 1 2 3                | can also be present, and spe moderately high, but generall threatened or endangered sp A predominance of native spec and/or disturbance tolerant na absent, and high spp diversity the presence of rare, threater Open Water Class Quality  Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 Moderate 1 to <4ha (2.47 to 9.41) High 4ha (9.88 acres) or more raphy Cover Scale  Absent   | cies diversity moderate to y w/o presence of rare p ies, with nonnative spp ative spp absent or virtually y and often, but not always, ned, or endangered spp  |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh | Mudflat and 0 1 2 3 Microtopog     | can also be present, and spe moderately high, but generall threatened or endangered sp.  A predominance of native spec and/or disturbance tolerant na absent, and high spp diversity the presence of rare, threater  Dopen Water Class Quality  Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 Moderate 1 to <4ha (2.47 to 9.47 to | cies diversity moderate to y w/o presence of rare p ies, with nonnative spp ative spp absent or virtually y and often, but not always, led, or endangered spp acres)   |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh | Mudflat and 0 1 2 3 Microtopog     | can also be present, and spe moderately high, but generall threatened or endangered sp.  A predominance of native spec and/or disturbance tolerant na absent, and high spp diversity the presence of rare, threater  Dopen Water Class Quality  Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 Moderate 1 to <4ha (2.47 to 9.41) High 4ha (9.88 acres) or more  raphy Cover Scale  Absent  Present very small amounts or of marginal quality  Present in moderate amounts, i   | cies diversity moderate to y w/o presence of rare p ies, with nonnative spp ative spp absent or virtually y and often, but not always, led, or endangered spp acres)  88 acres)  |
|                 | None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh | Mudflat and 0 1 2 3 Microtopog 0 1 | can also be present, and spe moderately high, but generall threatened or endangered sp.  A predominance of native spec and/or disturbance tolerant na absent, and high spp diversity the presence of rare, threater  Dopen Water Class Quality  Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 Moderate 1 to <4ha (2.47 to 9.47 to | cies diversity moderate to y w/o presence of rare please, with nonnative sppative spp absent or virtually y and often, but not always, led, or endangered sppative sp |

| Site: AEP FOS                               | toria to Lima   | Rater(s): Bell Hollinder,   | Cluis Davisson   | Date: 6/30/2022   |
|---|---|---|--|---|
|   | Metric 1. Wetland A   |   |  | Wetland 1-0   |
| max 6 pts subtotal                          | Select one size class and assign sco  >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <2 10 to <25 acres (4 to <10.1 3 to <10 acres (1.2 to <4ha 0.3 to <3 acres (0.12 to <1. 0.1 to <0.3 acres (0.04 to <   | 0.2ha) (5 pts)<br>ha) (4 pts)<br>) (3 pts)<br>2ha) (2pts)   |  |   |
| 12 12                                       | Metric 2. Upland bu   | ffers and surround  | ing land use.  |   |
|   | MEDIUM. Buffers average NARROW. Buffers average VERY NARROW. Buffers  2b. Intensity of surrounding land use VERY LOW. 2nd growth o LOW. Old field (>10 years MODERATELY HIGH. Re  | m (164ft) or more around wetland pe<br>25m to <50m (82 to <164ft) around<br>e 10m to <25m (32ft to <82ft) aroun<br>average <10m (<32ft) around wetlan | erimeter (7) wetland perimeter (4) d wetland perimeter (1) id perimeter (0) verage. llife area, etc. (7) forest. (5) eryation tillage, new fallo | w field. (3)  |
| 7 19  | Metric 3. Hydrology   |   |  |   |
|   | 3a. Sources of Water. Score all that High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surfa Perennial surface water (la 3c. Maximum water depth. Select or >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in)  3e. Modifications to natural hydrological     | ce water (3) ke or stream) (5) 3d. lly one and assign score.  (2) c regime. Score one or double chec  | Part of wetland/up Part of riparian or Duration inundation/satt Semi- to permane Regularly inundat Seasonally inundi Seasonally satura           | in (1) ake and other human use (1) aland (e.g. forest), complex (1 upland corridor (1) irration. Score one or dbl che- intly inundated/saturated (4) ed/saturated (3) |
|   | None or none apparent (12 Recovered (7) Recovering (3) Recent or no recovery (1)  | ditch tile dike weir stormwater input   | point source (non-<br>filling/grading<br>road bed/RR track<br>dredging<br>other_   |   |
| 9 28  | Metric 4. Habitat Al  | teration and Develo   | pment.   |   |
| 2   | Aa. Substrate disturbance. Score on None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Ab. Habitat development. Select only Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) Cc. Habitat alteration. Score one or of | one and assign score.   |  |   |
| 28  | None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  | Check all disturbances observed mowing grazing clearcutting selective cutting woody debris removal toxic pollutants                                   | shrub/sapling rem herbaceous/aqua sedimentation dredging farming nutrient enrichme   | tic bed removal   |
| subtotal this page<br>st revised 1 February | 2001 iim  |   |  |   |

| Site: ASP For       | storia to Lima  | Rater(s): Beth H   | Iollinden, Chris Davisson  | Date: 6/30/2022                 |
|---------------------|---|--|--|---------------------------------|
|                     | 7   |  |  | wetland 1-C                     |
| 28                  | 3   |  |  |                                 |
| subtotal first      |   | Motlanda   |  |                                 |
| 0 28                | Metric 5. Special   | wellands.  |  |                                 |
| max 10 pts subtotal | Check all that apply and score as                                   | indicated.   |  |                                 |
|                     | Bog (10)<br>Fen (10)  |  |  |                                 |
|                     | Old growth forest (10)  |  |  |                                 |
|                     | Mature forested wetland   | d (5)<br>ary wetland-unrestricted hy   | vdrology (10)  |                                 |
|                     |   | ary wetland-unrestricted hydr  |  |                                 |
|                     | Lake Plain Sand Prairie   |  | 10.77  |                                 |
|                     | Relict Wet Prairies (10)  | e/federal threatened or en   | dangered enecies (10)  |                                 |
|                     |   | ingbird/water fowl habitat of  |  |                                 |
|                     |   | ee Question 1 Qualitative  |  |                                 |
| 3 31                | Metric 6. Plant co  | mmunities, in  | terspersion, micro   | topography.                     |
| 0                   |   |  |  |                                 |
| max 20 pts. subtota | 6a. Wetland Vegetation Commun<br>Score all present using 0 to 3 sca |  | Absent or comprises < 0.1ha (0                                   | 2471 acres) contiguous area     |
|                     | Aquatic bed   | 1  | Present and either comprises s                                   | small part of wetland's         |
|                     | 2 Emergent  |  | vegetation and is of moderate                                    |                                 |
|                     | Shrub   |  | significant part but is of low q                                 |                                 |
|                     | Forest<br>Mudflats  | 2  | Present and either comprises s                                   | e quality or comprises a small  |
|                     | Open water  |  | part and is of high quality                                      | e quality of comprises a small  |
|                     | Other   | 3  | Present and comprises signific                                   | ant part, or more, of wetland's |
|                     | 6b. horizontal (plan view) Intersp                                  |  | vegetation and is of high qua                                    |                                 |
|                     | Select only one.  |  |  |                                 |
|                     | High (5)  |  | Description of Vegetation Quality                                |                                 |
|                     | Moderately high(4) Moderate (3)                                     | low  | Low spp diversity and/or predo<br>disturbance tolerant native sp |                                 |
|                     | ✓ Moderately low (2)  | mod  | Native spp are dominant comp                                     |                                 |
|                     | Low (1)   |  | although nonnative and/or di                                     | sturbance tolerant native spp   |
|                     | None (0)  |  | can also be present, and spe                                     |                                 |
|                     | 6c. Coverage of invasive plants.                                    |  | moderately high, but general                                     |                                 |
|                     | to Table 1 ORAM long form for lis<br>or deduct points for coverage  | st. Add high   | A predominance of native spec                                    |                                 |
|                     | Extensive >75% cover  |  | and/or disturbance tolerant n                                    |                                 |
|                     | Moderate 25-75% cover   | *  | absent, and high spp diversit                                    |                                 |
|                     | ✓ Sparse 5-25% cover (-   |  | the presence of rare, threate                                    |                                 |
|                     | Nearly absent <5% cov   |  |  |                                 |
|                     | Absent (1)  |  | nd Open Water Class Quality                                      |                                 |
|                     | 6d. Microtopography.  | 0  | Absent <0.1ha (0.247 acres)                                      |                                 |
|                     | Score all present using 0 to 3 sca  O Vegetated hummucks/i          |  | Low 0.1 to <1ha (0.247 to 2.47<br>Moderate 1 to <4ha (2.47 to 9  |                                 |
|                     | O Coarse woody debris >   | Lack to the second seco | High 4ha (9.88 acres) or more                                    |                                 |
|                     | O Standing dead >25cm   |  | 1g (5.30 doi:00) of filore                                       |                                 |
|                     | Amphibian breeding po   | A CONTRACTOR OF THE PARTY OF TH | ography Cover Scale  |                                 |
|                     |   | 0  | Absent   |                                 |
|                     |   | 1  | Present very small amounts or<br>of marginal quality             |                                 |
|                     |   | 2  | Present in moderate amounts,<br>quality or in small amounts of   |                                 |
|                     |   | 3  | Present in moderate or greate                                    | r amounts                       |
|                     |   |  | and of highest quality   |                                 |

ORAM v. 5.0 Field Form Quantitative Rating Site: ASP Fostoria to Lima Date: 6/30/2022 Rater(s): Bell Hollinden, Cluis Davisson wetland I-P Metric 1. Wetland Area (size). max 6 pts subtotal Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. max 14 pts subtotal Calculate average buffer width. Select only one and assign score. Do not double check. 2a. WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. max 30 pts subtotal 3b. Connectivity. Score all that apply. 3a. Sources of Water. Score all that apply. 100 year floodplain (1) High pH groundwater (5) Between stream/lake and other human use (1) Other groundwater (3) Part of wetland/upland (e.g. forest), complex (1) Precipitation (1) Part of riparian or upland corridor (1) Seasonal/Intermittent surface water (3) 3d. Duration inundation/saturation. Score one or dbl check. Perennial surface water (lake or stream) (5) Semi- to permanently inundated/saturated (4) Maximum water depth. Select only one and assign score. >0.7 (27.6in) (3) Regularly inundated/saturated (3) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) Seasonally saturated in upper 30cm (12in) (1) <0.4m (<15.7in) (1) 3e. Modifications to natural hydrologic regime. Score one or double check and average. None or none apparent (12) Check all disturbances observed Recovered (7) ditch point source (nonstormwater) tile filling/grading road bed/RR track Recent or no recovery (1) dike weir dredging stormwater input other Metric 4. Habitat Alteration and Development. Substrate disturbance. Score one or double check and average. None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select only one and assign score. Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average Check all disturbances observed None or none apparent (9) Recovered (6) ✓ mowing shrub/sapling removal Recovering (3) grazing herbaceous/aquatic bed removal Recent or no recovery (1) clearcutting sedimentation

selective cutting

toxic pollutants

woody debris removal

dredaina

farming

nutrient enrichment

subtotal this page

| Site: ASP Fosto         | ria to Lima Rater   | (s): Beth H     | ollinder, Chris Davisson   | Date: 6/30/202                 |
|-------------------------|---|-----------------|--|--------------------------------|
| 0.0                     |   |                 |  | WEHOOD 1-P                     |
| 26                      |   |                 |  |                                |
| subtotal first page     | letric 5. Special Wetlan  | ıds.            |  |                                |
|                         | eck all that apply and score as indicated.                              |                 |  |                                |
|                         | Bog (10)  |                 |  |                                |
|                         | Fen (10)  |                 |  |                                |
|                         | Old growth forest (10) Mature forested wetland (5)                      |                 |  |                                |
|                         | Lake Erie coastal/tributary wetland-u                                   | inrestricted by | drology (10)   |                                |
|                         | Lake Erie coastal/tributary wetland-r                                   |                 |  |                                |
|                         | Lake Plain Sand Prairies (Oak Oper                                      |                 |  |                                |
|                         | Relict Wet Prairies (10)  |                 |  |                                |
|                         | Known occurrence state/federal three                                    |                 |  |                                |
|                         | Significant migratory songbird/water Category 1 Wetland. See Question   | 1 Qualitative F | Pating (-10)   |                                |
| N                       |   |                 |  | onography                      |
| 4 30                    | letric 6. Plant commun  | ines, ini       | erspersion, iniciou  | opograpity.                    |
| max 20 pts. subtotal 6a | Wetland Vegetation Communities.   | Vegetation      | Community Cover Scale  |                                |
|                         | ore all present using 0 to 3 scale.                                     | 0               | Absent or comprises <0.1ha (0.2                                    | 2471 acres) contiguous area    |
|                         | Aquatic bed   | 1               | Present and either comprises sn                                    | nall part of wetland's         |
|                         | 2 Emergent  |                 | vegetation and is of moderate                                      | quality, or comprises a        |
|                         | Shrub   |                 | significant part but is of low qu                                  |                                |
|                         | Forest<br>Mudflats  | 2               | Present and either comprises sig<br>vegetation and is of moderate  | initicant part of wetland's    |
|                         | Open water  |                 | part and is of high quality  | quality of comprises a small   |
|                         | Other   | 3               | Present and comprises significant                                  | nt part, or more, of wetland's |
| 6b.                     | horizontal (plan view) Interspersion.                                   |                 | vegetation and is of high qualit                                   | у                              |
| Se                      | lect only one.  |                 |  |                                |
|                         | High (5)  |                 | escription of Vegetation Quality                                   | inance of popportive or        |
|                         | Moderately high(4)  Moderate (3)  | low             | Low spp diversity and/or predom<br>disturbance tolerant native spe |                                |
|                         | Moderately low (2)  | mod             | Native spp are dominant compor                                     |                                |
|                         | Low (1)   |                 | although nonnative and/or distr                                    | urbance tolerant native spp    |
|                         | None (0)  |                 | can also be present, and speci                                     |                                |
|                         | Coverage of invasive plants. Refer Table 1 ORAM long form for list. Add |                 | moderately high, but generally<br>threatened or endangered spp     | w/o presence of rare           |
|                         | deduct points for coverage  | high            | A predominance of native specie                                    | s, with nonnative spp          |
|                         | Extensive >75% cover (-5)   |                 | and/or disturbance tolerant nat                                    |                                |
|                         | Moderate 25-75% cover (-3)  |                 | absent, and high spp diversity                                     |                                |
|                         | Sparse 5-25% cover (-1)   | -               | the presence of rare, threatene                                    | d, or endangered spp           |
|                         | Nearly absent <5% cover (0) Absent (1)                                  | Mudflat and     | Open Water Class Quality   |                                |
| 6d.                     | Microtopography.  | 0               | Absent <0.1ha (0.247 acres)  |                                |
|                         | ore all present using 0 to 3 scale.                                     | 1               | Low 0.1 to <1ha (0.247 to 2.47 a                                   | cres)                          |
|                         | O Vegetated hummucks/tussucks   | 2               | Moderate 1 to <4ha (2.47 to 9.88                                   | 3 acres)                       |
|                         | Coarse woody debris >15cm (6in)   | 3               | High 4ha (9.88 acres) or more                                      |                                |
|                         | Standing dead >25cm (10in) dbh Amphibian breeding pools                 | Microtopog      | raphy Cover Scale  |                                |
|                         | Antipinolan breeding pools  | 0               | Absent   |                                |
|                         |   | 1               | Present very small amounts or if of marginal quality               | more common                    |
|                         |   | 2               | Present in moderate amounts, but quality or in small amounts of h  |                                |
|                         |   | 3               | Present in moderate or greater a                                   |                                |
|                         |   |                 | and of highest quality   | Section 1                      |

grazing

clearcutting

selective cutting

toxic pollutants

woody debris removal

sedimentation

nutrient enrichment

dredging

farming

last revised 1 February 2001 jjm

Recovering (3)

Recent or no recovery (1)

|                     | om Quantitative rating  |                        |   |
|---------------------|---|------------------------|---|
| Site: ASP FO        | storia to Lima F  | Rater(s): Betty        | Hollinder, Clinis Davisson Date: 6/30/2022  |
|                     | 7   |                        | wetland 1-a   |
| 119                 |   |                        |   |
|                     |   |                        |   |
| subtotal first      |   |                        |   |
| 0 19                | Metric 5. Special We  | etlands.               |   |
| max 10 pts subtotal | Check all that apply and score as indic   | ated.                  |   |
|                     | Bog (10)  |                        |   |
|                     | Fen (10)  |                        |   |
|                     | Old growth forest (10) Mature forested wetland (5)  |                        |   |
|                     | Lake Erie coastal/tributary w   | etland-unrestricted by | drology (10)  |
|                     | Lake Erie coastal/tributary w   |                        |   |
|                     | Lake Plain Sand Prairies (Oa  |                        |   |
|                     | Relict Wet Prairies (10)  |                        |   |
|                     | Known occurrence state/fed  |                        |   |
|                     | Significant migratory songbir   |                        |   |
|                     | Category 1 Wetland. See Q   |                        |   |
| -2 17               | Wetric 6. Plant com   | nunities, int          | erspersion, microtopography.  |
|                     |   |                        |   |
| max 20 pts subtotal | ou. Trettaria regetation communities.   |                        | Community Cover Scale   |
|                     | Score all present using 0 to 3 scale.  Aquatic bed  | 0                      | Absent or comprises <0.1ha (0.2471 acres) contiguous area  Present and either comprises small part of wetland's |
|                     | Emergent  |                        | vegetation and is of moderate quality, or comprises a   |
|                     | Shrub   |                        | significant part but is of low quality  |
|                     | Forest  | 2                      | Present and either comprises significant part of wetland's  |
|                     | Mudflats  |                        | vegetation and is of moderate quality or comprises a small  |
|                     | Open water  |                        | part and is of high quality   |
|                     | Other 6b. horizontal (plan view) Interspersio   | 3                      | Present and comprises significant part, or more, of wetland's vegetation and is of high quality                 |
|                     | Select only one.  |                        | vegetation and is or night quanty   |
|                     | High (5)  | Narrative D            | escription of Vegetation Quality  |
|                     | Moderately high(4) Moderate (3)   | low                    | Low spp diversity and/or predominance of nonnative or disturbance tolerant native species                       |
|                     | Moderately low (2)  | mod                    | Native spp are dominant component of the vegetation,  |
|                     | Low (1)   |                        | although nonnative and/or disturbance tolerant native spp   |
|                     | None (0)  |                        | can also be present, and species diversity moderate to  |
|                     | <ol> <li>Coverage of invasive plants. Refeto Table 1 ORAM long form for list. Ac</li> </ol> |                        | moderately high, but generally w/o presence of rare threatened or endangered spp                                |
|                     | or deduct points for coverage   | high                   | A predominance of native species, with nonnative spp  |
|                     | Extensive >75% cover (-5)   | 9                      | and/or disturbance tolerant native spp absent or virtually  |
|                     | Moderate 25-75% cover (-3)  |                        | absent, and high spp diversity and often, but not always,   |
|                     | Sparse 5-25% cover (-1)   |                        | the presence of rare, threatened, or endangered spp   |
|                     | Nearly absent <5% cover (0)   |                        | d Open Water Class Quality  |
|                     | Absent (1) 6d. Microtopography.   | 0                      | Absent <0.1ha (0.247 acres)   |
|                     | Score all present using 0 to 3 scale.   | 1                      | Low 0.1 to <1ha (0.247 to 2.47 acres)   |
|                     | Vegetated hummucks/tussue   | cks 2                  | Moderate 1 to <4ha (2.47 to 9.88 acres)   |
|                     | O Coarse woody debris >15cm   |                        | High 4ha (9.88 acres) or more   |
|                     | Standing dead >25cm (10in)  |                        | ranhy Cover Seale   |
|                     | Amphibian breeding pools  | Microtopog             | raphy Cover Scale Absent  |
|                     |   | 1                      | Present very small amounts or if more common  |
|                     |   |                        | of marginal quality   |
|                     |   | 2                      | Present in moderate amounts, but not of highest quality or in small amounts of highest quality                  |
|                     |   | 3                      | Present in moderate or greater amounts  |
|                     |   | 3                      | and of highest quality  |

| Site: AEP Fostoria to Lima   | Rater(s): Beta                   | Hollinden, Cu                           | nis Davisson Date: 6/30/2022   |
|--|----------------------------------|---|--|
|  |                                  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Wetland 1-R  |
| 2 2 Metric 1. Wetland A  | rea (size).                      |   |  |
| max 6 pts. subtotal Select one size class and assign scor  | 9                                |   |  |
| >50 acres (>20.2ha) (6 pts)  |                                  |   |  |
| 25 to <50 acres (10.1 to <2  |                                  |   |  |
| 10 to <25 acres (4 to <10.1<br>3 to <10 acres (1.2 to <4ha   | na) (4 pts)<br>) (3 pts)         |   |  |
| 0.3 to <3 acres (0.12 to <1.   | 2ha) (2pts)                      |   |  |
| 0.1 to <0.3 acres (0.04 to < <0.1 acres (0.04ha) (0 pts)   | 0.12ha) (1 pt)                   |   |  |
| 1 3 Metric 2. Upland bu  | ffers and su                     | rrounding l                             | and use.   |
| max 14 pts. subtotal 2a. Calculate average buffer width.   | Select only one and ass          | ian score. Do not d                     | puble check  |
| WIDE. Buffers average 50   | m (164ft) or more aroun          | d wetland perimeter                     | (7)  |
| MEDIUM. Buffers average NARROW. Buffers average  |                                  |   |  |
| VERY NARROW. Buffers   |                                  |   |  |
| 2b. Intensity of surrounding land use  |                                  |   | a ata (7)  |
| VERY LOW. 2nd growth o   |                                  |   |  |
| MODERATELY HIGH. Res   | sidential, fenced pasture        | e, park, conservation                   | tillage, new fallow field. (3)   |
| HIGH. Urban, industrial, op  |                                  | ng, mining, construc                    | ion. (1)   |
| 10 13 Metric 3. Hydrology  | •                                |   |  |
| max 30 pts. subtotal 3a, Sources of Water. Score all that  | apply.                           |   | ctivity. Score all that apply.   |
| High pH groundwater (5) Other groundwater (3)  |                                  |   | 00 year floodplain (1)<br>Between stream/lake and other human use (1)                    |
| Precipitation (1)  |                                  |   | Part of wetland/upland (e.g. forest), complex (1   |
| Seasonal/Intermittent surfa Perennial surface water (la  |                                  |   | Part of riparian or upland corridor (1)<br>n inundation/saturation. Score one or dbl che |
| 3c. Maximum water depth. Select or   |                                  |   | Semi- to permanently inundated/saturated (4)   |
| >0.7 (27.6in) (3)  |                                  |   | Regularly inundated/saturated (3)  |
| 0.4 to 0.7m (15.7 to 27.6in)<br><pre> </pre> <pre> /pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre> | (2)                              |   | Seasonally inundated (2) Seasonally saturated in upper 30cm (12in) (1)                   |
| 3e. Modifications to natural hydrolog  | ic regime. Score one or          |   |  |
| None or none apparent (12  |                                  |   |  |
| Recovered (7) Recovering (3)   | ditch                            |   | oint source (nonstormwater)  |
| Recent or no recovery (1)  | dike                             |   | oad bed/RR track   |
|  | weir<br>stormwater inp           |   | lredging<br>other  |
|  |                                  |   |  |
| 6 19 Metric 4. Habitat Al  | teration and                     | Developme                               | ent.   |
| max 20 pts. subtotal 4a, Substrate disturbance. Score on None or none apparent (4)   |                                  | average.                                |  |
| Recovered (3)  |                                  |   |  |
| Recovering (2)   |                                  |   |  |
| Recent or no recovery (1)  4b. Habitat development. Select onl   | y one and assign score           |   |  |
| Excellent (7)  | ,                                |   |  |
| Very good (6)<br>Good (5)  |                                  |   |  |
| Moderately good (4)  |                                  |   |  |
| Fair (3) Poor to fair (2)  |                                  |   |  |
| Poor (1)   |                                  |   |  |
| 4c. Habitat alteration. Score one or   | double check and avera           | ige.                                    |  |
| None or none apparent (9)  | Check all disturbanc             |   | houb/cooling removal   |
| Recovered (6) Recovering (3)   | mowing grazing                   |   | shrub/sapling removal<br>nerbaceous/aquatic bed removal                                  |
| Recent or no recovery (1)  | clearcutting                     | V :                                     | edimentation   |
| 19   | selective cutting woody debris r |   | dredging<br>arming   |
| +  | toxic pollutants                 |   | nutrient enrichment  |
| subtotal this page   |                                  |   |  |
| last revised 1 February 2001 jjm   |                                  |   |  |

| Site: AEP FOS        | storia to Lima   | Rater(s): Beth He   | ollinden, Chris Davisson   | Date: 6/30/2022  |
|----------------------|--|---|--|--|
|                      | 1  |   |  | Wetland 1-R  |
| 19                   |  |   |  |  |
| subtotal first p     | 1  |   |  |  |
| 0 19                 | Metric 5. Special V  | Vetlands.   |  |  |
| max 10 pts. subtotal | Check all that apply and score as in                         | dicated.  |  |  |
|                      | Bog (10)<br>Fen (10)   |   |  |  |
|                      | Old growth forest (10)                                       |   |  |  |
|                      | Mature forested wetland                                      | (5)<br>y wetland-unrestricted hyd                         | rology (10)  |  |
|                      |  | y wetland-unrestricted hydrol                             |  |  |
|                      | Lake Plain Sand Prairies                                     |   | -3) (-/  |  |
|                      | Relict Wet Prairies (10)                                     |   |  |  |
|                      | Significant migratory sone                                   | federal threatened or enda<br>gbird/water fowl habitat or | ngered species (10)  |  |
|                      |  | Question 1 Qualitative R                                  |  |  |
| -2 17                | Metric 6. Plant cor  | nmunities, into   | erspersion, micro  | topography.  |
| max 20 pts. subtotal | 6a. Wetland Vegetation Communit                              | ies. Vegetation   | Community Cover Scale  |  |
|                      | Score all present using 0 to 3 scale                         |   | Absent or comprises <0.1ha (0  |  |
|                      | Aquatic bed  \ Emergent                                      | 1   | Present and either comprises s<br>vegetation and is of moderate  | A STATE OF THE PARTY OF THE PAR |
|                      | Shrub  |   | significant part but is of low of  |  |
|                      | Forest   | 2   | Present and either comprises s   |  |
|                      | Mudflats   |   |  | e quality or comprises a small   |
|                      | Open water<br>Other  | 3   | part and is of high quality  Present and comprises signific  | ant part or more of wetland's  |
|                      | 6b. horizontal (plan view) Intersper                         |   | vegetation and is of high qua  |  |
|                      | Select only one.   |   |  |  |
|                      | High (5)   |   | escription of Vegetation Quality   |  |
|                      | Moderately high(4) Moderate (3)                              | low   | Low spp diversity and/or predo<br>disturbance tolerant native sp   |  |
|                      | Moderately low (2)   | mod   | Native spp are dominant comp   |  |
|                      | Low (1)  |   | The second of th | sturbance tolerant native spp  |
|                      | None (0)  6c. Coverage of invasive plants. R                 | tofor   | can also be present, and spe<br>moderately high, but general   |  |
|                      | to Table 1 ORAM long form for list.                          |   | threatened or endangered sp  |  |
|                      | or deduct points for coverage                                | high  | A predominance of native spec  | cies, with nonnative spp   |
|                      | Extensive >75% cover (-                                      |   | and/or disturbance tolerant n  |  |
|                      | Moderate 25-75% cover<br>Sparse 5-25% cover (-1)             |   | absent, and high spp diversit<br>the presence of rare, threate   |  |
|                      | Nearly absent <5% cover                                      |   | the presence of fare, threate  | nea, or endangered opp   |
|                      | Absent (1)   |   | Open Water Class Quality   |  |
|                      | 6d. Microtopography.   | 0   | Absent <0.1ha (0.247 acres)  | 'aaraa)  |
|                      | Score all present using 0 to 3 scale  Vegetated hummucks/tus |   | Low 0.1 to <1ha (0.247 to 2.47<br>Moderate 1 to <4ha (2.47 to 9  |  |
|                      | O Coarse woody debris >15                                    |   | High 4ha (9.88 acres) or more  |  |
|                      | O Standing dead >25cm (10                                    |   |  |  |
|                      | Amphibian breeding pool                                      |   | raphy Cover Scale  |  |
|                      |  | 0   | Absent Present very small amounts or   | if more common   |
|                      |  |   | of marginal quality  | ii more common   |
|                      |  | 2   | Present in moderate amounts,   |  |
|                      |  |   | quality or in small amounts o  |  |
|                      |  | 3   | Present in moderate or greater and of highest quality  | amounts  |
|                      |  |   | I and of flighest quality  |  |

| Site: ASP Fostoria to Lima                                    | Rater(s): Beth Hollinder, Chris Davisson Date: 6/30/2022  |
|---|---|
|   | Wetland 1-5   |
| Metric 1. Wetland A   | rea (size).   |
| max 6 pts. subtotal Select one size class and assign scor     | re  |
| >50 acres (>20.2ha) (6 pts                                    |   |
| 25 to <50 acres (10.1 to <2<br>10 to <25 acres (4 to <10.1    |   |
| 3 to <10 acres (1.2 to <4ha 0.3 to <3 acres (0.12 to <1.      |   |
| 0.1 to <0.3 acres (0.04 to <                                  | 0.12ha) (1 pt)  |
| Vo.1 acres (0.04ha) (0 pts) Metric 2 Unland but               | iffers and surrounding land use.  |
| 1 1 Metric 2. Opland bu                                       | mors and surrounding land asc.  |
|   | Select only one and assign score. Do not double check. Im (164ft) or more around wetland perimeter (7)                            |
| MEDIUM. Buffers average                                       | 25m to <50m (82 to <164ft) around wetland perimeter (4)   |
|   | je 10m to <25m (32ft to <82ft) around wetland perimeter (1)<br>average <10m (<32ft) around wetland perimeter (0)                  |
|   | e. Select one or double check and average. or older forest, prairie, savannah, wildlife area, etc. (7)                            |
| LOW. Old field (>10 years                                     | s), shrub land, young second growth forest. (5)   |
|   | sidential, fenced pasture, park, conservation tillage, new fallow field. (3) pen pasture, row cropping, mining, construction. (1) |
| 7 8 Metric 3. Hydrology                                       | <i>(</i> .  |
| max 30 pts subtotal 3a. Sources of Water. Score all that      |   |
| High pH groundwater (5) Other groundwater (3)                 | 100 year floodplain (1)  Between stream/lake and other human use (1)  |
| Precipitation (1) Seasonal/Intermittent surfa                 | Part of wetland/upland (e.g. forest), complex (1)   |
| Perennial surface water (la                                   | ake or stream) (5) 3d. Duration inundation/saturation. Score one or dbl check.  |
| 3c. Maximum water depth. Select o                             | only one and assign score.  Semi- to permanently inundated/saturated (4)  Regularly inundated/saturated (3)                       |
| 0.4 to 0.7m (15.7 to 27.6in<br><0.4m (<15.7in) (1)            | Seasonally inundated (2) Seasonally saturated in upper 30cm (12in) (1)  |
|   | gic regime. Score one or double check and average.  |
| None or none apparent (1) Recovered (7)                       | 2) Check all disturbances observed ditch point source (nonstormwater)   |
| Recovering (3) Recent or no recovery (1)                      | tile filling/grading dike road bed/RR track   |
|   | weir dredging   |
|   | stormwater inputother   |
| 6 14 Metric 4. Habitat A                                      | Iteration and Development.  |
| max 20 pts. subtotal 4a. Substrate disturbance. Score o       |   |
| Recovered (3)   |   |
| Recovering (2) Recent or no recovery (1)                      |   |
| 4b. Habitat development. Select or<br>Excellent (7)           | ly one and assign score.  |
| Very good (6)   |   |
| Good (5) Moderately good (4)                                  |   |
| Fair (3)<br>Poor to fair (2)                                  |   |
| Poor (1)  | dauble shoot and success  |
| 4c. Habitat alteration. Score one or None or none apparent (9 |   |
| Recovered (6)   | mowing shrub/sapling removal  |
| Recovering (3) Recent or no recovery (1)                      |   |
| 14  | selective cutting dredging woody debris removal farming   |
|   | toxic pollutants nutrient enrichment  |
| subtotal this page<br>last revised 1 February 2001 jjm        |   |

| Site: AEP F         | ostoria to Lima Ra   | iter(s): Beth H     | ollinden, Curis Davisson  | Date: 6/30/202   |
|---------------------|--|---------------------|---|--|
| 14                  |  |                     | V   | welland 1-S  |
| subtotal first      | Metric 5. Special Wet  | lands.              |   |  |
| max 10 pts. subtota |  |                     |   |  |
| men re pre-         | Check all that apply and score as indicated Bog (10)                     | ea.                 |   |  |
|                     | Fen (10)   |                     |   |  |
|                     | Old growth forest (10)   |                     |   |  |
|                     | Mature forested wetland (5)  |                     |   |  |
|                     | Lake Erie coastal/tributary wetla  |                     |   |  |
|                     | Lake Erie coastal/tributary wetl   |                     | ology (5)   |  |
|                     | Lake Plain Sand Prairies (Oak  | Openings) (10)      |   |  |
|                     | Relict Wet Prairies (10) Known occurrence state/federa                   | I threatened or and | angered angeles (10)  |  |
|                     | Significant migratory songbird/v   |                     |   |  |
|                     | Category 1 Wetland. See Que  |                     |   |  |
|                     | Metric 6. Plant comm   | unities in          | erenergion microf   | onography  |
| -2 12               | - Wethor of Flant comm   | unities, in         | erspersion, intero  | opograpity.  |
| max 20 pts. subtota | 6a. Wetland Vegetation Communities.                                      | Vegetation          | Community Cover Scale   |  |
|                     | Score all present using 0 to 3 scale.                                    | 0                   | Absent or comprises <0.1ha (0.                                    | 2471 acres) contiguous area  |
|                     | Aquatic bed  | 1                   | Present and either comprises si                                   | mall part of wetland's   |
|                     | \ Emergent   |                     | vegetation and is of moderate                                     | quality, or comprises a  |
|                     | Shrub  |                     | significant part but is of low qu                                 |  |
|                     | Forest   | 2                   | Present and either comprises si                                   |  |
|                     | Mudflats Open water  |                     | vegetation and is of moderate<br>part and is of high quality      | quality or comprises a small   |
|                     | Other  | 3                   | Present and comprises significa                                   | int part, or more, of wetland's  |
|                     | 6b. horizontal (plan view) Interspersion.                                |                     | vegetation and is of high quali                                   |  |
|                     | Select only one.   |                     |   |  |
|                     | High (5)   |                     | escription of Vegetation Quality                                  |  |
|                     | Moderately high(4) Moderate (3)  | low                 | Low spp diversity and/or predor<br>disturbance tolerant native sp |  |
|                     | Moderately low (2)   | mod                 | Native spp are dominant compo                                     | nent of the vegetation,  |
|                     | Low (1)  |                     | although nonnative and/or dis                                     |  |
|                     | None (0)   |                     | can also be present, and spec                                     | The state of the s |
|                     | 6c. Coverage of invasive plants. Refer                                   |                     | moderately high, but generally<br>threatened or endangered spr    | The state of the s |
|                     | to Table 1 ORAM long form for list. Add<br>or deduct points for coverage | high                | A predominance of native speci                                    |  |
|                     | Extensive >75% cover (-5)  | mg.                 | and/or disturbance tolerant na                                    |  |
| *                   | Moderate 25-75% cover (-3)   |                     | absent, and high spp diversity                                    |  |
|                     | Sparse 5-25% cover (-1)  |                     | the presence of rare, threaten                                    | ed, or endangered spp  |
|                     | Nearly absent <5% cover (0)  |                     |   |  |
|                     | Absent (1)   |                     | Open Water Class Quality  |  |
|                     | 6d. Microtopography.  Score all present using 0 to 3 scale.              | 1                   | Absent <0.1ha (0.247 acres)<br>Low 0.1 to <1ha (0.247 to 2.47 to  | acres)   |
|                     | Vegetated hummucks/tussucks  |                     | Moderate 1 to <4ha (2.47 to 9.8                                   |  |
|                     | Coarse woody debris >15cm (6   |                     | High 4ha (9.88 acres) or more                                     |  |
|                     | O Standing dead >25cm (10in) db  |                     |   |  |
|                     | <ul> <li>Amphibian breeding pools</li> </ul>                             |                     | raphy Cover Scale   |  |
|                     |  | 0                   | Absent  |  |
|                     |  | 1                   | Present very small amounts or i<br>of marginal quality            |  |
|                     |  | 2                   | Present in moderate amounts, be<br>quality or in small amounts of |  |
|                     |  | 3                   | Present in moderate or greater                                    | amounts  |
|                     |  |                     | and of bioboot quality  |  |

| Site: AEP For        | Storia to Lima Rater(s): Beter Hollinden, Chris Davisson  | Date: 6/30/2022   |
|----------------------|---|---|
| 2 2                  | Metric 1. Wetland Area (size).  | Wetland 1-T   |
|                      |   |   |
| max 6 pts. subtotal  | Select one size class and assign score. >50 acres (>20.2ha) (6 pts)   |   |
|                      | 25 to <50 acres (10.1 to <20.2ha) (5 pts)   |   |
|                      | 10 to <25 acres (4 to <10.1ha) (4 pts)<br>3 to <10 acres (1.2 to <4ha) (3 pts)  |   |
|                      | 0.3 to <3 acres (0.12 to <1.2ha) (2pts)   |   |
|                      | 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)<br><0.1 acres (0.04ha) (0 pts)   |   |
| 10                   | Metric 2. Upland buffers and surrounding land use.  |   |
| 13                   | Spiana baners and surrounding land door   |   |
| max 14 pts. subtotal | 2a. Calculate average buffer width. Select only one and assign score. Do not double check.  |   |
|                      | WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)      |   |
|                      | NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)  |   |
|                      | VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)  2b. Intensity of surrounding land use. Select one or double check and average.      |   |
|                      | VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)  |   |
|                      | LOW. Old field (>10 years), shrub land, young second growth forest. (5)  MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fall | ow field. (3)   |
|                      | HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)  |   |
| 7 10                 | Metric 3. Hydrology.  |   |
| max 30 pts. subtotal | 3a. Sources of Water. Score all that apply.  3b. Connectivity. Score all  |   |
|                      | High pH groundwater (5)  Other groundwater (3)  100 year floodpla Between stream  | ain (1)<br>/lake and other human use (1)  |
|                      | Precipitation (1)   | ipland (e.g. forest), complex (1)   |
|                      |   | r upland corridor (1)<br>turation. Score one or dbl ched  |
|                      |   | ently inundated/saturated (4)   |
|                      | >0.7 (27.6in) (3) Regularly inunda  | ted/saturated (3)   |
|                      | 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inunc<br><pre></pre>  | rated in upper 30cm (12in) (1)  |
|                      | 3e. Modifications to natural hydrologic regime. Score one or double check and average.  |   |
|                      | None or none apparent (12) Check all disturbances observed  Recovered (7) ditch point source (not   | nstormwater)  |
|                      | Recovered (7)  Recovering (3)  ditch  bilditch  continuous point source (not bildit)  filling/grading   | istorriwater)   |
|                      | Recent or no recovery (1) dike volume road bed/RR trace   | :k  |
|                      | weir dredging stormwater input other  |   |
|                      |   |   |
| 6 16                 | Metric 4. Habitat Alteration and Development.   |   |
| max 20 pts. subtotal | 4a. Substrate disturbance. Score one or double check and average.   |   |
|                      | None or none apparent (4)  Recovered (3)  |   |
|                      | Recovering (2)  |   |
|                      | Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.   |   |
|                      | Excellent (7)   |   |
|                      | Very good (6)   |   |
|                      | Good (5) Moderately good (4)  |   |
|                      | Fair (3)  |   |
|                      | Poor to fair (2)  |   |
|                      | 4c. Habitat alteration. Score one or double check and average.  |   |
|                      | None or none apparent (9) Check all disturbances observed   | mount   |
|                      | Recovered (6) mowing shrub/sapling red Recovering (3) grazing shrub/sapling red herbaceous/aque   | atic bed removal  |
|                      | Recent or no recovery (1) clearcutting sedimentation  | Total Control of the |
| 11                   | selective cutting dredging woody debris removal farming   |   |
| 16                   | toxic pollutants Inutrient enrichm  | ent   |
| subtotal this pa     |   |   |
| ast revised 1 Februa | ry 2001 jjm   |   |

| 0:1                  | ostoria to   |   | ater(s): Bella H   | ollinan, Cwis Davisson  | Date: 6/30/2022   |
|----------------------|--|---|--|---|---|
|                      | 1  |   | CIVITION IN  | Alliedy Colls Paulosoft   | Wetland 1-T   |
| 10<br>subtotal first | j  |   | 6.50   |   |   |
| 0 16                 | Wetric 5   | . Special We  | tlands.  |   |   |
| max 10 pts. subtotal | Bog (Fen (Old general Lake) Lake Lake Relic Know   | (10) prowth forest (10) pre forested wetland (5) Erie coastal/tributary we Erie coastal/tributary we Plain Sand Prairies (Oa t Wet Prairies (10) who occurrence state/fede ficant migratory songbird gory 1 Wetland. See Qu | etland-unrestricted hydro<br>etland-restricted hydro<br>k Openings) (10)<br>ral threatened or enda<br>d/water fowl habitat or<br>lestion 1 Qualitative R | ingered species (10)<br>usage (10)<br>ating (-10)   | onography.  |
| -3 13                | 2  |   |  | erspersion, microt  | opograpny.  |
| max 20 pts. subtotal |  | egetation Communities.  nt using 0 to 3 scale.  |  | Community Cover Scale Absent or comprises <0.1ha (0.2)  | 471 perce) contiguous area                              |
|                      |  | itic bed<br>rgent   | 1  | Present and either comprises sm<br>vegetation and is of moderate<br>significant part but is of low que  | nall part of wetland's quality, or comprises a          |
|                      | Fores<br>Mudf<br>Oper  |   | 2  | Present and either comprises sig<br>vegetation and is of moderate<br>part and is of high quality  | nificant part of wetland's                              |
|                      |  | plan view) Interspersion  | 3  | Present and comprises significant vegetation and is of high quality   |   |
|                      | Select only one  |   | Nagrative De   | escription of Vocatation Quality  |   |
|                      | High<br>Mode   | erately high(4)   | low  | Low spp diversity and/or predom   | inance of nonnative or                                  |
|                      |  | erate (3)   |  | disturbance tolerant native spe   |   |
|                      | Low ( None  6c. Coverage of  |   |  | Native spp are dominant compor<br>although nonnative and/or distu<br>can also be present, and speci<br>moderately high, but generally<br>threatened or endangered spp | urbance tolerant native spp<br>es diversity moderate to |
|                      | Mode<br>Spars  | sive >75% cover (-5)<br>rate 25-75% cover (-3)<br>se 5-25% cover (-1)   | high   | A predominance of native specie<br>and/or disturbance tolerant nati<br>absent, and high spp diversity<br>the presence of rare, threatene                              | ve spp absent or virtually and often, but not always,   |
|                      |  | y absent <5% cover (0)  |  |   |   |
|                      | Abser  |   | Mudflat and<br>0   | Open Water Class Quality Absent <0.1ha (0.247 acres)  |   |
|                      | Charles and the Charles of the Charl | nt using 0 to 3 scale.  | 1  | Low 0.1 to <1ha (0.247 acres)   | cres)   |
|                      |  | ated hummucks/tussuck   | s 2  | Moderate 1 to <4ha (2.47 to 9.88  |   |
|                      |  | e woody debris >15cm (  |  | High 4ha (9.88 acres) or more   |   |
|                      |  | ing dead >25cm (10in) of ibian breeding pools   | Microtopogr  | aphy Cover Scale  |   |
|                      |  |   | 0  | Absent  |   |
|                      |  |   | 1  | Present very small amounts or if of marginal quality  |   |
|                      |  |   | 2  | Present in moderate amounts, bu<br>quality or in small amounts of h   | ighest quality  |
| 4.0                  |  |   | 3  | Present in moderate or greater as<br>and of highest quality   | mounts  |

| Site: ACP Fostoria to Lima  | Rater(s): Beth Hollinder  | , Chris Davisson Date: 7/1/22   |
|---|---|---|
|   |   | wetland 1-0   |
| Metric 1. Wetland   | Area (size).  |   |
| max 6 pts. subtotal Select one size class and assign so             | ore.  |   |
| >50 acres (>20.2ha) (6 p  | s)  |   |
| 25 to <50 acres (10.1 to < 10 to <25 acres (4 to <10                |   |   |
| 3 to <10 acres (1.2 to <4)  |   |   |
| 0.3 to <3 acres (0.12 to <  |   |   |
| 0.1 to <0.3 acres (0.04 to <0.1 acres (0.04ha) (0 pt                |   |   |
| 7 8 Metric 2. Upland b  | uffers and surroundi  | ng land use.  |
| max 14 pts. subtotal 2a. Calculate average buffer width             | Select only one and assign score. D   | o not double check.   |
| WIDE. Buffers average 5   | Om (164ft) or more around wetland pe<br>ge 25m to <50m (82 to <164ft) around      | rimeter (7)   |
| NARROW. Buffers avera   | ge 10m to <25m (32ft to <82ft) around   | d wetland perimeter (1)   |
| VERY NARROW. Buffer   | s average <10m (<32ft) around wetlan  | d perimeter (0)   |
|   | e. Select one or double check and av<br>or older forest, prairie, savannah, wild  |   |
| LOW. Old field (>10 year  | s), shrub land, young second growth for   | orest. (5)  |
| MODERATELY HIGH. R  | esidential, fenced pasture, park, conse<br>open pasture, row cropping, mining, co | ervation tillage, new fallow field. (3)   |
| BA 4 . O III de le el   |   |   |
| 7 15 Metric 3. Hydrolog   | у.  |   |
| max 30 pts. subtotal 3a. Sources of Water. Score all th             | at apply. 3b.   | Connectivity. Score all that apply.   |
| High pH groundwater (5)   |   | 100 year floodplain (1)  Between stream/lake and other human use (1)                                  |
| Other groundwater (3) Precipitation (1)                             |   | Part of wetland/upland (e.g. forest), complex (1)   |
| Seasonal/Intermittent sur   |   | Part of riparian or upland corridor (1)   |
| Perennial surface water (<br>3c. <u>Maximum</u> water depth. Select |   | Duration inundation/saturation. Score one or dbl check.  Semi- to permanently inundated/saturated (4) |
| >0.7 (27.6in) (3)   |   | Regularly inundated/saturated (3)   |
| 0.4 to 0.7m (15.7 to 27.6<br>0.4m (<15.7in) (1)                     | n) (2)  | Seasonally inundated (2) Seasonally saturated in upper 30cm (12in) (1)                                |
| 3e. Modifications to natural hydrolo                                | gic regime. Score one or double chec  |   |
| None or none apparent (   |   | point source (nonstormwater)  |
| Recovered (7)  Recovering (3)                                       | ditch   | filling/grading   |
| Recent or no recovery (1  |   | road bed/RR track   |
|   | stormwater input  | dredging other  |
| Blatuia A Habitat A   | Iteration and Develo  | nmont   |
| 2 23 Wetric 4. Habitat P  | illeration and Develo   | pinent.   |
| max 20 pts. subtotal 4a. Substrate disturbance. Score               | one or double check and average.  |   |
| None or none apparent (   |   |   |
| Recovered (3) Recovering (2)  |   |   |
| Recent or no recovery (1  |   |   |
| 4b, Habitat development. Select o                                   | nly one and assign score.   |   |
| Very good (6)   |   |   |
| Good (5) Moderately good (4)  |   |   |
| Fair (3)  |   |   |
| Poor to fair (2)<br>Poor (1)  |   |   |
| 4c. Habitat alteration. Score one of                                | r double check and average.   |   |
| None or none apparent (   |   | abrub/conline re  |
| Recovered (6)  Recovering (3)                                       | mowing<br>grazing   | shrub/sapling removal herbaceous/aquatic bed removal  |
| Recent or no recovery (1  | clearcutting  | sedimentation   |
| 12  | selective cutting woody debris removal  | dredging farming  |
| 25  | toxic pollutants  | nutrient enrichment   |
| subtotal this page  |   |   |
| last revised 1 February 2001 jjm                                    |   |   |

| Site: AEP FO       | storia to Lima Rate  | r(s): Beth He    | ollinder, Chris Davisson                                       | Date: 7/1/22                |
|--------------------|--|------------------|--|-----------------------------|
|                    |  |                  |  | wetland 1-L                 |
| 12                 |  |                  |  |                             |
| 2)                 |  |                  |  |                             |
| subtotal first pa  | ge   |                  |  |                             |
| 0 23               | Metric 5. Special Wetlar   | nds.             |  |                             |
| x 10 pts subtotal  | Check all that apply and score as indicated.                                   |                  |  |                             |
|                    | Bog (10)   |                  |  |                             |
|                    | Fen (10)   |                  |  |                             |
|                    | Old growth forest (10)   |                  |  |                             |
|                    | Mature forested wetland (5)  |                  |  |                             |
|                    | Lake Erie coastal/tributary wetland  | unrestricted hyd | drology (10)   |                             |
|                    | Lake Erie coastal/tributary wetland  |                  | ology (5)  |                             |
|                    | Lake Plain Sand Prairies (Oak Ope  | enings) (10)     |  |                             |
|                    | Relict Wet Prairies (10)   | catanad as and   | angered species (10)   |                             |
|                    | Known occurrence state/federal the<br>Significant migratory songbird/water     |                  |  |                             |
|                    | Category 1 Wetland. See Question   |                  |  |                             |
|                    |  |                  |  | onography                   |
| 3 26               | Metric 6. Plant commun   | iities, int      | erspersion, inicion  | opograpity.                 |
| 9                  |  |                  |  |                             |
| ax 20 pts subtotal | 6a. Wetland Vegetation Communities.  |                  | Absent or comprises <0.1ha (0.                                 | 2471 acres) continuous are  |
|                    | Score all present using 0 to 3 scale.  Aquatic bed                             | 0                | Present and either comprises si                                | mall part of wetland's      |
|                    | 7 Emergent   |                  | vegetation and is of moderate                                  | quality, or comprises a     |
|                    | Shrub  |                  | significant part but is of low qu                              | uality                      |
|                    | Forest   | 2                | Present and either comprises si                                | gnificant part of wetland's |
|                    | Mudflats   |                  | vegetation and is of moderate                                  | quality or comprises a sma  |
|                    | Open water   |                  | part and is of high quality                                    |                             |
|                    | Other  | 3                | Present and comprises significa                                |                             |
|                    | 6b. horizontal (plan view) Interspersion.                                      |                  | vegetation and is of high qual                                 | ity                         |
|                    | Select only one. High (5)  | Narrative D      | escription of Vegetation Quality                               |                             |
|                    | Moderately high(4)   | low              | Low spp diversity and/or predor                                | ninance of nonnative or     |
|                    | Moderate (3)   |                  | disturbance tolerant native sp                                 | ecies                       |
|                    | √ Moderately low (2)   | mod              | Native spp are dominant compo                                  |                             |
|                    | Low (1)  |                  | although nonnative and/or dis                                  |                             |
|                    | None (0)   |                  | can also be present, and spec                                  |                             |
|                    | 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add |                  | moderately high, but generally<br>threatened or endangered spr |                             |
|                    | or deduct points for coverage  | high             | A predominance of native speci                                 |                             |
|                    | Extensive >75% cover (-5)  | 9                | and/or disturbance tolerant na                                 |                             |
|                    | Moderate 25-75% cover (-3)   |                  | absent, and high spp diversity                                 | and often, but not always,  |
|                    | √ Sparse 5-25% cover (-1)  |                  | the presence of rare, threaten                                 | ed, or endangered spp       |
|                    | Nearly absent <5% cover (0)  | Mudflat an       | d Open Water Class Quality                                     |                             |
|                    | Absent (1) 6d. Microtopography.  | 0                | Absent <0.1ha (0.247 acres)                                    |                             |
|                    | Score all present using 0 to 3 scale.  | 1                | Low 0.1 to <1ha (0.247 to 2.47                                 | acres)                      |
|                    | Vegetated hummucks/tussucks  | 2                | Moderate 1 to <4ha (2.47 to 9.1                                | 88 acres)                   |
|                    | O Coarse woody debris >15cm (6in)  | 3                | High 4ha (9.88 acres) or more                                  |                             |
|                    | Standing dead >25cm (10in) dbh   |                  |  |                             |
|                    | Amphibian breeding pools   |                  | graphy Cover Scale   |                             |
|                    |  | 0                | Absent Present very small amounts or                           | if more common              |
|                    |  | 1                | of marginal quality  | i more common               |
|                    |  | 2                | Present in moderate amounts, t                                 | out not of highest          |
|                    |  | _                | quality or in small amounts of                                 |                             |
|                    |  | 3                | Present in moderate or greater                                 |                             |
|                    |  | -                | and of highest quality   |                             |
|                    |  |                  |  |                             |

Check all disturbances observed

woody debris removal

shrub/sapling removal herbaceous/aquatic bed removal

sedimentation

nutrient enrichment

dredaina

farming

mowing

grazing

clearcutting

selective cutting

toxic pollutants

4c. Habitat alteration. Score one or double check and average

None or none apparent (9)

Recent or no recovery (1)

Recovered (6)

Recovering (3)

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| Site: AEP Fostoria to Lima Rater  | s): Beth   | Hollinden, Chris Davisson   Date: 7/1/22  |
|---|--|---|
| 23  |  | Wetland 1   |
| Metric 5. Special Wetlan  | ds.  |   |
| max 10 pts. subtotal Check all that apply and score as indicated.  Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland-ru Lake Plain Sand Prairies (Oak Open Relict Wet Prairies (10) Known occurrence state/federal thre Significant migratory songbird/water Category 1 Wetland. See Question  Metric 6. Plant communications  Metric 6. Plant communications  Bog (10) Fen (10) Mature forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland-ru Lake Plain Sand Prairies (10) Known occurrence state/federal thre Significant migratory songbird/water Category 1 Wetland. See Question | estricted hydro<br>iings) (10)<br>atened or enda<br>fowl habitat or<br>1 Qualitative R | angered species (10) usage (10)   |
| max 20 pts subtotal 6a, Wetland Vegetation Communities.   |  | Community Cover Scale   |
| Score all present using 0 to 3 scale.   | 0  | Absent or comprises <0.1ha (0.2471 acres) contiguous are  |
| Aquatic bed  Z Emergent Shrub   | 1  | Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality   |
| Forest Mudflats Open water  | 2  | Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality   |
| Other6b. horizontal (plan view) Interspersion.  | 3  | Present and comprises significant part, or more, of wetland vegetation and is of high quality   |
| Select only one.  | Namedius D   | anniation of Vanatation Quality   |
| High (5)  |  | escription of Vegetation Quality  |
| Moderately high(4)  Moderate (3)  | low  | Low spp diversity and/or predominance of nonnative or disturbance tolerant native species   |
| Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add  | mod  | Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native sp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp |
| or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)   | high   | A predominance of native species, with nonnative spp<br>and/or disturbance tolerant native spp absent or virtually<br>absent, and high spp diversity and often, but not always,<br>the presence of rare, threatened, or endangered spp                |
| Nearly absent <5% cover (0)   |  |   |
| Absent (1)  |  | d Open Water Class Quality  |
| 6d. Microtopography.  | 0  | Absent <0.1ha (0.247 acres)   |
| Score all present using 0 to 3 scale.   | 1  | Low 0.1 to <1ha (0.247 to 2.47 acres)   |
| Vegetated hummucks/tussucks Coarse woody debris >15cm (6in)   | 3  | Moderate 1 to <4ha (2.47 to 9.88 acres) High 4ha (9.88 acres) or more   |
| Standing dead >25cm (10in) dbh  |  | riigh 4ha (5.00 acres) of more  |
| Amphibian breeding pools  | Microtopog   | graphy Cover Scale  |
|   | 0  | Absent  |
|   | 1  | Present very small amounts or if more common of marginal quality  |
|   | 2  | Present in moderate amounts, but not of highest quality or in small amounts of highest quality  |
|   | 3  | Present in moderate or greater amounts and of highest quality   |

| Site: AEP For         | Storia to Lima Rater(s): Beth Hollinden, Cluis Davisson Date: 7/1/22   |     |
|-----------------------|--|-----|
|                       | Metric 1. Wetland Area (size).   | 1-  |
| 00                    | motifo it vocidita Area (5126).  |     |
| max 6 pts. subtotal   | Select one size class and assign score.  |     |
|                       | >50 acres (>20.2ha) (6 pts)<br>25 to <50 acres (10.1 to <20.2ha) (5 pts)   |     |
|                       | 10 to <25 acres (4 to <10.1ha) (4 pts)   |     |
|                       | 3 to <10 acres (1.2 to <4ha) (3 pts)   |     |
|                       | 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)   |     |
|                       | √ <0.1 acres (0.04ha) (0 pts)  |     |
| 4 4                   | Metric 2. Upland buffers and surrounding land use.   |     |
| max 14 pts. subtotal  | 2a. Calculate average buffer width. Select only one and assign score. Do not double check.   |     |
|                       | WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)   |     |
|                       | MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)  NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)                                |     |
|                       | VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)   |     |
|                       | 2b. Intensity of surrounding land use. Select one or double check and average.  VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)                                 |     |
|                       | LOW. Old field (>10 years), shrub land, young second growth forest. (5)  |     |
|                       | MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)  HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)                  |     |
| 0 10                  | Metric 3. Hydrology.   |     |
| 8 12                  | inetile 3. Trydrology.   |     |
| max 30 pts. subtotal  | 3a. Sources of Water. Score all that apply.  3b. Connectivity. Score all that apply.   |     |
|                       | High pH groundwater (5) 100 year floodplain (1)  |     |
|                       | Other groundwater (3)  Precipitation (1)  Between stream/lake and other human use (1)  Part of wetland/upland (e.g. forest), complex   |     |
|                       | Seasonal/Intermittent surface water (3)  | (., |
|                       | Perennial surface water (lake or stream) (5)  3d. Duration inundation/saturation. Score one or dbl ch  |     |
|                       | 3c. Maximum water depth. Select only one and assign score. Semi- to permanently inundated/saturated (4) >0.7 (27.6in) (3) Regularly inundated/saturated (3)                                      | ,   |
|                       | 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2)  |     |
|                       | <ul> <li>&lt;0.4m (&lt;15.7in) (1)</li> <li>Seasonally saturated in upper 30cm (12in) (1)</li> <li>Modifications to natural hydrologic regime. Score one or double check and average.</li> </ul> | )   |
|                       | None or none apparent (12) Check all disturbances observed   |     |
|                       | Recovered (7) ditch point source (nonstormwater)   |     |
|                       | Recovering (3) tile filling/grading road bed/RR track  |     |
|                       | weir dredging  |     |
|                       | stormwater inputother  |     |
| 0 20                  | Metric 4. Habitat Alteration and Development.  |     |
| 8 20                  |  |     |
| max 20 pts. subtotal  | 4a. Substrate disturbance. Score one or double check and average.  |     |
|                       | None or none apparent (4) Recovered (3)  |     |
|                       | Recovering (2)   |     |
|                       | Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  |     |
|                       | Excellent (7)  |     |
|                       | Very good (6) Good (5)   |     |
|                       | Moderately good (4)  |     |
|                       | Fair (3)   |     |
|                       | Poor to fair (2) Poor (1)  |     |
|                       | 4c. Habitat alteration. Score one or double check and average.   |     |
|                       | None or none apparent (9) Check all disturbances observed  |     |
|                       | Recovered (6) mowing shrub/sapling removal herbaceous/aquatic bed removal  |     |
|                       | Recent or no recovery (1) clearcutting sedimentation   |     |
| 10                    | selective cutting dredging woody debris removal farming  |     |
| 10                    | toxic pollutants Inutrient enrichment  |     |
| subtotal this p       |  |     |
| last revised 1 Februa | ary 2001 jjm   |     |

| te: AEP Fostoria to Lima                                    | Rater(s): Beth           | Hollinder, Clur's Davisson Date: 7/1/202  |
|---|--------------------------|---|
|   |                          | wetland 1-a   |
| 20  |                          |   |
| 20  |                          |   |
| subtotal first page   |                          |   |
| Metric 5. Special W   | <i>l</i> etlands.        |   |
| 20  |                          |   |
| c 10 pts. subtotal Check all that apply and score as inc    | dicated.                 |   |
| Bog (10)  |                          |   |
| Fen (10)  |                          |   |
| Old growth forest (10)                                      |                          |   |
| Mature forested wetland (5                                  |                          |   |
| Lake Erie coastal/tributary                                 | wetland-unrestricted hyd | drology (10)  |
| Lake Erie coastal/tributary                                 |                          | ology (5)   |
| Lake Plain Sand Prairies ( Relict Wet Prairies (10)         | Oak Openings) (10)       |   |
| Known occurrence state/fe                                   | aderal threatened or end | angared energies (10)   |
| Significant migratory song                                  |                          |   |
| Category 1 Wetland. See                                     |                          |   |
|   |                          |   |
| 2   2 3   Wetric 6. Plant con                               | nmunities, int           | erspersion, microtopography.  |
| 20 00   |                          |   |
| x 20 pts. subtotal 6a. Wetland Vegetation Communitie        |                          | Community Cover Scale   |
| Score all present using 0 to 3 scale.                       | _                        | Absent or comprises <0.1ha (0.2471 acres) contiguous area   |
| Aquatic bed   | 1                        | Present and either comprises small part of wetland's<br>vegetation and is of moderate quality, or comprises a |
| Shrub   |                          | significant part but is of low quality  |
| Forest  | 2                        | Present and either comprises significant part of wetland's  |
| Mudflats  | -                        | vegetation and is of moderate quality or comprises a sma  |
| Open water  |                          | part and is of high quality   |
| Other   | 3                        | Present and comprises significant part, or more, of wetland   |
| 6b. horizontal (plan view) Interspers                       | sion.                    | vegetation and is of high quality   |
| Select only one.  |                          |   |
| High (5)  | _                        | escription of Vegetation Quality  |
| Moderately high(4)  | low                      | Low spp diversity and/or predominance of nonnative or   |
| ✓ Moderate (3) ✓ Moderately low (2)                         | mod                      | Native spp are dominant component of the vegetation,  |
| Low (1)   | mod                      | although nonnative and/or disturbance tolerant native spp   |
| None (0)  |                          | can also be present, and species diversity moderate to  |
| 6c. Coverage of invasive plants. Re                         | efer                     | moderately high, but generally w/o presence of rare   |
| to Table 1 ORAM long form for list.                         |                          | threatened or endangered spp  |
| or deduct points for coverage                               | high                     | A predominance of native species, with nonnative spp  |
| Extensive >75% cover (-5                                    | )                        | and/or disturbance tolerant native spp absent or virtually  |
| Moderate 25-75% cover (-                                    | -3)                      | absent, and high spp diversity and often, but not always,   |
| Sparse 5-25% cover (-1)                                     |                          | the presence of rare, threatened, or endangered spp   |
| Nearly absent <5% cover                                     |                          | d Ones Meter Class Ovelity  |
| Absent (1)  | 0                        | d Open Water Class Quality Absent <0.1ha (0.247 acres)  |
| 6d. Microtopography.  Score all present using 0 to 3 scale. |                          | Low 0.1 to <1ha (0.247 to 2.47 acres)   |
| Vegetated hummucks/tuss                                     |                          | Moderate 1 to <4ha (2.47 to 9.88 acres)   |
| 1 Coarse woody debris >15                                   |                          | High 4ha (9.88 acres) or more   |
| Standing dead >25cm (10                                     |                          |   |
| Amphibian breeding pools                                    |                          | graphy Cover Scale  |
|   | 0                        | Absent  |
|   | 1                        | Present very small amounts or if more common of marginal quality  |
|   |                          | of marginal quanty  |
|   | 2                        | Present in moderate amounts, but not of highest quality or in small amounts of highest quality                |

ORAM v. 5.0 Field Form Quantitative Rating Site: ASP Fostoria to Lima Rater(s): Beth Hollinder, Chris Davisson Date: 7/1/22 wetland 1-X Metric 1. Wetland Area (size). Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. 2a. Calculate average buffer width. Select only one and assign score. Do not double check. WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply. High pH groundwater (5) 100 year floodplain (1) Other groundwater (3) Between stream/lake and other human use (1) Precipitation (1) Part of wetland/upland (e.g. forest), complex (1) Seasonal/Intermittent surface water (3) Part of riparian or upland corridor (1) Perennial surface water (lake or stream) (5) 3d. Duration inundation/saturation. Score one or dbl check. Maximum water depth. Select only one and assign score. Semi- to permanently inundated/saturated (4) >0.7 (27.6in) (3) Regularly inundated/saturated (3) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) <0.4m (<15.7in) (1) Seasonally saturated in upper 30cm (12in) (1) 3e. Modifications to natural hydrologic regime. Score one or double check and average. None or none apparent (12) Check all disturbances observed Recovered (7) ditch point source (nonstormwater) Recovering (3) tile filling/grading Recent or no recovery (1) road bed/RR track dike weir dredging stormwater input other Metric 4. Habitat Alteration and Development. 01 subtotal Substrate disturbance. Score one or double check and average. 4a. None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select only one and assign score. Excellent (7) Very good (6)

Good (5) Moderately good (4) Fair (3) Poor to fair (2)

Poor (1) 4c. Habitat alteration. Score one or double check and average.

None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)

Check all disturbances observed mowing shrub/sapling removal grazing herbaceous/aquatic bed removal clearcutting sedimentation selective cutting dredging woody debris removal farming toxic pollutants nutrient enrichment

last revised 1 February 2001 jjm

| Site: AEP Fo         | storia to Cima Rater  | (s): Beth H     | follingen, Claris Davisson Date: 7/1/2027  |
|----------------------|---|-----------------|--|
|                      | 7   |                 | Wetland 1-   |
| 77                   |   |                 |  |
| subtotal first p     |   |                 |  |
| subtotal first p     |   | -1-             |  |
| 0177                 | Metric 5. Special Wetlan  | ias.            |  |
| ax 10 pts. subtotal  |   |                 |  |
| ax 10 pts. subtotal  | Check all that apply and score as indicated.  Bog (10)                              |                 |  |
|                      | Fen (10)  |                 |  |
|                      | Old growth forest (10)  |                 |  |
|                      | Mature forested wetland (5)   |                 |  |
|                      | Lake Erie coastal/tributary wetland-u   |                 |  |
|                      | Lake Erie coastal/tributary wetland-r   |                 | ology (5)  |
|                      | Lake Plain Sand Prairies (Oak Oper Relict Wet Prairies (10)                         | ilings) (10)    |  |
|                      | Known occurrence state/federal three  | atened or end   | angered species (10)   |
|                      | Significant migratory songbird/water  |                 |  |
|                      | Category 1 Wetland. See Question  | 1 Qualitative F | Rating (-(0)   |
| 0 20                 | Metric 6. Plant commun  | ities, int      | erspersion, microtopography.   |
| 0 68                 |   | •               |  |
| nax 20 pts. subtotal | 6a. Wetland Vegetation Communities.   | Vegetation      | Community Cover Scale  |
|                      | Score all present using 0 to 3 scale.   | 0               | Absent or comprises <0.1ha (0.2471 acres) contiguous area  |
|                      | Aquatic bed Emergent  | 1               | Present and either comprises small part of wetland's<br>vegetation and is of moderate quality, or comprises a  |
|                      | Shrub   |                 | significant part but is of low quality   |
|                      | Forest  | 2               | Present and either comprises significant part of wetland's   |
|                      | Mudflats  |                 | vegetation and is of moderate quality or comprises a sma   |
|                      | Open water  |                 | part and is of high quality  |
|                      | Other   | 3               | Present and comprises significant part, or more, of wetland  |
|                      | <ol> <li>horizontal (plan view) Interspersion.</li> <li>Select only one.</li> </ol> |                 | vegetation and is of high quality  |
|                      | High (5)  | Narrative D     | escription of Vegetation Quality   |
|                      | Moderately high(4)  | low             | Low spp diversity and/or predominance of nonnative or  |
|                      | Moderate (3)  |                 | disturbance tolerant native species  |
|                      | Moderately low (2)  | mod             | Native spp are dominant component of the vegetation,   |
|                      | Low (1)<br>None (0)   |                 | although nonnative and/or disturbance tolerant native spp<br>can also be present, and species diversity moderate to  |
|                      | 6c. Coverage of invasive plants. Refer  |                 | moderately high, but generally w/o presence of rare  |
|                      | to Table 1 ORAM long form for list. Add   |                 | threatened or endangered spp   |
|                      | or deduct points for coverage   | high            | A predominance of native species, with nonnative spp   |
|                      | Extensive >75% cover (-5)  Moderate 25-75% cover (-3)                               |                 | and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always,   |
|                      | Sparse 5-25% cover (-1)   |                 | the presence of rare, threatened, or endangered spp  |
|                      | Nearly absent <5% cover (0)   | -               | The state of the s |
|                      | Absent (1)  |                 | d Open Water Class Quality   |
|                      | 6d. Microtopography.  | 0               | Absent <0.1ha (0.247 acres)  |
|                      | Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks                  | 1               | Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)   |
|                      | Coarse woody debris >15cm (6in)   | 3               | High 4ha (9.88 acres) or more  |
|                      | O Standing dead >25cm (10in) dbh  |                 | ing. ma (elect delect) of file.  |
|                      | Amphibian breeding pools  | Microtopog      | graphy Cover Scale   |
|                      |   | 0               | Absent   |
|                      |   | 1               | Present very small amounts or if more common   |
|                      |   | 2               | of marginal quality  Present in moderate amounts, but not of highest   |
|                      |   |                 | quality or in small amounts of highest quality   |
|                      |   | 3               | Present in moderate or greater amounts   |
|                      |   |                 | and of highest quality   |

ORAM v. 5.0 Field Form Quantitative Rating Date: 7/1/22 Rater(s): Beter Hollinder, Chris Davisson Site: ASP Fostoria to Cinna wetland 1-Y Metric 1. Wetland Area (size). subtotal Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. Calculate average buffer width. Select only one and assign score. Do not double check. subtotal WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. 3a. Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply. 100 year floodplain (1) High pH groundwater (5) Other groundwater (3) Between stream/lake and other human use (1) Part of wetland/upland (e.g. forest), complex (1) Precipitation (1) Part of riparian or upland corridor (1) Seasonal/Intermittent surface water (3) 3d. Duration inundation/saturation. Score one or dbl check. Perennial surface water (lake or stream) (5) Semi- to permanently inundated/saturated (4) Maximum water depth. Select only one and assign score. Regularly inundated/saturated (3) >0.7 (27.6in) (3) Seasonally inundated (2) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally saturated in upper 30cm (12in) (1) <0.4m (<15.7in) (1) Modifications to natural hydrologic regime. Score one or double check and average Check all disturbances observed None or none apparent (12) Recovered (7) ditch point source (nonstormwater) Recovering (3) tile filling/grading road bed/RR track Recent or no recovery (1) dike weir dredging stormwater input other Metric 4. Habitat Alteration and Development. 4a. Substrate disturbance. Score one or double check and average. None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select only one and assign score. 4b Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average. None or none apparent (9) Check all disturbances observed

mowing

grazing

clearcutting

selective cutting

toxic pollutants

woody debris removal

shrub/sapling removal

sedimentation

nutrient enrichment

dredging

farming

herbaceous/aquatic bed removal

last revised 1 February 2001 jjm

Recovered (6) Recovering (3)

Recent or no recovery (1)

| Site: AEP 7        | Estoria to Lima  | Rater(s): Beth   | tollinden, chris Davisson   | Date: 7/1/2022   |
|--------------------|--|--|---|--|
| 3° subtotal firs   | t page   |  | ,   | wetland 1-4  |
| 0 24               | Metric 5. Special  | Wetlands.  |   |  |
| ax 10 pts. subtoti | Chock all that apply and access  | 1-41-4-4   |   |  |
| nax 10 pts. Subton | Bog (10) Fen (10) Old growth forest (10) Mature forested wetlar Lake Erie coastal/tribu Lake Erie coastal/tribu Lake Plain Sand Prairi Relict Wet Prairies (10 | nd (5)<br>tary wetland-unrestricted hyd<br>tary wetland-restricted hydro<br>es (Oak Openings) (10) | logy (5)  |  |
|                    | Significant migratory s  | ongbird/water fowl habitat or  | usage (10)  |  |
|                    | Category 1 Wetland.  | See Question 1 Qualitative F   | Rating (-10)  |  |
| -2 32              |  |  | erspersion, microt  | opography.   |
| max 20 pts. subto  | ou. Wetland Vegetation Commit  | unities. Vegetation  | Community Cover Scale   |  |
|                    | Score all present using 0 to 3 sc  |  | Absent or comprises <0.1ha (0.2   |  |
|                    | Aquatic bed Emergent Shrub   | 1  | Present and either comprises so<br>vegetation and is of moderate<br>significant part but is of low qu | quality, or comprises a  |
|                    | Forest Mudflats Open water   | 2  | Present and either comprises significant vegetation and is of moderate part and is of high quality    |  |
|                    | Other6b. horizontal (plan view) Inters   | persion. 3   | Present and comprises significa<br>vegetation and is of high quali                                    | Allegan Control of the Control of th |
|                    | Select only one. High (5)  | Narrative F  | acceptation of Vacatation Quality   |  |
|                    | Moderately high(4) Moderate (3)  | low  | Low spp diversity and/or predon<br>disturbance tolerant native spe                                    |  |
|                    | Moderately low (2) Low (1)   | mod  | Native spp are dominant compo<br>although nonnative and/or dist                                       | nent of the vegetation,  |
|                    | None (0)  6c. Coverage of invasive plants to Table 1 ORAM long form for I  |  | can also be present, and spec<br>moderately high, but generally<br>threatened or endangered spp       | w/o presence of rare   |
|                    | or deduct points for coverage  Extensive >75% cove  Moderate 25-75% cov  | ver (-3)   | A predominance of native specie<br>and/or disturbance tolerant na<br>absent, and high spp diversity   | es, with nonnative spp<br>tive spp absent or virtually<br>and often, but not always,   |
|                    | Sparse 5-25% cover (<br>Nearly absent <5% co   |  | the presence of rare, threaten  | ed, or endangered spp  |
|                    | Absent (1)   |  | d Open Water Class Quality  |  |
|                    | 6d. Microtopography.   | 0  | Absent <0.1ha (0.247 acres)   |  |
|                    | Score all present using 0 to 3 so  |  | Low 0.1 to <1ha (0.247 to 2.47 a  |  |
|                    | O Vegetated hummucks   |  | Moderate 1 to <4ha (2.47 to 9.8   | 88 acres)  |
|                    | Coarse woody debris Standing dead >25cm Amphibian breeding p   | (10in) dbh   | High 4ha (9.88 acres) or more   |  |
|                    | Amphibian breeding p   | 0 <u>Microtopo</u>   | Absent  |  |
|                    |  | 1  | Present very small amounts or i<br>of marginal quality  |  |
|                    |  | 2  | Present in moderate amounts, be<br>quality or in small amounts of                                     | highest quality  |
| 10                 |  | 3  | Present in moderate or greater and of highest quality   | amounts  |

| Site: AEP FO          | storia to Cima Rater(s): Beth Hollinder, Chris Davisson  | Date: 7/1/22  |
|-----------------------|--|---|
| 2 2                   | Metric 1. Wetland Area (size).   | wetland 1-Z   |
| 2 -                   |  |   |
| max 6 pts. subtotal   | Select one size class and assign score. >50 acres (>20.2ha) (6 pts)  |   |
|                       | 25 to <50 acres (10.1 to <20.2ha) (5 pts)  |   |
|                       | 10 to <25 acres (4 to <10.1ha) (4 pts)   |   |
|                       | 3 to <10 acres (1.2 to <4ha) (3 pts)   |   |
|                       | 0.3 to <3 acres (0.12 to <1.2ha) (2pts)<br>0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)  |   |
|                       | <0.1 acres (0.04ha) (0 pts)  |   |
| 4 6                   | Metric 2. Upland buffers and surrounding land use.   |   |
| max 14 pts, subtotal  | 2a. Calculate average buffer width. Select only one and assign score. Do not double check.   |   |
|                       | WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)   |   |
|                       | MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)  NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)  |   |
|                       | VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)   |   |
|                       | 2b. Intensity of surrounding land use. Select one or double check and average.   |   |
|                       | VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)  LOW. Old field (>10 years), shrub land, young second growth forest. (5)  |   |
|                       | MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallo  | w field. (3)  |
|                       | HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)   |   |
| 9 15                  | Metric 3. Hydrology.   |   |
| max 30 pts. subtotal  | 3a. Sources of Water. Score all that apply.  3b. Connectivity. Score all   |   |
|                       | High pH groundwater (5)  |   |
|                       |  | lake and other human use (1) pland (e.g. forest), complex (1) |
|                       |  | upland corridor (1)   |
|                       |  | uration. Score one or dbl check.                              |
|                       | 3c. Maximum water depth. Select only one and assign score. Semi- to permane >0.7 (27.6in) (3) Regularly inundal  | ently inundated/saturated (4)                                 |
| A.                    | 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inund  |   |
|                       |  | ated in upper 30cm (12in) (1)                                 |
|                       | 3e. Modifications to natural hydrologic regime. Score one or double check and average.   |   |
|                       | None or none apparent (12) Check all disturbances observed Recovered (7) ditch point source (non   | stormwater)   |
|                       | Recovering (3)   | otominator)   |
|                       | Recent or no recovery (1) dike road bed/RR trac  | k   |
|                       | weir dredging stormwater input other   |   |
|                       |  |   |
| 9 24                  | Metric 4. Habitat Alteration and Development.  |   |
| max 20 pts. subtotal  | 4a. Substrate disturbance. Score one or double check and average.  |   |
|                       | None or none apparent (4)  |   |
|                       | Recovered (3) Recovering (2)   |   |
|                       | Recent or no recovery (1)  |   |
|                       | 4b. Habitat development. Select only one and assign score.   |   |
|                       | Excellent (7) Very good (6)  |   |
|                       | Good (5)   |   |
|                       | Moderately good (4)  |   |
|                       | Fair (3)   |   |
|                       | Poor to fair (2) Poor (1)  |   |
|                       | 4c. Habitat alteration. Score one or double check and average.   |   |
|                       | None or none apparent (9) Check all disturbances observed  |   |
|                       | Recovered (6) mowing shrub/sapling ren   | noval   |
|                       | Recovering (3) grazing herbaceous/aqua   | tic bed removal   |
|                       | Recent of no recovery (1)  |   |
| 24                    | woody debris removal farming   |   |
|                       | toxic pollutants nutrient enrichme   | ent   |
| subtotal this pa      | The state of the s |   |
| last revised 1 Februa | ry 2001 jjin   |   |

| Site: AEP          | Fastoria to Lima Rater   | (s): Beth.         | Hollinder, Chris Davisson Date: 7/1/2022  |
|--------------------|--|--------------------|---|
| 20                 | 1  |                    | Wetland 1-Z   |
| subtotal fire      | st page  |                    |   |
| 0 24               | Metric 5. Special Wetlar   | nds.               |   |
| max 10 pts. subtot | Check all that apply and score as indicated.                                 |                    |   |
|                    | Bog (10)   |                    |   |
|                    | Fen (10)   |                    |   |
|                    | Old growth forest (10)   |                    |   |
|                    | Mature forested wetland (5)  |                    | 4.0   |
|                    | Lake Erie coastal/tributary wetland-<br>Lake Erie coastal/tributary wetland- | unrestricted hydro | drology (10)  |
|                    | Lake Plain Sand Prairies (Oak Oper   | nings) (10)        | biogy (5)   |
|                    | Relict Wet Prairies (10)   | 95) (10)           |   |
|                    | Known occurrence state/federal three   | eatened or end     | angered species (10)  |
|                    | Significant migratory songbird/water   | r fowl habitat or  | rusage (10)   |
|                    | Category 1 Wetland. See Question   | 1 Qualitative F    | Rating (-10)  |
| -2 22              | Metric 6. Plant commun   | ities, int         | terspersion, microtopography.   |
| max 20 pts. subtot | ou. Wetland Vegetation Communities.  | Vegetation         | Community Cover Scale   |
|                    | Score all present using 0 to 3 scale.  | 0                  | Absent or comprises <0.1ha (0.2471 acres) contiguous area   |
|                    | Aquatic bed  | 1                  | Present and either comprises small part of wetland's  |
|                    | Emergent   |                    | vegetation and is of moderate quality, or comprises a   |
|                    | Shrub<br>Forest  |                    | significant part but is of low quality  |
|                    | Mudflats   | 2                  | Present and either comprises significant part of wetland's  |
|                    | Open water   |                    | vegetation and is of moderate quality or comprises a small part and is of high quality                              |
|                    | Other  | 3                  | Present and comprises significant part, or more, of wetland's   |
|                    | 6b. horizontal (plan view) Interspersion.                                    |                    | vegetation and is of high quality   |
|                    | Select only one.   |                    |   |
|                    | High (5)   | Narrative D        | Description of Vegetation Quality   |
|                    | Moderately high(4)   | low                | Low spp diversity and/or predominance of nonnative or   |
|                    | Moderate (3)   |                    | disturbance tolerant native species   |
|                    | Moderately low (2)   | mod                | Native spp are dominant component of the vegetation,  |
|                    | Low (1)<br>None (0)  |                    | although nonnative and/or disturbance tolerant native spp<br>can also be present, and species diversity moderate to |
|                    | 6c. Coverage of invasive plants. Refer                                       |                    | moderately high, but generally w/o presence of rare   |
|                    | to Table 1 ORAM long form for list. Add                                      |                    | threatened or endangered spp  |
|                    | or deduct points for coverage  | high               | A predominance of native species, with nonnative spp  |
|                    | Extensive >75% cover (-5)  |                    | and/or disturbance tolerant native spp absent or virtually  |
|                    | Moderate 25-75% cover (-3)   |                    | absent, and high spp diversity and often, but not always,   |
|                    | Sparse 5-25% cover (-1)  |                    | the presence of rare, threatened, or endangered spp   |
|                    | Nearly absent <5% cover (0)  |                    |   |
|                    | Absent (1)   |                    | d Open Water Class Quality  |
|                    | 6d. Microtopography.  Score all present using 0 to 3 scale.                  | 0                  | Absent <0.1ha (0.247 acres)   |
|                    | Vegetated hummucks/tussucks  | 2                  | Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)                                      |
|                    | Coarse woody debris >15cm (6in)  | 3                  | High 4ha (9.88 acres) or more   |
|                    | Standing dead >25cm (10in) dbh   |                    | riigh 4nd (0.00 doles) of more  |
|                    | Amphibian breeding pools   | Microtopod         | graphy Cover Scale  |
|                    |  | 0                  | Absent  |
|                    |  | 1                  | Present very small amounts or if more common  |
|                    |  |                    | of marginal quality   |
|                    |  | 2                  | Present in moderate amounts, but not of highest   |
|                    |  |                    | quality or in small amounts of highest quality  |
| _                  |  | 3                  | Present in moderate or greater amounts  |
| 22                 |  |                    | and of highest quality  |

| Site: AEP Fostoria to Lima Rater(s): Beth Hollinder, Chris Davisson  | Date: 7/1/27   |
|--|--|
| The state of the s | wetland 1-AA   |
| Metric 1. Wetland Area (size).   |  |
|  |  |
| max 6 pts. subtotal Select one size class and assign score. >50 acres (>20.2ha) (6 pts)  |  |
| 25 to <50 acres (10.1 to <20.2ha) (5 pts)  |  |
| 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts)  |  |
| 0.3 to <3 acres (0.12 to <1.2ha) (2pts)  |  |
| 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts)   |  |
| A Metric 2. Upland buffers and surrounding land use  | ) <b>.</b>   |
| max 14 pts. subtotal 2a. Calculate average buffer width. Select only one and assign score. Do not double check.  |  |
| WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)   |  |
| MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (   | 1)   |
| VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)   |  |
| 2b. Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)  |  |
| . / I OW Old field (>10 years), shrub land, young second growth forest. (5)  | llow field (3)   |
| MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fa   | llow field. (5)  |
| 14 72 Metric 3. Hydrology.   |  |
| max 30 pts subtotal 3a Sources of Water. Score all that apply.  3b. Connectivity. Score at   | II that apply.   |
| High pH groundwater (5)  | lain (1)   |
| Other groundwater (3)  Precipitation (1)  Between stream Part of wetland   | n/lake and other human use (1)<br>/upland (e.g. forest), complex (1) |
| Seasonal/Intermittent surface water (3) Part of riparian   | or upland corridor (1)   |
| Perennial surface water (lake or stream) (5)  3d. Duration inundation/st  Semi- to perma   | aturation. Score one or dbl check.<br>nently inundated/saturated (4) |
| >0.7 (27.6in) (3) Regularly inund  | ated/saturated (3)   |
| 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inun (15.7in) (1) Seasonally saturations (15.7in) (1)  | rated in upper 30cm (12in) (1)                                       |
| 3e. Modifications to natural hydrologic regime. Score one or double check and average.   |  |
| None or none apparent (12) Check all disturbances observed  Recovered (7) ditch point source (no   | onstormwater)  |
| Recovering (3) tile  |  |
| Recent or no recovery (1) dike road bed/RR tra   | ck   |
| weir   dreaging   stormwater input   other   |  |
| Metric 4. Habitat Alteration and Development.  |  |
| 8 31 Wetric 4. Habitat Alteration and Development.   |  |
| max 20 pts subtotal 4a. Substrate disturbance. Score one or double check and average.  |  |
| None or none apparent (4) Recovered (3)  |  |
| Recovering (2)   |  |
| Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  |  |
| Excellent (7)  |  |
| Very good (6)  |  |
| Good (5) Moderately good (4)   |  |
| Fair (3)   |  |
| Poor to fair (2) Poor (1)  |  |
| 4c. Habitat alteration. Score one or double check and average.   |  |
| None or none apparent (9) Check all disturbances observed Recovered (6) mowing shrub/sapling re  | moval  |
| Recovering (3) grazing herbaceous/aqu  | atic bed removal   |
| Recent or no recovery (1) clearcutting sedimentation selective cutting   |  |
| □ woody debris removal □ farming   |  |
| toxic pollutantsnutrient enrichm   | ent  |
| subtotal this page  last revised 1 February 2001 jjm   |  |
| idat icaland i i carani kao i lim  |  |

| Site: AEP For       | Storia to Lima  | Rater(s): Beth H  | ollinder, Cluis Davisson   | Date: 7/1/2022   |
|---------------------|---|---|--|--|
| - A                 |   |   | ,  | wetland 1-AA   |
| 31                  |   |   |  |  |
| subtotal first pa   | Metric 5. Special   | Wetlands.   |  |  |
| max 10 pts subtotal | Check all that apply and score as  Bog (10) Fen (10) Old growth forest (10) Mature forested wetland Lake Erie coastal/tributa | d (5)<br>ary wetland-unrestricted hyd   | drology (10)   |  |
|                     | Lake Plain Sand Prairie Relict Wet Prairies (10) Known occurrence state Significant migratory so Category 1 Wetland. S        | e/federal threatened or end<br>ingbird/water fowl habitat or<br>ee Question 1 Qualitative F | angered species (10)<br>usage (10)<br>Rating (-10)   |  |
| -1 30               |   |   | erspersion, microt   | opography.   |
| max 20 pts aubtotal | 6a. Wetland Vegetation Commur<br>Score all present using 0 to 3 sca   | vegetation  | Community Cover Scale  |  |
|                     | Aquatic bed  Emergent Shrub   | 0<br>1  | Absent or comprises <0.1ha (0.2  Present and either comprises sn vegetation and is of moderate significant part but is of low qu   | nall part of wetland's<br>quality, or comprises a  |
|                     | Nudflats Open water   | 2   | Present and either comprises sig<br>vegetation and is of moderate<br>part and is of high quality   | gnificant part of wetland's  |
|                     | Other_<br>6b. horizontal (plan view) Intersp  | ersion.   | Present and comprises significant vegetation and is of high quality  | A second control of the control of t |
|                     | Select only one.  |   |  |  |
|                     | High (5)  Moderately high(4)  Moderate (3)  | Narrative D<br>low  | Low spp diversity and/or predom disturbance tolerant native spe  |  |
|                     | Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. to Table 1 ORAM long form for list                       |   | Native spp are dominant comportant and a special special spp and special speci | nent of the vegetation,<br>urbance tolerant native spp<br>ies diversity moderate to<br>w/o presence of rare  |
|                     | or deduct points for coverage  Extensive >75% cover  Moderate 25-75% cover  Sparse 5-25% cover (-                             | high<br>(-5)<br>er (-3)   | A predominance of native specie<br>and/or disturbance tolerant na<br>absent, and high spp diversity<br>the presence of rare, threatence  | es, with nonnative spp<br>tive spp absent or virtually<br>and often, but not always,   |
|                     | Nearly absent <5% co  |   |  |  |
|                     | Absent (1)  |   | d Open Water Class Quality   |  |
|                     | 6d. Microtopography.  Score all present using 0 to 3 sca  | 0<br>ale. 1   | Absent <0.1ha (0.247 acres)<br>Low 0.1 to <1ha (0.247 to 2.47 a  | neroe)   |
|                     | Vegetated hummucks/   |   | Moderate 1 to <4ha (2.47 to 9.8  |  |
|                     | Coarse woody debris > O Standing dead >25cm   | >15cm (6in) 3   | High 4ha (9.88 acres) or more  | o doles)   |
|                     | O Amphibian breeding po   |   | graphy Cover Scale   |  |
|                     |   | 0   | Absent   |  |
|                     |   | 1   | Present very small amounts or it of marginal quality   |  |
|                     |   | 2   | Present in moderate amounts, be<br>quality or in small amounts of  | out not of highest<br>highest quality  |
|                     |   | 3   | Present in moderate or greater   | amounts  |

| Site: AEP FO         | Storia to Lima  | Rater(s): Beth Hollinden,   | Chris Davisson   Date: 7/1  | 122          |
|----------------------|---|---|---|--------------|
|                      |   |   | wetland   | 1-AB         |
| 2 2                  | Metric 1. Wetland A   | rea (size).   |   |              |
| 2 2                  |   | ,   |   |              |
| max 6 pts. subtotal  | Select one size class and assign sco                          |   |   |              |
|                      | >50 acres (>20.2ha) (6 pts<br>25 to <50 acres (10.1 to <      |   |   |              |
|                      | 10 to <25 acres (4 to <10.                                    |   |   |              |
|                      | 3 to <10 acres (1.2 to <4h                                    |   |   |              |
|                      | 0.3 to <3 acres (0.12 to <1                                   |   |   |              |
|                      | <0.1 acres (0.04ha) (0 pts                                    |   |   |              |
| 8 10                 | Metric 2. Upland bu   | uffers and surround   | ing land use.   |              |
| max 14 pts subtotal  | 2a. Calculate average buffer width.                           | Select only one and assign score.   | Do not double check.  |              |
|                      |   | Om (164ft) or more around wetland pe<br>e 25m to <50m (82 to <164ft) around                       |   |              |
|                      |   | ge 10m to <25m (32ft to <82ft) around   |   |              |
|                      |   | average <10m (<32ft) around wetlar  |   |              |
|                      |   | <ul> <li>Select one or double check and a<br/>or older forest, prairie, savannah, wild</li> </ul> |   |              |
|                      | LOW. Old field (>10 years                                     | s), shrub land, young second growth   | forest. (5)   |              |
|                      |   | esidential, fenced pasture, park, cons<br>open pasture, row cropping, mining, c                   |   |              |
| 25 25                | Metric 3. Hydrolog  |   | onstruction. (1)  |              |
| 20 30                |   |   |   |              |
| max 30 pts. subtotal | 3a. Sources of Water. Score all tha                           | t apply. 3b.  | Connectivity. Score all that apply.   |              |
|                      | High pH groundwater (5) Other groundwater (3)                 |   | 100 year floodplain (1)  Between stream/lake and other hur                      | man use (1)  |
|                      | Precipitation (1)   |   | Part of wetland/upland (e.g. forest),   | complex (1)  |
|                      | Seasonal/Intermittent surf                                    |   | Part of riparian or upland corridor (*Duration inundation/saturation. Score one |              |
|                      | 3c. Maximum water depth. Select                               |   | Semi- to permanently inundated/sa   |              |
|                      | >0.7 (27.6in) (3)   | . (2)   | Regularly inundated/saturated (3)   |              |
|                      | 0.4 to 0.7m (15.7 to 27.6iii<br><0.4m (<15.7in) (1)           | 1) (2)  | Seasonally inundated (2) Seasonally saturated in upper 30cm                     | n (12in) (1) |
|                      |   | gic regime. Score one or double ched  | ck and average.   | 7            |
|                      | None or none apparent (1                                      |   | point source (nonstormwater)  | 1            |
|                      | Recovered (7) Recovering (3)                                  | ditch   | filling/grading   |              |
|                      | Recent or no recovery (1)                                     | dike  | road bed/RR track   |              |
|                      |   | stormwater input  | dredging other  |              |
|                      | Bactric 4 Hobitot A   | Itaration and Davale  | nmont   | ᆁ            |
| 9 30                 | Wetric 4. Habitat A   | Iteration and Develo  | philent.  |              |
| max 20 pts. subtotal | 4a. <u>Subs</u> trate disturbance. Score of                   | ne or double check and average.   |   |              |
|                      | None or none apparent (4                                      | )   |   |              |
|                      | Recovered (3) Recovering (2)                                  |   |   |              |
|                      | Recent or no recovery (1)  4b. Habitat development. Select or | ly and and assign agers   |   |              |
|                      | Excellent (7)   | ny one and assign score.  |   |              |
|                      | Very good (6)   |   |   |              |
|                      | Good (5)  Moderately good (4)                                 |   |   |              |
|                      | Fair (3)  |   |   |              |
|                      | Poor to fair (2)  |   |   |              |
|                      | 4c. Habitat alteration. Score one of                          | double check and average.   |   | 2            |
|                      | None or none apparent (9                                      |   |   |              |
|                      | Recovered (6) Recovering (3)                                  | mowing grazing  | shrub/sapling removal herbaceous/aquatic bed removal                            |              |
|                      | Recent or no recovery (1)                                     |   | sedimentation   |              |
| 201                  |   | selective cutting   | dredging  |              |
| 51                   |   | woody debris removal toxic pollutants   | farming nutrient enrichment   |              |
| subtotal this        | page  |   |   |              |
| last revised 1 Febru | ary 2001 iim  |   |   |              |

| Site: AEP Fostoria to Lima  | Rater(s): Beth He  | ollinden, Chris Dawisson   | Date: 7/1/2022  |
|---|--|--|---|
|   |  | ,  | wetland 1-AE  |
| 39<br>subtotal first page   |  |  |   |
| O 39 Metric 5. Special  | Wetlands.  |  |   |
| Lake Erie coastal/tribut. Lake Plain Sand Prairie Relict Wet Prairies (10) Known occurrence stat Significant migratory so Category 1 Wetland. S | d (5) ary wetland-unrestricted hydro ary wetland-restricted hydro as (Oak Openings) (10) e/federal threatened or enda angbird/water fowl habitat or see Question 1 Qualitative R | logy (5) Ingered species (10) usage (10) ating (-10)               |   |
| _1 38 Metric 6. Plant co  |  | erspersion, microt   | opography.  |
| max 20 pts. subtotal 6a. Wetland Vegetation Commun  |  | Community Cover Scale  | 1474 perce) contiguous area   |
| Score all present using 0 to 3 sca  | lle. <u>0</u>  | Absent or comprises <0.1ha (0.2<br>Present and either comprises sn | nall part of wetland's  |
| Aquatic bed  Emergent   | 1  | vegetation and is of moderate                                      | quality, or comprises a   |
| Shrub   |  | significant part but is of low qu                                  | ality   |
| Forest  | 2  | Present and either comprises sig                                   | gnificant part of wetland's   |
| Mudflats  |  | vegetation and is of moderate                                      | quality or comprises a small  |
| Open water  |  | part and is of high quality  |   |
| Other   | 3  | Present and comprises significa                                    |   |
| 6b. horizontal (plan view) Intersp  | ersion.  | vegetation and is of high qualit                                   | ty  |
| Select only one.  | Norrative D  | escription of Vegetation Quality                                   |   |
| High (5) Moderately high(4)   | low  | Low spp diversity and/or predom                                    | ninance of nonnative or   |
| Moderate (3)  | 1011   | disturbance tolerant native spe                                    |   |
| Moderately low (2)  | mod  | Native spp are dominant compo                                      |   |
| Low (1)   |  | although nonnative and/or dist                                     |   |
| None (0)  |  | can also be present, and spec                                      | ies diversity moderate to   |
| <ol><li>Coverage of invasive plants.</li></ol>  |  | moderately high, but generally                                     |   |
| to Table 1 ORAM long form for lis   |  | threatened or endangered spp                                       |   |
| or deduct points for coverage   | high   | A predominance of native specie                                    | all and the state of the state |
| Extensive >75% cover  |  | and/or disturbance tolerant na                                     |   |
| Moderate 25-75% cover   |  | absent, and high spp diversity<br>the presence of rare, threaten   |   |
| Sparse 5-25% cover (-   |  | the presence of fare, threaten                                     | ed, or endangered app   |
| Nearly absent <5% cov<br>Absent (1)   |  | Open Water Class Quality   |   |
| 6d. Microtopography.  | 0  | Absent <0.1ha (0.247 acres)  |   |
| Score all present using 0 to 3 sca  | ale. 1   | Low 0.1 to <1ha (0.247 to 2.47 a                                   | acres)  |
| O Vegetated hummucks/t  | tussucks 2   | Moderate 1 to <4ha (2.47 to 9.8                                    | 38 acres)   |
| O Coarse woody debris >   |  | High 4ha (9.88 acres) or more                                      |   |
| O Standing dead >25cm   |  | - 100 A A 2 - 100 - 12 - 100 - 1                                   |   |
| Amphibian breeding po   |  | raphy Cover Scale  |   |
|   | 0  | Absent   |   |
|   | 1  | Present very small amounts or i                                    | t more common   |
|   |  | of marginal quality  | out not of highest  |
|   | 2  | Present in moderate amounts, to<br>quality or in small amounts of  |   |
|   | 3  | Present in moderate or greater                                     |   |
|   | 3  | and of highest quality   | amounts   |

| Metric 1. Wetland Area (size).  Select one size class and assign score.  Solo acres (920 2ha) (6 pis)  10 to <25 acres (10 < 10 than (6 pis)  10 to <25 acres (10 < 10 than (6 pis)  10 to 10 acres (10 to 10 acres (10 than (6 pis)  10 to 10 acres (10 than (6 pis)  1 | Site: AZP F          | ostoria to Lima  | Rater(s): Beth Hollinder, Chis Davis   | Date: 7/2/27          |
|--|----------------------|--|--|-----------------------|
| Select one size class and assign score.  |                      |  |  | wetland I - A         |
| 250 acres (2-20 2ha) (6 pts) 250 acres (1-20 2ha) (6 pts) 10 to -52 acres (4 to -10 1ha) (4 pts) 3 to -10 acres (1.2 to -12 ha) (2 pts) 0 1 to -53 acres (0.1 to -12 ha) (2 pts) 10 to -53 acres (0.1 to -12 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -10 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 1 to -0.3 acres (0.0 to -0.1 ha) (2 pts) 0 2 to -0.3 to -0 | 7 7                  | Metric 1. Wetland  | Area (size).   |                       |
| So acres (1-20 Zha) (6 pts)   25 to 50 acres (1-20 Zha) (5 pts)   10 to 425 acres (4 to 4-10). This (4 pts)   25 to 50 acres (1-40 Aha) (3 pts)   10 to 425 acres (4 to 4-4ha) (3 pts)   20 to 3 acres (4 to 4-4ha) (3 pts)   20 to 3 acres (4 to 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (3 pts)   20 to 4 acres (10 Zha 4-4ha) (2 pts)   20 to 4 acres (10 Zha 4-4ha) (   | max 6 pts. subtotal  | Select one size class and assign so  | core   |                       |
| 10 to <25 acres (4 to <10.1ha) (4 pts)   |                      | >50 acres (>20.2ha) (6 pt  | ts)  |                       |
| 3 to <10 acres (1/2 to <1/a> (2 to 12, bit) (2 pts)   0.3 to <3 acres (1/2 to <1, bit) (2 pts)   0.3 to <3 acres (1/2 to <1, bit) (2 pts)   0.3 to <3 acres (1/2 to <1, bit) (2 pts)   0.3 to <3 acres (1/2 to <1, bit) (2 pts)   0.3 to <1, bit) (3 pts)    |                      |  |  |                       |
| O. 1 to < 0.3 acres (0.04 to < 0.12 ha) (1 pt)   |                      | 3 to <10 acres (1.2 to <4)   | na) (3 pts)  |                       |
| Metric 2. Upland buffers and surrounding land use.    Calculate average buffer width. Select only one and assign score. Do not double check.   |                      |  |  |                       |
| ## Autorities ## |                      |  |  |                       |
| WIDE Buffers average 50m (154ft) or more around wetland perimeter (7)   McDIUM. Buffers average 25m to 550m (22 to 154ft) around wetland perimeter (4)   NARROW. Buffers average 10m to 425m (32ft to 452ft) around wetland perimeter (7)   VERY NARROW. Buffers average 10m to 425m (32ft to 452ft) around wetland perimeter (9)   VERY NARROW. Buffers average 10m to 425m (32ft to 452ft) around wetland perimeter (9)   VERY NARROW. Buffers average 10m (152ft to 452ft) around wetland perimeter (9)   VERY NARROW. Buffers average 10m (152ft to 452ft) around wetland perimeter (9)   VERY LOW. 20d drowth or older forest, praine, savannah, wildlife area, etc. (7)   V. LOW. Old field (10 years), shrub land, young second growth forest. (5)   MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)   HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)   Very perimeter (9)   Very pood (10 year floodplain (1)   Very pood (10 year floodplain (1   | 7 9                  | Metric 2. Upland b   | uffers and surrounding land u  | se.                   |
| MEDIUM, Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)   NARROW. Buffers average 10m (<23ft) around wetland perimeter (7)   VERY NARROW. Buffers average <10m (<23ft) around wetland perimeter (9)   VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)   VLOW. Old field (10 years), shrub land, young second growth forest. (7)   VLOW. Old field (10 years), shrub land, young second growth forest. (7)   VLOW. Old field (10 years), shrub land, young second growth forest. (3)   MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)   MICH Urban, industrial, open pasture, row cropping, mining, construction. (1)   MICH Urban, industrial, open pasture, row cropping, mining, construction. (1)   MICH Urban, industrial, open pasture, park, conservation tillage, new fallow field. (3)   MICH Urban, industrial, open pasture, park, conservation tillage, new fallow field. (3)   MICH Urban, industrial, open pasture, park, conservation tillage, new fallow field. (3)   MICH Urban, industrial, open pasture, park, conservation tillage, new fallow field. (3)   MICH Urban, industrial, open pasture, park, conservation tillage, new fallow field. (3)   MICH Urban, industrial, park,   | max 14 pts. subtotal | Za. Galdalate average bullet width.  |  | k.                    |
| NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)  VERY NARROW. Buffers average <10m (<23ft) around wetland perimeter (0)  2b. Intensity of surrounding land use. Select one or double check and average.  VERY LOW. Jod freid (>10 years), shrub land, young second growth forest. (5)  MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)  HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)  Metric 3. Hydrology.  3a. Sources of Water. Score all that apply.  High pH groundwater (3)  Other groundwater (3)  Perennial surface water (a)  Perennial surface water (a) (a)  Perennial surface water (a) (a)  Perennial surface water (a) (a)  Other groundwater (3)  None or none apparent (12)  Recovering (3)  Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Semi-lopermanenty invalvated in upper 30cm (12in) (1)  Seasonally saturated in upper 30cm (12in) (1)  Seasonally saturated in upper 30cm (12in) (1)  Seasonally saturated in upper 30cm (12in) (1)  Recovering (3)  Recent or no recovery (1)  Ab. Habitat development. Select only one and assign score.  Semi-lopermanenty invalvated (3)  Poor to flar (2)  Recovered (6)  Recovered (6)  Recovered (7)  Recovered (7)  Recovered (8)  Recovered (9)  Recovered (9)  Recovered (10)  R |                      |  |  | (4)                   |
| 2b. Intensity of surrounding land use. Select one or double check and average.  VERY LOW. Jod field (>10 years), shrub land, young second growth forest. (5)  MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)  HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)  Metric 3. Hydrology.  3a. Sources of Water. Score all that apply.  High pH groundwater (5)  Other groundwater (3)  Perceipitation (1)  Seasonal/Intermittent surface water (3)  Perennial surface water (ake or stream) (5)  3c. Maximum water depth. Select only one and assign score.  Por (72 /5 ini) (1)  3c. Maximum water depth. Select only one and assign score.  Por (72 /5 ini) (7)  And (71 /5 ini) (1)  3e. Modifications to natural hydrologic regime. Score one or double check and average.  Metric 4. Habitat Alteration and Development.  4a. Substrate disturbance. Score one or double check and average.  More or none apparent (12)  Recovering (2)  Recovering (3)  Recovering (2)  Recovering (3)  Recovered (6)  Recovered (6)  Recovered (7)  Very good (6)  Recovering (3)  Recovered (6)  Recovering (3)  Recovered (6)  Recovering (3)  Recovering (4)  Recovering (5)  Recovering (6)  Recovering (7)  Recovering (7)  Recovering (7)  Recovering  | -                    | NARROW. Buffers avera  | age 10m to <25m (32ft to <82ft) around wetland perimeter   |                       |
| VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)  LOW. Old field (-10) years, shortbull and, young second growth forest. (5)  MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)  HIGH. Urban, Iddistrial, open pasture, row cropping, mining, construction. (1)  Metric 3. Hydrology.  3a. Sources of Water. Score all that apply.  High Pl groundwater (5)  Other groundwater (5)  Percepitation (1)  Seasonally intermittent surface water (3)  Perrenial surface water (alke or stream) (5)  3c. Maximum water depth. Select only one and assign score.  3d. Od 10.7 m (15.7 to 27.6 in) (2)  4d. 40.7 m (15.7 in) (17)  Seasonally inundated/saturated (3)  Recovering (3)  Recovering (3)  Recovering (2)  Recovering (3)  Recovered (6)  Recovered (6)  Recovered (9)  Recovering (3)  R |                      | 2b. Intensity of surrounding land us   | s average <10m (<32ft) around wetland perimeter (0)  |                       |
| Moderate High. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)  HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)  Metric 3. Hydrology.  3a. Sources of Water. Score all that apply. High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface water (3) Perennial surface water (lake or stream) (5) 3d. Duration inundation/saturation. Score one or dbit check.  3c. Maximum water depth. Select only one and assign score.  >0.7 (27.6 fin) (3) 0.4 to 0.7 m (15.7 to 27.6 in) (2) 2.0.4 m (<15.7 in) (1)  3e. Modifications to natural hydrologic regime. Score one or double check and average.  None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.    Substate disturbance. Score one or double check and average.   None or none apparent (4) Recovering (2) Recent or no recovery (1)   Ab. Habitat development. Select only one and assign score.   Excellent (7)   Very good (5)   Cod (5)   Very good (6)   Cod (5)   Very good (6)   Cod (5)   Very good (6)   Recovering (3)   Recent or no recovery (1)   Ab. Habitat development. Select only one and assign score.   Excellent (7)   Popor (1)   Recovering (3)   Recent or no recovery (1)   Ab. Habitat development. Select only one and assign score.   Excellent (7)   Popor (1)   Recovering (3)   Recent or no recovery (1)   Ab. Habitat development. Select only one and assign score.   Excellent (7)   Popor (1)   Recovering (3)   Recent or no recovery (1)   Ab. Habitat alteration. Score one or double check and average.   None or none apparent (9)   Recovering (3)   Recent or no recovery (1)   Ab. Habitat development. Select only one and assign score.   Excellent (7)   Popor (1)   Recovering (3)   Recent or no recovery (1)   Ab. Habitat development. Select only one and assign score.   Excellent (7)   Popor (1)   Recovering (3)   Recent or no recovery (1)   Ab. Habitat development. Select only one and assign score.   Excel |                      | VERY LOW. 2nd growth   | or older forest, prairie, savannah, wildlife area, etc. (7)  |                       |
| Metric 3. Hydrology.  Metric 3. Sources of Water. Score all that apply.  High H groundwater (5) Other groundwater (3) Percepitation (1) Seasonal/Intermittent surface water (3) Perennial surface water (lake or stream) (5) 3c. Maximum water depth. Select only one and assign score.  3c. Maximum water depth. Select only one and assign score.  3c. Maximum water depth. Select only one and assign score.  3c. Maximum water depth. Select only one and assign score.  3d. Duration inundation/saturation. Score one or bit check.  3c. Maximum water depth. Select only one and assign score.  3d. Duration inundation/saturation. Score one or bit check.  3d. Seasonally inundated (3) Seasonally inundated (3) Seasonally inundated (4) Seasonally inundated (7) Seasonally inundated (8) Seasonally inundated (9) Seasonally inundated (7) |                      | LOW. Old field (>10 year   | rs), shrub land, young second growth forest. (5)   | w fallow field (3)    |
| max 30 pts subtons  3a. Sources of Water. Score all that apply.  High pH groundwater (5)  Other groundwater (1)  Perecipitation (1)  Seasonal/Intermittent surface water (3)  Perennial surface water (lake or stream) (5)  3c. Maximum water depth. Select only one and assign score.  3d. Out to 0.7m (15.7 to 27 6in) (2)  3e. Modifications to natural hydrologic regime. Score one or double check and average.  None or none apparent (12)  Recovering (3)  Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  None or none apparent (4)  Recovering (2)  Recovering (2)  Recovering (3)  Recovering (2)  Recovering (2)  Recovering (2)  Recovering (3)  Recovering (2)  Recovering (2)  Recovering (2)  Recovering (2)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (2)  Recovering (3)  Recovering (4)  Recovering |                      | HIGH. Urban, industrial,   | open pasture, row cropping, mining, construction. (1)  | vialiow field. (5)    |
| High pH groundwater (5) Other groundwater (3) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface water (3) Perennial surface water (3) Perennial surface water (3) Perennial surface water (3) Dou't not inundation/saturation. Score one or dol check.  3c. Maximum water depth. Select only one and assign score. Semi- to permanently inundated/saturated (4) Regularly inundated/saturated (3) Seasonally inundated/saturated (4) Recovered (7) Recovered (7) Recovered (7) Recovered (7) Recovered (8) Recontrol or no recovery (1)  4a. Substrate disturbance. Score one or double check and average. None or none apparent (4) Recovered (6) Recovered (7) Recovered (7) Recovered (8) Recovered (9) | 15 24                | Metric 3. Hydrolog   | y.   |                       |
| Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface water (3) Pernolation (2) Pernolation (3) Pernolation (4) Pernolation (5) Seasonal/Intermittent surface water (18ke or stream) (5) 3c. Maximum water depth. Select only one and assign score.  > 0.7 (27.6 in) (3) 0. 4 to 0.7 in (15.7 to 27.6 in) (2)  > 0.4 to 0.7 in (15.7 in) (1)  3e. Modifications to natural hydrologic regime. Score one or double check and average.  None or none apparent (12) Recovered (7) Recovering (3) Recovering (2) Recovering (2) Recovering (2) Recovering (2) Recovering (3) Recovering (2) Recovered (3) Recovering (2) Recovering (3) Recovering (2) Recovering (3) Recovering (2) Recovering (3) Recovering (2) Recovering (3) Recovering (3) Recovering (2) Recovering (3) Recovering (4) Regularious inundated/saturated (3) Recovering (4) Regularious inundation inun | max 30 pts. subtota  | ou. Cources of trater. Coole all the   | at apply. 3b. Connectivity. Score  | re all that apply.    |
| Percipitation (1) Seasonally Allorements surface water (3) Pernanial surface water (100 pernanial surfa |                      |  | <del></del>  |                       |
| Perennial surface water (lake or stream) (5)   3d.   Duration inundation/saturation. Score one or dbl check.   3c.   Maximum water depth. Select only one and assign score.   Semi- to permanently inundated/saturated (4)   >0.7 (27.6in) (3)   0.4 to 0.7m (15.7 to 27.6in) (2)   Seasonally inundated/saturated (3)   Seasonally inundated/saturated (3)   Seasonally inundated (2)   Seasonally inundated/saturated (3)   Seasonally inundated (2)   Seasonally   |                      | ✓ Precipitation (1)  | Part of wetla  |                       |
| Maximum water depth. Select only one and assign score.    Semi- to permanently inundated/saturated (4)   |                      |  |  |                       |
| None or none apparent (4)   Recovering (2)   Receil to rin or ecovery (1)   Recovering (3)   Receil to rin or ecovery (4)   Recovering (4)   Recovering (5)   Receil to rin or ecov   |                      |  |  |                       |
| 3e. Modifications to natural hydrologic regime. Score one or double check and average.  None or none apparent (12) Recovering (3) Recent or no recovery (1)  Metric 4. Habitat Alteration and Development.  4a. Substrate disturbance. Score one or double check and average.  None or none apparent (4) Recovering (3) Recevering (3) Recovering (2) Recovering (2) Recevering (2) Recevering (2) Recevering (3) Recovering (2) Recevering (2) Recevering (2) Recevering (3) Recovering (2) Recevering (2) Recevering (3) Recovering (4) Recovering (5) Recovering (6) Recovering (7) Recovering (8) Recovering (8) Recovering (9) Recoverin |                      |  | Regularly in   | undated/saturated (3) |
| Modifications to natural hydrologic regime. Score one or double check and average.   |                      | <0.4m (<15.7in) (1)  | Seasonally   |                       |
| Recovering (3) Recovering (4) Recovering (2) Recovering (3) Recovering (2) Recovering (2) Recovering (2) Recovering (2) Recovering (3) Recovering (2) Recovering (3) Recovering (2) Recovering (3) Recovering (4) Recovering (5) Recovering (6) Recovering (7) Recovering (7) Recovering (8) Recovering (9) Recovering (9) Recovering (9) Recovering (1) Recove |                      |  |  |                       |
| Recovering (3) Recent or no recovery (1)    Itile  |                      |  |  | (nonstarmurator)      |
| Weir   Stormwater input   Stor   |                      | Recovering (3)   | tilefilling/gradin   | g                     |
| Metric 4. Habitat Alteration and Development.  4a. Substrate disturbance. Score one or double check and average.  None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovered (6) Recovering (3) Recent or no recovery (1) Recent or no recovery (1)  Action in the process of t |                      | Recent or no recovery (1)  |  | ₹ track               |
| max 20 pts subtotal  4a. Substrate disturbance. Score one or double check and average.  None or none apparent (4)  Recovered (3)  Recovering (2)  Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7)  Very good (6)  Good (5)  Moderately good (4)  Fair (3)  Poor to fair (2)  Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9)  Recovered (6)  Recovered (6)  Recovering (3)  Recent or no recovery (1)  Recent or no recovery (1)  Recent or no recovery (1)  Recovered (6)  Recovered ( |                      |  |  |                       |
| None or none apparent (4)  Recovered (3)  Recovering (2)  Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7)  Very good (6)  Good (5)  Moderately good (4)  Fair (3)  Poor to fair (2)  Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9)  Recovered (6)  Recovered (6)  Recovering (3)  Recent or no recovery (1)  Recovering (3)  Recovering (4)  Recovering (4)  Recovering (5)  Recovering (6)  Recovering (7)  Recovering (8)  Recovering (9)  Rec | 10 34                | Metric 4. Habitat A  | Iteration and Development.   |                       |
| None or none apparent (4) Recovering (2) Recovering (2) Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  Check all disturbances observed mowing grazing herbaceous/aquatic bed removal selective cutting woody debris removal toxic pollutants ltxic pollutants   | max 20 pts subtotal  | 4a. Substrate disturbance. Score of  | one or double check and average  |                       |
| Record or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7)  Very good (6)  Good (5)  Moderately good (4)  Fair (3)  Poor to fair (2)  Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9)  Recovered (6)  Recovering (3)  Recent or no recovery (1)  Check all disturbances observed  mowing  grazing  herbaceous/aquatic bed removal selective cutting selective cutting selective cutting woody debris removal toxic pollutants  nutrient enrichment   |                      | None or none apparent (4   |  |                       |
| Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7)  Very good (6)  Good (5)  Moderately good (4)  Fair (3)  Poor to fair (2)  Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9)  Recovered (6)  Recovered (6)  Recovering (3)  Recent or no recovery (1)  |                      |  |  |                       |
| Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  Check all disturbances observed mowing grazing herbaceous/aquatic bed removal selective cutting woody debris removal toxic pollutants nutrient enrichment   |                      | Recent or no recovery (1)  |  |                       |
| Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  Check all disturbances observed mowing grazing herbaceous/aquatic bed removal selective cutting selective cutting woody debris removal toxic pollutants nutrient enrichment   |                      |  | nly one and assign score.  |                       |
| Moderately good (4) Fair (3) Poor to fair (2) Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  Recent or no recovery (1)  Shrub/sapling removal herbaceous/aquatic bed removal sedimentation dredging farming woody debris removal toxic pollutants   |                      | Very good (6)  |  |                       |
| Fair (3) Poor to fair (2) Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  Recent or no recovery (1)  Recovering (3) Recent or no recovery (1)  |                      |  |  |                       |
| Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  Recent or no recovery (1)  Recovering (3) Recovering (4) Recove |                      | Fair (3)   |  |                       |
| 4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  Recent or no recovery (1)  Recent or no recovery (1)  None or none apparent (9) Recovering (3) Recovering (3) Recent or no recovery (1)  Recovering (3) Recent or no recovery (1)  Recovering (3) Recovering (4) Recovering  |                      |  |  |                       |
| Recovered (6) Recovering (3) Recent or no recovery (1)  Recent or no recovery (1)  Recovering (3) Recent or no recovery (1)  Recovering (3) Recent or no recovery (1)  Recovering (3) Recovering (3) Recovering (3) Recovering (3) Recovering (3) Recovering (4) Recovering (3) Recovering (4) Recovering (4) Recovering (5) Recovering (5) Recovering (6) Recovering (6) Recovering (7) Reco |                      |  | double check and average.  |                       |
| Recovering (3) Recent or no recovery (1)  Selective cutting woody debris removal toxic pollutants  Thick saping removal herbaceous/aquatic bed removal sedimentation dredging farming nutrient enrichment   |                      |  | Check all disturbances observed  |                       |
| Recent or no recovery (1)  Clearcutting Selective cutting Woody debris removal toxic pollutants  Recent or no recovery (1)  Clearcutting Sedimentation dredging farming nutrient enrichment  |                      | The second secon |  | g removal             |
| selective cutting dredging woody debris removal farming toxic pollutants   |                      |  | The state of the s |                       |
| toxic pollutants nutrient enrichment   | 011                  |  | selective cutting dredging   |                       |
| subtotal this page   | 39                   |  |  | chment                |
| last revised 1 February 2001 iim   |                      |  |  | Gillion               |

| Site: AS P        | Fostoria to Lima Ra  | ter(s): Pott t       | Idlinder, Chris Davisson   | Date: 7/2/22                   |
|-------------------|--|----------------------|--|--------------------------------|
| 0.1.0.            | TO TAKE TO LIVE  | or (o) solver        | current Color  | wetland 1-AC                   |
| 34                |  |                      |  |                                |
| subtotal fire     | st page  |                      |  |                                |
|                   | T  | ande                 |  |                                |
| 0 34              | Metric 5. Special Weti                                     | anus.                |  |                                |
| max 10 pts. subto | tal Check all that apply and score as indicated            | d.                   |  |                                |
|                   | Bog (10)   |                      |  |                                |
|                   | Fen (10)   |                      |  |                                |
|                   | Old growth forest (10)  Mature forested wetland (5)        |                      |  |                                |
|                   | Lake Erie coastal/tributary wetla                          | nd-unrestricted hy   | drology (10)   |                                |
|                   | Lake Erie coastal/tributary wetla                          |                      |  |                                |
|                   | Lake Plain Sand Prairies (Oak C                            | Openings) (10)       |  |                                |
|                   | Relict Wet Prairies (10) Known occurrence state/federal    | threatened or end    | angered species (10)   |                                |
|                   | Significant migratory songbird/w                           |                      |  |                                |
|                   | Category 1 Wetland. See Ques                               | tion 1 Qualitative F | Rating (-10)   |                                |
| 0 21              | Metric 6. Plant commu                                      | unities, int         | erspersion, microt   | opography.                     |
| 0 30              |  |                      |  |                                |
| max 20 pts. subto | ou. Wetland Vegetation Communities,                        |                      | Community Cover Scale  | 474 >tienene eree              |
|                   | Score all present using 0 to 3 scale.  Aquatic bed         | 0                    | Absent or comprises <0.1ha (0.2<br>Present and either comprises sm |                                |
|                   | 2 Emergent   | 1. 1.                | vegetation and is of moderate                                      |                                |
|                   | Shrub  |                      | significant part but is of low qua                                 |                                |
|                   | Forest   | 2                    | Present and either comprises sig                                   |                                |
|                   | Mudflats Open water  |                      | vegetation and is of moderate<br>part and is of high quality       | quality or comprises a small   |
|                   | Other  | 3                    | Present and comprises significar                                   | nt part, or more, of wetland's |
|                   | 6b. horizontal (plan view) Interspersion.                  |                      | vegetation and is of high qualit                                   |                                |
|                   | Select only one.   |                      |  |                                |
|                   | High (5) Moderately high(4)                                | Narrative D          | Low spp diversity and/or predom                                    | inance of nonnative or         |
|                   | Moderate (3)   | IOW                  | disturbance tolerant native spe                                    |                                |
|                   | Moderately low (2)   | mod                  | Native spp are dominant compor                                     |                                |
|                   | Low (1)  |                      | although nonnative and/or distr                                    |                                |
|                   | None (0)  6c. Coverage of invasive plants. Refer           |                      | can also be present, and speci<br>moderately high, but generally   |                                |
|                   | to Table 1 ORAM long form for list. Add                    |                      | threatened or endangered spp                                       | w/o presence of rare           |
|                   | or deduct points for coverage                              | high                 | A predominance of native specie                                    |                                |
|                   | Extensive >75% cover (-5)                                  |                      | and/or disturbance tolerant nat                                    |                                |
|                   | Moderate 25-75% cover (-3)<br>Sparse 5-25% cover (-1)      |                      | absent, and high spp diversity the presence of rare, threatene     | and often, but not always,     |
|                   | Nearly absent <5% cover (0)                                | -                    | the presence of rare, threatene                                    | d, or endangered spp           |
|                   | Absent (1)   | Mudflat and          | Open Water Class Quality   |                                |
|                   | 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 a                                   |                                |
|                   | Vegetated hummucks/tussucks Coarse woody debris >15cm (6ir |                      | Moderate 1 to <4ha (2.47 to 9.8)<br>High 4ha (9.88 acres) or more  | B acres)                       |
|                   | Standing dead >25cm (10in) dbh                             |                      | I wan and (0.00 doles) of mole                                     |                                |
|                   | Amphibian breeding pools                                   |                      | raphy Cover Scale  |                                |
|                   |  | 0                    | Absent   |                                |
|                   |  | 1                    | Present very small amounts or if                                   | more common                    |
|                   |  | 2                    | of marginal quality  Present in moderate amounts, but              | it not of highest              |
|                   |  | -                    | quality or in small amounts of h                                   |                                |
|                   |  | 3                    | Present in moderate or greater a                                   |                                |
|                   |  |                      | and of highest quality   |                                |

| Site: AZP Fostoria to Lima                           | Rater(s): Both Holling   | 1, Chis Davisson Date: 7/2/2022  |
|--|--|--|
| Motric 1 Wetlen                                      |  | wetland 1-AD   |
| 1 1 1 wetter 1. Wettan                               | u Alea (Size).   |  |
| max 6 pts. subtotal Select one size class and assign |  |  |
| >50 acres (>20,2ha)<br>25 to <50 acres (10.          |  |  |
| 10 to <25 acres (4 to                                |  |  |
| 3 to <10 acres (1.2 t                                |  |  |
| √ 0.1 to <0.3 acres (0.)                             | 04 to <0.12ha) (1 pt)  |  |
| <0.1 acres (0.04ha)                                  |  |  |
|  | buffers and surround   | ding land use.   |
|  | ridth. Select only one and assign score.   |  |
|  | ige 50m (164ft) or more around wetland p<br>verage 25m to <50m (82 to <164ft) aroun  |  |
|  | everage 10m to <25m (32ft to <82ft) around wetter                                    |  |
|  | uffers average <10m (<32ft) around wetland use. Select one or double check and       |  |
|  | owth or older forest, prairie, savannah, wi  |  |
|  | years), shrub land, young second growth<br>H. Residential, fenced pasture, park, con |  |
| HIGH. Urban, indus                                   | rial, open pasture, row cropping, mining,  |  |
| 14 17 Metric 3. Hydrol                               | ogy.   |  |
| max 30 pts. subtotal 3a. Sources of Water. Score     |  | c. Connectivity. Score all that apply.   |
| High pH groundwater (                                |  | 100 year floodplain (1)  Between stream/lake and other human use (1)                             |
| Precipitation (1)                                    |  | Part of wetland/upland (e.g. forest), complex (1)  |
| Seasonal/Intermitter                                 | T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | Part of riparian or upland corridor (1)  Duration inundation/saturation. Score one or dbl check. |
| 3c. Maximum water depth. Se                          | elect only one and assign score.   | Semi- to permanently inundated/saturated (4)   |
| >0.7 (27.6in) (3)<br>0.4 to 0.7m (15.7 to            | 27.6in) (2)  | Regularly inundated/saturated (3) Seasonally inundated (2)                                       |
| <0.4m (<15.7in) (1)                                  |  | Seasonally saturated in upper 30cm (12in) (1)  |
|  | drologic regime. Score one or double chent (12) Check all disturbances observe       |  |
| None or none appar<br>Recovered (7)                  | ditch  | point source (nonstormwater)   |
| Recovering (3) Recent or no recove                   | ry (1) tile  | filling/grading  |
| Recent of no recove                                  | weir   | road bed/RR track dredging   |
|  | stormwater input   | other  |
| 10 27 Metric 4. Habita                               | t Alteration and Devel   | opment.  |
| max 20 pts. subtotal 4a. Substrate disturbance. So   | ore one or double check and average.   |  |
| None or none appar                                   | ent (4)  |  |
| Recovering (2)                                       |  |  |
| Recent or no recove 4b. Habitat development. Sel     |  |  |
| Excellent (7)  | ect only one and assign score.   |  |
| Very good (6)  |  |  |
| Good (5)  Moderately good (4)                        |  |  |
| Fair (3)   |  |  |
| Poor to fair (2)<br>Poor (1)                         |  |  |
| 4c. Habitat alteration. Score of                     | ne or double check and average.  |  |
| None or none appar<br>Recovered (6)                  | ent (9) Check all disturbances observe   |  |
| Recovering (3)                                       | grazing  | shrub/sapling removal herbaceous/aquatic bed removal   |
| Recent or no recove                                  |  | sedimentation  |
| 177  | selective cutting woody debris removal   | dredging<br>farming  |
| LT   | toxic pollutants   | nutrient enrichment  |
| subtotal this page                                   |  |  |

| Site: AEP Fostoria to Lima Rater   | (s): Beth  | Hollinder, Chris Davison Date: 7/2/2023  |
|--|--|--|
| 27   |  | wetland 1- A   |
| O 27 Metric 5. Special Wetlar  | nds.   |  |
| Check all that apply and score as indicated.  Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland- Lake Erie coastal/tributary wetland- Lake Plain Sand Prairies (Oak Oper Relict Wet Prairies (10) Known occurrence state/federal thre | restricted hydro<br>nings) (10)<br>eatened or end<br>r fowl habitat or | angered species (10) r usage (10)  |
| Category 1 Wetland. See Question  Metric 6. Plant commun   |  | Rating (-10)<br>terspersion, microtopography.  |
| max 20 pts. subtotal 6a. Wetland Vegetation Communities.   | Vocatation   | Community Cover Seels  |
| Score all present using 0 to 3 scale.  | 0  | Community Cover Scale Absent or comprises <0.1ha (0.2471 acres) contiguous area  |
| Aquatic bed   Emergent   Shrub   | 1  | Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality  |
| Forest Mudflats Open water   | 2  | Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality  |
| Other6b. horizontal (plan view) Interspersion. Select only one.  | 3  | Present and comprises significant part, or more, of wetland's vegetation and is of high quality  |
| High (5)   | Narrative D  | escription of Vegetation Quality   |
| Moderately high(4) Moderate (3)  | low  | Low spp diversity and/or predominance of nonnative or<br>disturbance tolerant native species   |
| Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add   | mod  | Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp |
| or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  | high   | A predominance of native species, with nonnative spp<br>and/or disturbance tolerant native spp absent or virtually<br>absent, and high spp diversity and often, but not always,<br>the presence of rare, threatened, or endangered spp                 |
| Nearly absent <5% cover (0)  |  |  |
| Absent (1)   |  | d Open Water Class Quality   |
| 6d. Microtopography.   | 1  | Absent <0.1ha (0.247 acres)  |
| Score all present using 0 to 3 scale.  6 Vegetated hummucks/tussucks   | 2  | Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)   |
| Coarse woody debris >15cm (6in)  | 3  | High 4ha (9.88 acres) or more  |
| O Standing dead >25cm (10in) dbh Amphibian breeding pools  |  | graphy Cover Scale   |
|  | 0  | Absent   |
|  | 1  | Present very small amounts or if more common of marginal quality   |
|  | 2  | Present in moderate amounts, but not of highest quality or in small amounts of highest quality   |
|  | 3  | Present in moderate or greater amounts<br>and of highest quality   |

| Site: ASP Fastoria to Lima R   | ater(s): Beth 16        | Minden, chis Davisson  | Date: 7/2/2022   |
|--|-------------------------|--|--|
| 36   |                         | ,  | Wetland 1-AE   |
| subtotal first page  |                         |  |  |
| O 36 Metric 5. Special We  | tlands.                 |  |  |
| max 10 pts subtotal Check all that apply and score as indica                                     | ated.                   |  |  |
| Bog (10)   |                         |  |  |
| Fen (10)   |                         |  |  |
| Old growth forest (10) Mature forested wetland (5)   |                         |  |  |
| Lake Erie coastal/tributary we   | etland-unrestricted hyd | trology (10)   |  |
| Lake Erie coastal/tributary we   |                         |  |  |
| Lake Plain Sand Prairies (Oa   | k Openings) (10)        |  |  |
| Relict Wet Prairies (10)   |                         |  |  |
| Known occurrence state/fede Significant migratory songbir  |                         |  |  |
| Category 1 Wetland. See Qu   |                         |  |  |
| _1 35 Metric 6. Plant comr   |                         |  | onography  |
| -1 35   wette o. Flant com   | numnes, mi              | erspersion, iniciou  | opograpity.  |
| max 20 pts. subtotal 6a. Wetland Vegetation Communities.   | Vegetation              | Community Cover Scale  |  |
| Score all present using 0 to 3 scale.  | 0                       | Absent or comprises <0.1ha (0.3                                  | 2471 acres) contiguous area  |
| Aquatic bed  | 1                       | Present and either comprises sr                                  | mall part of wetland's   |
| Emergent   |                         | vegetation and is of moderate                                    |  |
| Shrub  |                         | significant part but is of low qu                                |  |
|  | 2                       | Present and either comprises si<br>vegetation and is of moderate |  |
| Open water   |                         | part and is of high quality                                      | quality of comprises a small   |
| Other  | 3                       | Present and comprises significa                                  | nt part, or more, of wetland's   |
| 6b. horizontal (plan view) Interspersion   | n                       | vegetation and is of high quali                                  | ty   |
| Select only one.   | Nametica D              |  |  |
| High (5) Moderately high(4)  | low                     | Low spp diversity and/or predon                                  | ninance of nonnative or  |
| Moderate (3)   | 1044                    | disturbance tolerant native sp                                   |  |
| Moderately low (2)   | mod                     | Native spp are dominant compo                                    |  |
| Low (1)  |                         | although nonnative and/or dis                                    | Carlo Automotive Control of the Cont |
| None (0)   |                         | can also be present, and spec                                    |  |
| <ol> <li>Coverage of invasive plants. Refe<br/>to Table 1 ORAM long form for list. Ad</li> </ol> |                         | moderately high, but generally<br>threatened or endangered spi   |  |
| or deduct points for coverage  | high                    | A predominance of native speci                                   |  |
| Extensive >75% cover (-5)  |                         | and/or disturbance tolerant na                                   |  |
| Moderate 25-75% cover (-3)   |                         | absent, and high spp diversity                                   |  |
| Sparse 5-25% cover (-1)  |                         | the presence of rare, threaten                                   | ed, or endangered spp  |
| Nearly absent <5% cover (0) Absent (1)   |                         | d Open Water Class Quality                                       |  |
| 6d. Microtopography.   | 0                       | Absent <0.1ha (0.247 acres)                                      |  |
| Score all present using 0 to 3 scale.  | 1                       | Low 0.1 to <1ha (0.247 to 2.47                                   | acres)   |
| Vegetated hummucks/tussus  |                         | Moderate 1 to <4ha (2.47 to 9.                                   | 88 acres)  |
| ⊘ Coarse woody debris >15cm  |                         | High 4ha (9.88 acres) or more                                    |  |
| Standing dead >25cm (10in)  Amphibian breeding pools   |                         | graphy Cover Scale   |  |
| Amphibian breeding pools   | 0                       | Absent   |  |
|  | 1                       | Present very small amounts or                                    | if more common   |
|  | <u></u>                 | of marginal quality  |  |
|  | 2                       | Present in moderate amounts,                                     | but not of highest   |
|  |                         | quality or in small amounts of                                   |  |
|  | 3                       | Present in moderate or greater                                   | amounts  |
|  |                         | and of highest quality   |  |

| Site: ARP Fosto       | oria to Lima   | Rater(s): Beth Hollinder   | 1, Chris Davisson  | Date: 7/2/2022  |
|-----------------------|--|--|--|---|
| 2 2                   | Wetric 1. Wetland Ar   | ea (size).   |  | Wetland 1-AF  |
|                       | Select one size class and assign score   | 2ha) (5 pts) a) (4 pts) (3 pts) ha) (2pts) 12ha) (1 pt)  |  |   |
| 12 14                 | Metric 2. Upland buf   | fers and surroun   | ding land use.   |   |
|                       | MEDIUM. Buffers average 2 NARROW. Buffers average VERY NARROW. Buffers av 2b. Intensity of surrounding land use. VERY LOW. 2nd growth or of LOW. Old field (>10 years), MODERATELY HIGH. Resident  | (164ft) or more around wetland<br>5m to <50m (82 to <164ft) arou<br>10m to <25m (32ft to <82ft) aro<br>erage <10m (<32ft) around wet | perimeter (7) and wetland perimeter (4) and wetland perimeter (1) land perimeter (0) d average. vildlife area, etc. (7) th forest. (5) aservation tillage, new fallo | ow field. (3)   |
| 15 29                 | Metric 3. Hydrology.   |  |  |   |
|                       | 3a. Sources of Water. Score all that a High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface Perennial surface water (lake 3c. Maximum water depth. Select only >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (1) <ul> <li>&lt;0.4 m (&lt;15.7in) (1)</li> </ul> 3e. Modifications to natural hydrologic. | e water (3) or stream) (5) one and assign score.   | Part of wetland/uj Part of riparian or Duration inundation/satt Semi- to permane Regularly inundat Seasonally inund Seasonally satura                                | in (1) lake and other human use (1) pland (e.g. forest), complex (1) r upland corridor (1) uration. Score one or dbl check. ently inundated/saturated (4) ted/saturated (3) |
|                       | None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1)  |  |  |   |
| 9 28                  | Metric 4. Habitat Alt  | eration and Devel  | opment.  |   |
|                       | 4a. Substrate disturbance. Score one None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1)  4b. Habitat development. Select only (1) Excellent (7) Very good (6) Good (5)   |  |  |   |
|                       | Moderately good (4) Fair (3) Poor to fair (2) Poor (1) C. Habitat alteration. Score one or do  | uble check and average   |  |   |
| 38 subtotal this page | None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)   | Check all disturbances observed mowing grazing clearcutting selective cutting woody debris removal toxic pollutants                  | shrub/sapling rem herbaceous/aqua sedimentation dredging farming nutrient enrichme   | tic bed removal   |

| Site: ASP Fostoria to Lima Rater   | (s): Reta       | Hollinder, Chris Davisson  | Date: 7/2/2022   |
|--|-----------------|--|--|
|  | 20100           | ioninaryota a sur casi   | Wetland 1-AF   |
| subtotal first page  |                 |  |  |
| O 38 Metric 5. Special Wetlan  | ıds.            |  |  |
| max 10 pts. subtotal Check all that apply and score as indicated.              |                 |  |  |
| Bog (10)<br>Fen (10)   |                 |  |  |
| Old growth forest (10)   |                 |  |  |
| Mature forested wetland (5)  |                 | 4-1(40)  |  |
| Lake Erie coastal/tributary wetland-t<br>Lake Erie coastal/tributary wetland-r | unrestricted by | drology (10)   |  |
| Lake Plain Sand Prairies (Oak Oper   |                 | nogy (5)   |  |
| Relict Wet Prairies (10)   |                 |  |  |
| Known occurrence state/federal three   | eatened or end  | angered species (10)   |  |
| Significant migratory songbird/water Category 1 Wetland. See Question          | 1 Qualitative F | usage (10)   |  |
| Motrie C Dlant   |                 |  | onography  |
| 0 38 Wetric 6. Plant commun  | ides, iii       | erspersion, iniciou  | opograpity.  |
| max 20 pts. subtotal 6a. Wetland Vegetation Communities.                       | Vegetation      | Community Cover Scale  |  |
| Score all present using 0 to 3 scale.  | 0               | Absent or comprises <0.1ha (0.2  | 2471 acres) contiguous area  |
| Aquatic bed  | 1               | Present and either comprises sn  | nall part of wetland's   |
| t Emergent<br>Shrub  |                 | vegetation and is of moderate  |  |
| Forest   | 2               | significant part but is of low qua<br>Present and either comprises significant |  |
| Mudflats   | -               | vegetation and is of moderate  |  |
| Open water   |                 | part and is of high quality  |  |
| Cher  6b. horizontal (plan view) Interspersion.                                | 3               | Present and comprises significan   | The state of the s |
| Select only one.   |                 | vegetation and is of high qualit   | у  |
| High (5)   | Narrative D     | escription of Vegetation Quality   |  |
| Moderately high(4)   | low             | Low spp diversity and/or predom  |  |
| Moderate (3)  Moderately low (2)   | mod             | Native spp are dominant compor   |  |
| Low (1)  | mod             | although nonnative and/or distr  |  |
| None (0)   |                 | can also be present, and speci   | es diversity moderate to   |
| 6c. Coverage of invasive plants. Refer   |                 | moderately high, but generally   |  |
| to Table 1 ORAM long form for list. Add<br>or deduct points for coverage       | high            | A predominance of native specie  |  |
| Extensive >75% cover (-5)  | g.              | and/or disturbance tolerant nat  |  |
| Moderate 25-75% cover (-3)   |                 | absent, and high spp diversity   |  |
| Sparse 5-25% cover (-1)  |                 | the presence of rare, threatene  | ed, or endangered spp  |
| Nearly absent <5% cover (0) Absent (1)   | Mudflat and     | Open Water Class Quality   |  |
| 6d. Microtopography.   | 0               | Absent <0.1ha (0.247 acres)  |  |
| Score all present using 0 to 3 scale.  | 1               | Low 0.1 to <1ha (0.247 to 2.47 a   |  |
| Vegetated hummucks/tussucks Coarse woody debris >15cm (6in)                    | 3               | Moderate 1 to <4ha (2.47 to 9.8  | 8 acres)   |
| O Standing dead >25cm (10in) dbh   |                 | High 4ha (9.88 acres) or more  |  |
| Amphibian breeding pools   | Microtopog      | raphy Cover Scale  |  |
|  | 0               | Absent   |  |
|  | 1               | Present very small amounts or if<br>of marginal quality                        | more common  |
|  | 2               | Present in moderate amounts, but   | ut not of highest  |
|  |                 | quality or in small amounts of h   | nighest quality  |
|  | 3               | Present in moderate or greater a   |  |
| - 0  |                 | and of highest quality   |  |

ORAM v. 5.0 Field Form Quantitative Rating Date: 7/3/22 Rater(s): Beth Hollinden, Cur's Davisson Site: AEP Fostoria to Lima Metric 1. Wetland Area (size). Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. Calculate average buffer width. Select only one and assign score. Do not double check. max 14 pts subtotal WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) Intensity of surrounding land use. Select one or double check and average VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. 3b. Connectivity. Score all that apply. nax 30 pts subtotal 3a. Sources of Water. Score all that apply. 100 year floodplain (1) High pH groundwater (5) Between stream/lake and other human use (1) Other groundwater (3) Part of wetland/upland (e.g. forest), complex (1) Precipitation (1) Part of riparian or upland corridor (1) Seasonal/Intermittent surface water (3) Perennial surface water (lake or stream) (5)

Maximum water depth. Select only one and assign score. 3d. Duration inundation/saturation. Score one or dbl check. Semi- to permanently inundated/saturated (4) Regularly inundated/saturated (3) >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) <0.4m (<15.7in) (1) Seasonally saturated in upper 30cm (12in) (1) 3e. Modifications to natural hydrologic regime. Score one or double check and average. Check all disturbances observed None or none apparent (12) Recovered (7) ditch point source (nonstormwater) tile filling/grading Recovering (3) Recent or no recovery (1) dike road bed/RR track dredging weir stormwater input other Metric 4. Habitat Alteration and Development. subtota

| 4a. | Substrate disturbance. Score one None or none apparent (4) Recovered (3) Recovering (2)  | or double check and average.  |   |
|-----|--|---|---|
|     | Recent or no recovery (1)  |   |   |
|     | Habitat development. Select only Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) Habitat alteration. Score one or do |   |   |
|     | None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)   | Check all disturbances observed mowing grazing clearcutting selective cutting | shrub/sapling removal herbaceous/aquatic bed removal sedimentation dredging |

woody debris removal

toxic pollutants

farming

nutrient enrichment

22

last revised 1 February 2001 jjm

| Site: AEP Fostoria to Lima Rat                                     | ter(s): Beth He   | ollinder, Clas Davisson Date: 7/3/22   |
|--|-------------------|--|
|  |                   | Wetland I-A  |
| 2.7  |                   |  |
| subtotal first page  |                   |  |
| O 22 Metric 5. Special Wetl  | ands.             |  |
| ax 10 pts subtotal Check all that apply and score as indicated     | d.                |  |
| Bog (10)<br>Fen (10)   |                   |  |
| Old growth forest (10)   |                   |  |
| Mature forested wetland (5)  |                   |  |
| Lake Erie coastal/tributary wetla                                  |                   |  |
| Lake Erie coastal/tributary wetla                                  |                   | ology (5)  |
| Lake Plain Sand Prairies (Oak C                                    | openings) (10)    |  |
| Known occurrence state/federal                                     | threatened or end | angered species (10)   |
| Significant migratory songbird/w                                   |                   |  |
| Category 1 Wetland. See Ques                                       |                   |  |
| Metric 6. Plant commu  | unities, int      | erspersion, microtopography.   |
| 2 24 Metric 6. Flant commi   |                   |  |
| nax 20 pts. subtotal 6a. Wetland Vegetation Communities.           |                   | Community Cover Scale  |
| Score all present using 0 to 3 scale.                              | 0                 | Absent or comprises <0.1ha (0.2471 acres) contiguous area<br>Present and either comprises small part of wetland's  |
| Aquatic bed 2 Emergent   | -                 | vegetation and is of moderate quality, or comprises a  |
| Shrub  |                   | significant part but is of low quality   |
| Forest   | 2                 | Present and either comprises significant part of wetland's   |
| Mudflats   |                   | vegetation and is of moderate quality or comprises a small   |
| Open water   |                   | part and is of high quality  |
| Other 6b. horizontal (plan view) Interspersion.                    | 3                 | Present and comprises significant part, or more, of wetland's<br>vegetation and is of high quality                 |
| Select only one.   |                   | vegetation and is or night quality   |
| High (5)   | Narrative D       | Description of Vegetation Quality  |
| Moderately high(4)   | low               | Low spp diversity and/or predominance of nonnative or  |
| Moderate (3)   |                   | disturbance tolerant native species  |
| Moderately low (2) Low (1)   | mod               | Native spp are dominant component of the vegetation,<br>although nonnative and/or disturbance tolerant native spp  |
| None (0)   |                   | can also be present, and species diversity moderate to   |
| 6c. Coverage of invasive plants. Refer                             |                   | moderately high, but generally w/o presence of rare  |
| to Table 1 ORAM long form for list. Add                            |                   | threatened or endangered spp   |
| or deduct points for coverage                                      | high              | A predominance of native species, with nonnative spp<br>and/or disturbance tolerant native spp absent or virtually |
| Extensive >75% cover (-5)  Moderate 25-75% cover (-3)              |                   | absent, and high spp diversity and often, but not always,  |
| Sparse 5-25% cover (-1)  |                   | the presence of rare, threatened, or endangered spp  |
| Nearly absent <5% cover (0)  |                   |  |
| Absent (1)   |                   | d Open Water Class Quality   |
| 6d. Microtopography.   |                   | Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 acres)  |
| Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks | 2                 | Moderate 1 to <4ha (2.47 to 9.88 acres)  |
| Coarse woody debris >15cm (6i                                      |                   | High 4ha (9.88 acres) or more  |
| Standing dead >25cm (10in) db                                      |                   |  |
| Amphibian breeding pools   |                   | graphy Cover Scale   |
|  | 0                 | Absent   |
|  | 1                 | Present very small amounts or if more common of marginal quality   |
|  | 2                 | Present in moderate amounts, but not of highest  |
|  | _                 | quality or in small amounts of highest quality   |
|  | 3                 | Present in moderate or greater amounts   |
|  |                   | and of highest quality   |

ORAM v. 5.0 Field Form Quantitative Rating Date: 7/3/22 Rater(s): Beth Hollingon, Chris Davisson Site: AEP Fostoria to Lima Wetland 1-AH Metric 1. Wetland Area (size). Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. Calculate average buffer width. Select only one and assign score. Do not double check. subtotal WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. 3b. Connectivity. Score all that apply. 3a. Sources of Water. Score all that apply. max 30 pts. subtotal 100 year floodplain (1) High pH groundwater (5) Between stream/lake and other human use (1) Other groundwater (3) Part of wetland/upland (e.g. forest), complex (1) Precipitation (1) Part of riparian or upland corridor (1) Seasonal/Intermittent surface water (3) 3d. Duration inundation/saturation. Score one or dbl check. Perennial surface water (lake or stream) (5) Maximum water depth. Select only one and assign score. Semi- to permanently inundated/saturated (4) Regularly inundated/saturated (3) >0.7 (27.6in) (3) Seasonally inundated (2) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally saturated in upper 30cm (12in) (1) <0.4m (<15.7in) (1) 3e. Modifications to natural hydrologic regime. Score one or double check and average None or none apparent (12) Check all disturbances observed point source (nonstormwater) Recovered (7) ditch tile filling/grading Recovering (3) Recent or no recovery (1) dike road bed/RR track weir dredging stormwater input Metric 4. Habitat Alteration and Development. Substrate disturbance. Score one or double check and average. subtotal max 20 pts. 4a. None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select only one and assign score. Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average. None or none apparent (9) Check all disturbances observed mowing shrub/sapling removal Recovered (6)

grazing

clearcutting

selective cutting

toxic pollutants

woody debris removal

herbaceous/aquatic bed removal

sedimentation

nutrient enrichment

dredaina

farming

last revised 1 February 2001 jjm

Recovering (3)

Recent or no recovery (1)

| Site: AEP F          | ostoria to Lima Rater  | (s): Beth H     | Olimber, Curis Davisson Date: 7/3/22   |
|----------------------|--|-----------------|--|
|                      | 7  |                 | Wetland 1-AH   |
| 39<br>subtotal first |  |                 |  |
| 0 34                 | Metric 5. Special Wetlan   | ıds.            |  |
| max 10 pts. subtotal | check an that apply and score as indicated.                                    |                 |  |
|                      | Bog (10)<br>Fen (10)   |                 |  |
|                      | Old growth forest (10)   |                 |  |
|                      | Mature forested wetland (5)  |                 |  |
|                      | Lake Erie coastal/tributary wetland-u  |                 |  |
|                      | Lake Erie coastal/tributary wetland-r Lake Plain Sand Prairies (Oak Oper       |                 | logy (5)   |
|                      | Relict Wet Prairies (10)   | lings) (10)     |  |
|                      | Known occurrence state/federal three   | eatened or enda | angered species (10)   |
|                      | Significant migratory songbird/water   | fowl habitat or | usage (10)   |
|                      | Category 1 Wetland. See Question   | 1 Qualitative R | ating (-10)  |
| 4 38                 | Metric 6. Plant commun   | ities, int      | erspersion, microtopography.   |
| max 20 pts. subtotal | 6a. Wetland Vegetation Communities.  | Vegetation      | Community Cover Scale  |
|                      | Score all present using 0 to 3 scale.  | 0               | Absent or comprises <0.1ha (0.2471 acres) contiguous area  |
|                      | Aquatic bed  | 1               | Present and either comprises small part of wetland's   |
|                      | Emergent   |                 | vegetation and is of moderate quality, or comprises a  |
|                      | Shrub<br>7 Forest  | 2               | significant part but is of low quality  Present and either comprises significant part of wetland's |
|                      | Mudflats   | 2               | vegetation and is of moderate quality or comprises a small   |
|                      | Open water   |                 | part and is of high quality  |
|                      | Other  | 3               | Present and comprises significant part, or more, of wetland's                                      |
|                      | 6b. horizontal (plan view) Interspersion.                                      |                 | vegetation and is of high quality  |
|                      | Select only one.   | Normative D     | and intimation of Manatation Quality   |
|                      | High (5) Moderately high(4)  | low             | Escription of Vegetation Quality  Low spp diversity and/or predominance of nonnative or            |
|                      | Moderate (3)   | 1011            | disturbance tolerant native species  |
|                      | Moderately low (2)   | mod             | Native spp are dominant component of the vegetation,   |
|                      | Low (1)  |                 | although nonnative and/or disturbance tolerant native spp  |
|                      | None (0)   |                 | can also be present, and species diversity moderate to   |
|                      | 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add |                 | moderately high, but generally w/o presence of rare threatened or endangered spp                   |
|                      | or deduct points for coverage  | high            | A predominance of native species, with nonnative spp   |
|                      | Extensive >75% cover (-5)  |                 | and/or disturbance tolerant native spp absent or virtually   |
|                      | Moderate 25-75% cover (-3)   |                 | absent, and high spp diversity and often, but not always,  |
|                      | Sparse 5-25% cover (-1)  |                 | the presence of rare, threatened, or endangered spp  |
|                      | Nearly absent <5% cover (0) Absent (1)   | Mudflat and     | Open Water Class Quality   |
|                      | 6d. Microtopography.   | 0               | Absent <0.1ha (0.247 acres)  |
|                      | Score all present using 0 to 3 scale.  | 1               | Low 0.1 to <1ha (0.247 to 2.47 acres)  |
|                      | Vegetated hummucks/tussucks  | 2               | Moderate 1 to <4ha (2.47 to 9.88 acres)  |
|                      | Coarse woody debris >15cm (6in)  | 3               | High 4ha (9.88 acres) or more  |
|                      | 2 Standing dead >25cm (10in) dbh   | Migraton        | ranhy Cover Seele  |
|                      | Amphibian breeding pools   | 0 Nicrotopog    | Absent   |
|                      |  | 1               | Present very small amounts or if more common   |
|                      |  |                 | of marginal quality  |
|                      |  | 2               | Present in moderate amounts, but not of highest  |
|                      |  |                 | quality or in small amounts of highest quality   |
|                      |  | 3               | Present in moderate or greater amounts   |

| Site: ASP Fai        | storia to Li      | Ma   | Rater(s): Beth Hollinde  | n. Chris Davisson                         | Date: 7/4/22   |
|----------------------|-------------------|--|--|---|--|
|                      |                   |  | ,                                | 7   | wetland 1-AI   |
| 1 1                  | Metric 1.         | Wetland Ar   | rea (size).  |   |  |
| may 6 ata a sharel   |                   |  |  |   |  |
| max 6 pts subtotal   |                   | class and assign score<br>cres (>20.2ha) (6 pts)     | <b>)</b> ,   |   |  |
|                      |                   | <50 acres (10.1 to <20                               |  |   |  |
|                      |                   | <25 acres (4 to <10.1h<br>10 acres (1.2 to <4ha)     |  |   |  |
|                      |                   | <3 acres (0.12 to <1.2 <0.3 acres (0.04 to <0        |  |   |  |
|                      |                   | acres (0.04ha) (0 pts)                               | . 12110) (1 pt)  |   |  |
| 3 4                  | Metric 2.         | Upland but   | fers and surroun   | iding land use.                           |  |
| max 14 pts. subtotal |                   |  | elect only one and assign score  |   |  |
|                      |                   |  | n (164ft) or more around wetland<br>25m to <50m (82 to <164ft) arou    |   |  |
|                      |                   |  | 10m to <25m (32ft to <82ft) ard<br>verage <10m (<32ft) around we       |   |  |
|                      | 2b. Intensity of  | surrounding land use.                                | Select one or double check an  | d average.                                |  |
|                      |                   |  | older forest, prairie, savannah, shrub land, young second grow         |   |  |
|                      | MODE              | ERATELY HIGH. Resi                                   | idential, fenced pasture, park, co<br>en pasture, row cropping, mining | onservation tillage, new fallo            | ow field. (3)  |
| 7 11                 |                   | Hydrology.   |  | g, construction. (1)                      |  |
| max 30 pts. subtotal | 3a. Sources of    | Water. Score all that a                              | apply.   | 3b. Connectivity. Score all               | that apply.  |
|                      | High (            | pH groundwater (5)                                   |  | 100 year floodpla                         | in (1)<br>lake and other human use (1)                   |
|                      |                   | groundwater (3)<br>pitation (1)                      |  | Part of wetland/u                         | pland (e.g. forest), complex (1)                         |
|                      |                   | onal/Intermittent surfac<br>inial surface water (lak |  |   | r upland corridor (1)<br>uration. Score one or dbl check |
|                      | 3c. Maximum w     | vater depth. Select onl                              | y one and assign score.  | Semi- to permane                          | ently inundated/saturated (4)                            |
|                      |                   | (27.6in) (3)<br>0.7m (15.7 to 27.6in) (              | (2)  | Regularly inundate<br>Seasonally inundate |  |
|                      | <0.4m             | n (<15.7in) (1)                                      |  | Seasonally satura                         | ated in upper 30cm (12in) (1)                            |
|                      |                   | or none apparent (12)                                | cregime. Score one or double of Check all disturbances observed        |   |  |
|                      | Reco              | vered (7)  | ditch  | point source (non                         | stormwater)  |
|                      |                   | vering (3)<br>nt or no recovery (1)                  | tile<br>dike   | filling/grading road bed/RR trac          | k  |
|                      | _                 | .,,  | weir   | dredging                                  |  |
|                      | 7                 |  | stormwater input   | other                                     |  |
| 7 18                 | Metric 4          | . Habitat Alt  | eration and Deve   | elopment.                                 |  |
| max 20 pts. subtotal |                   |  | or double check and average.   |   |  |
|                      |                   | or none apparent (4) vered (3)                       |  |   |  |
|                      |                   | vering (2)<br>nt or no recovery (1)                  |  |   |  |
|                      | 4b. Habitat dev   | elopment. Select only                                | one and assign score.  |   |  |
|                      |                   | lent (7)<br>good (6)                                 |  |   |  |
|                      | Good              | (5)  |  |   |  |
|                      | Moder<br>Fair (3  | rately good (4)                                      |  |   |  |
|                      | ✓ Poor t          | o fair (2)   |  |   |  |
|                      | Poor (            |  | ouble check and average.   |   |  |
|                      | The second second | or none apparent (9)                                 | Check all disturbances observ  | /ed                                       |  |
|                      | Recov             | vered (6)  | mowing   | shrub/sapling ren                         |  |
|                      |                   | vering (3)<br>at or no recovery (1)                  | grazing clearcutting   | herbaceous/aqua                           | itic bed removal   |
| 10                   |                   |  | selective cutting  | dredging                                  |  |
| 10                   |                   |  | woody debris removal toxic pollutants                                  | farming nutrient enrichme                 | ent  |
| subtotal this pa     |                   |  |  |   |  |
| ast revised 1 Februa | ry 2001 jjm       |  |  |   |  |

| Metric 5. Special Wetlands.  Check all that apply and score as indicated.  Bog (10)  For (10)  Old growth forest (10)  Mature forested wetland (5)  Lake Eric coastal/tributary wetland-vestricted hydrology (10)  Lake Eric coastal/tributary wetland-vestricted hydrology (10)  Lake Eric coastal/tributary wetland-vestricted hydrology (10)  Rolick Wet Prairies (10)  Rolick Wet Prairies (10)  Rolick Wet Prairies (10)  Rolic Wet Prairies (10)  Rolic Wet Prairies (10)  Rolic Wetland Vegetation Communities, interspersion, microtopography.  Wetland Vegetation Communities, interspersion, microtopography.  Score all present using 0 to 3 scale.  Aquatic bed  Energent  Snub  Forest  Mudflats  Open water  Other  Other  Aquatic bed  Energent  Snub  Forest  Moderately low (2)  Low (3)  Moderately low (2)  Low (4)  Moderately low (2)  Low (5)  Moderately for Wetland (5)  Extensive 275% cover (5)  Moderately for Wetland (5)  Present and either comprises significant part, or more, of wetland vegetation and is of moderate quality or comprises a small part and is of high quality  1 Present and comprises significant part, or more, of wetland vegetation and is of moderate quality or comprises a small part and is of high quality  2 Present and either comprises significant part or more, of wetland vegetation and is of moderate quality or comprises a small part and is of high quality  1 Wetland Vegetation and is of moderate quality or comprises a small part of wetlands on deduct points for coverage  Extensive 275% cover (5)  Moderately low (2)  Low (10)  Apsent (1)  6d. Mercologography  Score all present using 0 to 3 scale.  Open water (5% cover (6))  Apsent (1)  Appellation and is of moderate quality or more in the vegetation and is of high quality  Older (10)  Appellation and is of moderate quality or more in the vegetation and is of high quality  Appellation and is of moderate quality or more in the vegetation and is of high quality  Appellation and is of high quality  Wetland Vegetation and is of high quality  Wetland Vegetation and i | Site: ASP F         | ostoria to Lima Rate                | r(s): Beth H | ollinder, Chris Davisson   | Date: 7/4/22   |
|--|---------------------|-------------------------------------|--------------|--|--|
| Metric 5. Special Wetlands.  Check all that apply and score as indicated.  Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Eric coastal/firbulary wetland-unrestricted hydrology (10) Lake Eric coastal/firbulary wetland-unrestricted hydrology (5) Lake Plain Sand Prairies (Oak Openings) (10) Relict Wetl Prairies Relict Wetl Prairies Relict Wetland Vegetation Communities, interspersion, microtopography.  Gategory 1 Wetland See Question 1 Qualitative Rating (-10)  Wetric 6. Plant communities, interspersion, microtopography.  Gategory 1 Wetland See Question 1 Qualitative Rating (-10)  Wetland Vegetation Communities, interspersion, microtopography.  Gategory 1 Wetland See Question 1 Qualitative Rating (-10)  Wetland Vegetation Communities, interspersion, microtopography.  Goreal present using 0 to 3 scale.  Aqualic bed Emergent Shrub Forest Open water Other Shorizontal (plan view) Interspersion. Select only one.  High (5) Moderate (3) None (0) Select only one.  Persent and either comprises significant part of wetland's vegetation and is of moderate quality, or comprises a smap part and is of high quality.  3 Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a smap part and is of high quality.  Worderate (3) Worderate (3) Worderate (3) Worderate (3) Worderate (3) None (0) Sc. Coverage of inwasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage in wasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage.  Moderate (3) Sparse 5-25% cover (-1) Nearly absent (-3) Resent (-3) Resent (-3) Resent (-3) Resent (-4) Resent | 19                  |                                     |              | ,  | Date: 7/4/22<br>Wetland 1-A  |
| Metric 5. Special Wetlands.  Check all that apply and score as indicated.  Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Eric coastal/firbulary wetland-unrestricted hydrology (10) Lake Eric coastal/firbulary wetland-unrestricted hydrology (5) Lake Plain Sand Prairies (Oak Openings) (10) Relict Wetl Prairies Relict Wetl Prairies Relict Wetland Vegetation Communities, interspersion, microtopography.  Gategory 1 Wetland See Question 1 Qualitative Rating (-10)  Wetric 6. Plant communities, interspersion, microtopography.  Gategory 1 Wetland See Question 1 Qualitative Rating (-10)  Wetland Vegetation Communities, interspersion, microtopography.  Gategory 1 Wetland See Question 1 Qualitative Rating (-10)  Wetland Vegetation Communities, interspersion, microtopography.  Goreal present using 0 to 3 scale.  Aqualic bed Emergent Shrub Forest Open water Other Shorizontal (plan view) Interspersion. Select only one.  High (5) Moderate (3) None (0) Select only one.  Persent and either comprises significant part of wetland's vegetation and is of moderate quality, or comprises a smap part and is of high quality.  3 Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a smap part and is of high quality.  Worderate (3) Worderate (3) Worderate (3) Worderate (3) Worderate (3) None (0) Sc. Coverage of inwasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage in wasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage.  Moderate (3) Sparse 5-25% cover (-1) Nearly absent (-3) Resent (-3) Resent (-3) Resent (-3) Resent (-4) Resent |                     | 2                                   |              |  |  |
| Check all that apply and score as indicated.  Bog (10) Fen (10) Oid growth forest (10) Mature forested wetland (5) Lake Eric coastal/irributary wetland-unrestricted hydrology (10) Lake Eric coastal/irributary wetland-versetricted hydrology (5) Lake Eric coastal/irributary wetland-versetricted hydrology (10) Relict Wet Prainies (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbir/dwater fowl habitat or usage (10) Category 1 Wetland See Question I Qualitative Railing (-10)  Wetric 6. Plant communities, interspersion, microtopography.  Wetric 6. Plant communities, interspersion, microtopography.  Vegetation Community Cover Scale  Score all present using 0 to 3 scale.  Aquatic bed Lemergent L | subtotal his        |                                     | nde          |  |  |
| Bog (10) Fen (10) Old growth forest (10) Old growth forest (10) Old growth forest (10) Old growth forest (10) Lake Eric coastal/tributary wetland-unrestricted hydrology (5) Lake Eric coastal/tributary wetland-restricted hydrology (5) Lake Eric coastal/tributary wetland-restricted hydrology (5) Lake Eric coastal/tributary wetland-restricted hydrology (5) Lake Plani Sand Praines (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbir/dwater fowl habitat or usage (10) Category 1 Wetland See Question 1 Qualitative Rating (-10)  Wetric 6. Plant communities, interspersion, microtopography.  Wetland Vegetation Communities, interspersion, microtopography.  Wetland Vegetation Community Cover Scale Score all present using 0 to 3 scale. Aquatic bed Lemergent Emergent Emergent Emergent Emergent Shrub Forest Mudflast Open water Other Other High (6) Moderately high(4) Moderately (10) Moderately high(4) Moderately (10) Moderately (10) Moderately high(4) Moderately (10) Moderately (10) Moderately (10) Moderately (10) Extensive >75% cover (-1) Nearly absent <5% cover (-1) Appetitude of the vegetation (10) | 0 18                | Mictile 5. Opecial Wella            | ilus.        |  |  |
| Fen (10)   Old growth forest (10)   Cake Eric coastal/tributary wetland-inestricted hydrology (5)   Lake Eric coastal/tributary wetland-inestricted hydrology (6)   Lake Plain Sand Prairies (0Ac Openings) (10)   Relick Wet Prairies (10)   Category I Wetland See Question 1 Qualitative Rating (10)   Category I Wetland See Question 1 Qualitative Rating (10)   Category I Wetland See Question 1 Qualitative Rating (10)   Category I Wetland See Question 1 Qualitative Rating (10)   Absent onomyrises (10)   Category I Wetland See Question 1 Qualitative Rating (10)   Category I Wetland See Question 1 Qualitative Rating (10)   Absent onomyrises (10)   Category I Wetland See Question 1 Qualitative Rating (10)   Absent onomyrises (10)   Absent onomyrises (10)   Absent onomyrises (10)   Absent (10)   Amphibian breeding pools   Amphibian breeding pools   Apresent in moderate amounts of Implest quality or in small amounts of Implest quality or in small amounts of Implest quality or of finging all quality or in small amounts of Implest quality or of finging all quality or in small amounts of Implest quality or in small amounts of Imples   | nax 10 pts. subtota |                                     |              |  |  |
| Old growth forest (10)  Mature forested weekland (5) Lake Eric coastal/tributary wetland-unrestricted hydrology (10) Lake Eric coastal/tributary wetland-unrestricted hydrology (5) Lake Eric coastal/tributary wetland-unrestricted hydrology (5) Lake Eric coastal/tributary wetland-unrestricted hydrology (5) Lake Plain Sand Prairies (10) Relict Wet Prairies (10) Rown occurrence state/defeal threatened or endangered species (10) Significant migratory songlar/dwater fowl habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10)  Metric 6. Plant communities, interspersion, microtopography.  Wegetation Community Cover Scale Score all present using 0 to 3 scale. Agualitic bed Emergent Shrub Forest Olher Open water Other |                     |                                     |              |  |  |
| Lake Eric coastal/tributary wetland-unrestricted hydrology (10) Lake Plain Sand Prairies (Oak Openings) (10) Relict Wet Prairies (10) Romo occurrence state/federal threatened or endangered species (10) Significant migratory songliridwater fowl habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10) Metric 6. Plant communities, interspersion, microtopography.    Metric 6. Plant communities, interspersion, microtopography.   |                     |                                     |              |  |  |
| Lake Eric coastaltributary wetland-restricted hydrology (5) Lake Plain Sand Prairies (0ak Openings) (10) Relict Wet Prairies (10) Relict Metric G. Plant communities, intersepersion, microtopography. Vegetation Community Cover Scale  Vegetation Community Cover Scale Negtation Community Cover Scale Neg |                     |                                     |              |  |  |
| Lake Plain Sand Prairies (Oak Openings) (10)  Relict Wet Prairies (10)  Known occurrence state/federal threatened or endangered species (10)  Significant migratory songbird/water fowl habitat or usage (10)  Category 1 Wetland. See Question 1 Qualitative Rating (10)  Metric 6. Plant communities, interspersion, microtopography.  Ga. Wetland Vegetation Communities.  Score all present using 0 to 3 scale.  Aquatic bed Persent and either comprises on this (0.2471 acres) contiguous are vegetation and is of moderate quality, or comprises a significant part but is of low quality.  Persent and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a significant part but is of low quality.  Persent and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a smapart and is of high quality.  Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a smapart and is of high quality.  Present and comprises significant part of wetland's vegetation and is of high quality.  Present and comprises significant part, or more, of wetland vegetation and is of high quality.  Narrative Description of Vegetation Quality.  None (0)  Gc. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate >75% cover (-5)  Moderate >75% cover (-6)  Moderate >75% cover (-7)  Nearly absent <5% cover (0)  Absent (1)  Gd. Microtopography.  Score all present using 0 to 3 scale.  Present very small amounts or if more common of marginal quality.  Present in moderate amounts, but not of highest quality or moderate amounts. but not of highest quality or moderate or greater amounts.  |                     |                                     |              |  |  |
| Relict Wet Prairies (10)  Known occurrence state/federal threatened or endangered species (10)  Significant migratory songbird/water fowl habitat or usage (10)  Category 1 Wetland. See Question 1 Qualitative Rating (10)  Metric 6. Plant communities, interspersion, microtopography.  Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub Forest Mudflats Open water Other Other Other High (5) Moderately high (4) Moderately high (4) Moderately low (2) Low (1) None (0) Coc. Coverage Extensive >75% cover (-5) Moderate 25-75% cover (-5) Moderate 25-75% cover (-5) Moderate 25-75% cover (-5) Moderate (3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) Extensive >75% cover (-6) Absent (1) Corporation of Vegetation and is of high quality Iow Coverage Extensive >75% cover (-5) Moderate 25-75% cover (-6) Absent (1) Coverage C |                     |                                     |              | nogy (5)   |  |
| Significant migratory songbird/water fowl habitat or usage (10)  Category 1 Wetland. See Question 1 Qualitative Rating (-10)  Metric 6. Plant communities, interspersion, microtopography.  Vegetation Community Cover Scale  Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub Forest Mudflats Open water Other Other Other High (5) Moderately high (4) Moderately high (4) Moderately high (5) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-3) Sparse >525% cover (-1) Nearly absent (-5) Moderate 25-75% cover (-5) Absent (1) 6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/fussucks O Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Microtopography Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Microtopography Cover Scale  O Absent (-1) Apphibian breeding pools  Metric 6. Plant communities, interspersion, microtopography.  Vegetation Community Cover Scale  O Absent or comprises <0.1ha (0.2471 acres) contiguous are vegetation and is of moderate quality, or comprises a significant part of wetland's vegetation and is of moderate quality or comprises a significant part of wetland's vegetation and is of high quality  Narrative Description of Vegetation Quality  Iow Low spp diversity and/or predominance of nonnative or disturbance tolerant native species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp  Mudflat and Open Water Class Quality  O Absent (-1) tha (0.247 acres)  1 Low 0.1 to <1ha (0.247 to 2.47 acres)  2 Moderate 1 to <4ha (2.47 to 9.88 acres) or more  Microtopography Cover Scale  O Absent (-1) tha (0.247 to 2.47 acres)  Present in moderate amounts, but not highest quality or in small amounts of highest quality or in small amounts   |                     |                                     | 3-71-7       |  |  |
| Scalegory 1 Wetland. See Question 1 Qualitative Rating (-10)   Metric 6. Plant communities, interspersion, microtopography.   Metric 6. Plant communities, interspersion, microtopography.   Ga. Wetland Vegetation Communities. Score all present using 0 to 3 scale.     Aquatic bed   Lemergent   Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality.     Forest   Mudflats   Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part of wetland's vegetation and is of moderate quality or comprises a small part of wetland's vegetation and is of high quality.     Present and either comprises significant part of wetland's vegetation and is of high quality.     Present and either comprises small part of wetland's vegetation and is of moderate quality or comprises a significant part of wetland's vegetation and is of high quality.     Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part of wetland's vegetation and is of high quality.     Present and either comprises small part of wetland's vegetation and is of moderate quality or comprises a small part of wetland's vegetation and is of high quality.     Present and either comprises significant part of wetland's vegetation and is of high quality.     Present and comprises significant part of wetland's vegetation and is of high quality.     Present and of vegetation and is of high quality.     Narrative Description of Vegetation Quality.   |                     |                                     |              |  |  |
| Metric 6. Plant communities, interspersion, microtopography.  6a. Wetland Vegetation Communities. Score all present using 0 to 3 scale.  Aquatic bed   |                     |                                     |              |  |  |
| Socre all present using 0 to 3 scale.  Aquatic bed Emergent Shrub Forest Present and either comprises small part of wetland's vegetation and is of high quality or comprises a significant part but is of low quality or comprises a significant part but is of low quality or comprises a significant part but is of high quality or comprises a small part and is of high quality or comprises a small part and is of high quality or comprises a small part and is of high quality or comprises a small part and is of high quality or comprises a small part and is of high quality or comprises a small part and is of high quality or comprises a small part and is of high quality or comprises a small part and is of high quality or comprises a small part of wetland's vegetation and is of high quality or comprises a small part of wetland's vegetation and is of high quality or development and is of high quality or comprises a small part of wetland's vegetation and is of high quality or development and is of high quality or development and is of high quality or a small part of wetland's vegetation and is of high quality or development and is of high quality or moderate quality or comprises a significant part of wetland's vegetation and is of high quality or development and is of high quality  | 0 10                | B#-4: 0 DI 4                        |              | AND THE RESERVE TO TH | tonography   |
| Score all present using 0 to 3 scale.    Aquatic bed   Emergent   Emergent   Shrub   Forest   Shrub   Forest   Mudflats   Open water   Other   | 0 18                | wether of Trant commun              | inico, ini   | erspersion, interes  | topograpity.   |
| Aquatic bed Emergent Shrub Forest Mudflats Open water Other Other High (5) Moderately high(4) Moderately low (2) Low (7) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-1) Noarly absent <5% cover (-1) Nearly absent <5% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale.  © Vegetated hummucks/tussucks © Coarse woody debris >15cm (6in) © Standing dead >25cm (10in) dbh © Amphibian breeding pools  1 Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a sma part and is of high quality 2 Present and comprises significant part, or more, of wetland's vegetation and is of high quality 3 Present and comprises significant part, or more, of wetland's vegetation and is of high quality or comprises a sma part and is of high quality or comprises a sma part and is of high quality or comprises a sma part and is of high quality or comprises a significant part to tis flow quality or comprises a significant part to tristland is given and is of high quality or comprises a sma part and is of high quality or comprises a sma part and is of high quality or comprises a sma part and is of high quality or comprises a sma part and is of high quality or default and is o | max 20 pts. subtot  | 6a. Wetland Vegetation Communities. | Vegetation   |  |  |
| vegetation and is of moderate quality, or comprises a significant part but is of low quality  Forest  Mudflats Open water Other Other Other High (5) Moderately high(4) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderately points for coverage Extensive >75% cover (-1) Nearly absent <-5% cover (-1) Nearly absent <-5% cover (-1) Sorre all present using 0 to 3 scale.  © Vegetated hummucks/fussucks © Coarse woody debris >15cm (6in) s Standing dead >25cm (10in) dbh © Amphibian breeding pools  Emergent Shrub  Spreset and so for low quality  Present and comprises significant part, or more, of wetland's vegetation and is of hogh quality  Vegetation and is of low quality  Present and is of high quality  Narrative Description of Vegetation Quality   |                     |                                     |              |  |  |
| Shrub Forest   Mudflats   Open water   Other   |                     |                                     | 1            |  |  |
| Forest Mudflats Open water Other Oth |                     |                                     |              |  |  |
| Open water Other O |                     | Forest                              | 2            |  |  |
| Other  6b. horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high(4)  Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh  Amphibian breeding pools  Absent  Present and comprises significant part, or more, of wetland vegetation and is of high quality  Vegetation and is of high quality  Narrative Description of Vegetation Quality  Low spp diversity and/or predominance of nonnative or disturbance tolerant native species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp  high A predominance of nonnative or disturbance tolerant native spp and/or disturbance tolerant native spe can also be present, and species diversity moderate to moderate and/or disturbance tolerant native spp and/or dist |                     |                                     |              |  | e quality or comprises a small   |
| Select only one.  High (5) Moderately high(4) Moderately (3) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Moderate   Martine   Mar |                     |                                     | 3            |  | ant part or more of wetland's  |
| High (5)  Moderately high(4)  Moderately how (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  © Vegetated hummucks/tussucks  © Coarse woody debris >15cm (6in)  © Standing dead >25cm (10in) dbh  © Moderately high (4)  Microtopography Cover Scale  Microtopography Cover Scale  Microtopography Cover Scale  O Absent 1  Present very small amounts or finghest quality  Present in moderate amounts, but not of highest quality  Present in moderate amounts or disturbance of nonnative or disturbance tolerant native species with nonnative spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native species with nonnative spp and/or disturbance tolera |                     |                                     | · ·          |  |  |
| Moderately high(4)   Moderate (3)   Moderately low (2)   Low (1)   None (0)   Sc. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage   Extensive >75% cover (-5)   Moderate 25-75% cover (-5)   Moderate 25-75% cover (-1)   Nearly absent <5% cover (0)   Absent (1)   Score all present using 0 to 3 scale.   O Vegetated hummucks/fussucks  |                     |                                     |              |  |  |
| Moderate (3)   |                     |                                     |              |  |  |
| Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10lin) dbh Amphibian breeding pools  Microtopography Cover Scale  O Absent  O Absent  Present very small amounts or if more common of marginal quality  Present in moderate or greater amounts  Mudflat and Open Water Class Quality  O Absent  O Absent  O Absent  Present using 0 to 3 scale.  O Absent  Present in moderate amounts, but not of highest quality  Present in moderate or greater amounts   |                     |                                     | iow          |  |  |
| Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh  O Amphibian breeding pools  Microtopography Cover Scale  O Absent  1 Present very small amounts or if more common of marginal quality  2 Present in moderate amounts, but not of highest quality  3 Present in moderate or endangered spp  high A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Mudflat and Open Water Class Quality  0 Absent <0.1ha (0.247 acres)  1 Low 0.1 to <1ha (0.247 acres)  2 Moderate 1 to <4ha (2.47 to 9.88 acres)  Microtopography Cover Scale  0 Absent  1 Present very small amounts or if more common of marginal quality  2 Present in moderate amounts, but not of highest quality or in small amounts of highest quality  |                     |                                     | mod          |  |  |
| 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-6)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh  Microtopography Cover Scale  Amphibian breeding pools  Microtopography Cover Scale  Microtopography Cover Scale  Amphibian breeding pools  Microtopography Cover Scale  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Present in moderate or greater amounts   |                     |                                     |              | The second secon | and the state of t |
| to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent < 5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Amphibian breeding pools  Microtopography Cover Scale  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality  Present in moderate or endangered spp  high A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Mudflat and Open Water Class Quality  0 Absent < 1 Low 0.1 to <1ha (0.247 to 2.47 acres)  2 Moderate 1 to <4ha (2.47 to 9.88 acres) or more  Microtopography Cover Scale  0 Absent  1 Present very small amounts or if more common of marginal quality  2 Present in moderate amounts, but not of highest quality or in small amounts of highest quality  3 Present in moderate or greater amounts   |                     |                                     |              |  |  |
| Extensive >75% cover (-5)  Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)  6d. Microtopography. Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Amphibian breeding pools  Microtopography Cover Scale  O Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Present in moderate or greater amounts   |                     |                                     |              |  |  |
| Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)  6d. Microtopography. Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Amphibian breeding pools  Microtopography Cover Scale  Microtopography Cover Scale  Microtopography Cover Scale  O Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Present in moderate or greater amounts  |                     |                                     | high         |  |  |
| Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)  6d. Microtopography. Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Amphibian breeding pools  Microtopography Cover Scale  Microtopography Cover Scale  Microtopography Cover Scale  O Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Resent in moderate or greater amounts  |                     |                                     |              |  |  |
| Nearly absent <5% cover (0) Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Amphibian breeding pools  Microtopography Cover Scale  Microtopography Cover Scale  Amphibian breeding pools  Microtopography Cover Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Rudflat and Open Water Class Quality  Absent <  Do Absent <  O Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Rudflat and Open Water Class Quality  O Absent <  O Present in moderate amounts or if more common of marginal quality  Present in moderate or greater amounts  |                     |                                     |              |  |  |
| 6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Amphibian breeding pools  Microtopography Cover Scale  Microtopography Cover Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Resent in moderate or greater amounts  |                     |                                     | -            |  | ion, or origanization opp  |
| Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Amphibian breeding pools  Microtopography Cover Scale  O Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Resent in moderate or greater amounts   |                     |                                     |              |  |  |
| Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Amphibian breeding pools  Microtopography Cover Scale  O Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Reserved.  |                     |                                     | -            |  | 20105)   |
| Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Amphibian breeding pools  Microtopography Cover Scale  O Absent  1 Present very small amounts or if more common of marginal quality  2 Present in moderate amounts, but not of highest quality or in small amounts of highest quality  3 Present in moderate or greater amounts   |                     |                                     |              |  |  |
| Amphibian breeding pools  Microtopography Cover Scale  O Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Present in moderate or greater amounts  |                     |                                     |              |  |  |
| 0 Absent 1 Present very small amounts or if more common of marginal quality 2 Present in moderate amounts, but not of highest quality or in small amounts of highest quality 3 Present in moderate or greater amounts  |                     |                                     |              |  |  |
| Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Present in moderate or greater amounts   |                     | Amphibian breeding pools            |              |  |  |
| of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Present in moderate or greater amounts  |                     |                                     |              |  | if more common   |
| quality or in small amounts of highest quality  Present in moderate or greater amounts   |                     |                                     |              |  |  |
| 3 Present in moderate or greater amounts   |                     |                                     | 2            |  |  |
|  |                     |                                     |              |  |  |
| I and of highest quality   |                     |                                     | 3            | and of highest quality   | amounts  |

| Site: ASP Fo         | Storia to Linka Rater(s): Beth Hollinder, Chris Davisson  | Date: 7/4/22  |
|----------------------|---|---|
|                      |   | wetland 1-AS  |
|                      | Metric 1. Wetland Area (size).  |   |
| 2 2                  | motifo ii Wotana / moa (oleo)i  |   |
| max 6 pts. subtotal  | Select one size class and assign score.   |   |
|                      | >50 acres (>20.2ha) (6 pts)   |   |
|                      | 25 to <50 acres (10.1 to <20.2ha) (5 pts)<br>10 to <25 acres (4 to <10.1ha) (4 pts)   |   |
|                      | 3 to <10 acres (1.2 to <4ha) (3 pts)  |   |
|                      | 0.3 to <3 acres (0.12 to <1.2ha) (2pts)   |   |
|                      | 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)<br><0.1 acres (0.04ha) (0 pts)   |   |
|                      |   |   |
| 1 3                  | Metric 2. Upland buffers and surrounding land use.  |   |
| max 14 pts subtotal  | 20. Calculate average buffer width. Select only one and assign score. Do not double check   |   |
| aut 14 pis subiotai  | 2a. Calculate average buffer width. Select only one and assign score. Do not double check.  WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)  |   |
|                      | MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)   |   |
|                      | NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)  |   |
|                      | VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)  2b. Intensity of surrounding land use. Select one or double check and average.  |   |
|                      | VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)  |   |
|                      | LOW. Old field (>10 years), shrub land, young second growth forest. (5)  MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallogue.  | ow field (3)  |
|                      | HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)  | W field. (5)  |
| 0 10                 | Metric 3. Hydrology.  |   |
| 1 17                 | metric of Trydrology.   |   |
| max 30 pts. subtotal | 3a. Sources of Water. Score all that apply.  3b. Connectivity. Score all  | that apply.   |
|                      | High pH groundwater (5) 100 year floodpla   | in (1)  |
|                      |   | lake and other human use (1)                            |
|                      |   | pland (e.g. forest), complex ('<br>rupland corridor (1) |
|                      | Perennial surface water (lake or stream) (5) 3d. Duration inundation/satu   | uration. Score one or dbl che                           |
|                      |   | ently inundated/saturated (4)                           |
|                      | >0.7 (27.6in) (3)   |   |
|                      | √ <0.4m (<15.7in) (1)  Seasonally satural   ated in upper 30cm (12in) (1)                           |
|                      | 3e. Modifications to natural hydrologic regime. Score one or double check and average.  |   |
|                      | None or none apparent (12)   Check all disturbances observed   Recovered (7)   ditch   point source (non:   | etormwater)   |
|                      | Recovered (7)   ditch   point source (nons)   | stofffwater)  |
|                      | Recent or no recovery (1) dike road bed/RR track  | C   |
|                      | weir dredging stormwater input other  |   |
|                      |   |   |
| 7 19                 | Metric 4. Habitat Alteration and Development.   |   |
| 1                    |   |   |
| nax 20 pts. subtotal | Substrate disturbance. Score one or double check and average.      None or none apparent (4)  |   |
|                      | Recovered (3)   |   |
|                      | Recovering (2)  |   |
|                      | Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.   |   |
|                      | Excellent (7)   |   |
|                      | Very good (6)   |   |
|                      | Good (5) Moderately good (4)  |   |
|                      | Fair (3)  |   |
|                      | Poor to fair (2)  |   |
|                      | Poor (1) 4c. Habitat alteration. Score one or double check and average.   |   |
|                      | None or none apparent (9) Check all disturbances observed   |   |
|                      | Recovered (6)   | oval  |
|                      | Recovering (3) grazing herbaceous/aquati  | ic bed removal  |
|                      | Recent or no recovery (1) clearcutting sedimentation selective cutting  |   |
| 19                   | woody debris removal arming   |   |
| 1                    | toxic pollutants nutrient enrichmen   | it  |
| subtotal this pa     | ge  |   |

| Site: AEP 1         | Fostoria to Lima Rate   | r(s):Beth H        | ollinder, Chris Davisson  | Date: 7/4/22   |
|---------------------|---|--------------------|---|--|
| 1.0                 | 2]  |                    |   | wetland 1-AJ   |
| 1                   | 1   |                    |   |  |
| subtotal firs       |   |                    |   |  |
| 0 10                | Metric 5. Special Wetla   | nas.               |   |  |
| nax 10 pts. subtota | one on an enactoppi) and score as indicated.                          |                    |   |  |
|                     | Bog (10)<br>Fen (10)  |                    |   |  |
|                     | Old growth forest (10)  |                    |   |  |
|                     | Mature forested wetland (5)   |                    |   |  |
|                     | Lake Erie coastal/tributary wetland                                   |                    |   |  |
|                     | Lake Erie coastal/tributary wetland Lake Plain Sand Prairies (Oak Ope |                    | ology (5)   |  |
|                     | Relict Wet Prairies (10)  | silligs) (10)      |   |  |
|                     | Known occurrence state/federal the                                    | reatened or end    | angered species (10)  |  |
|                     | Significant migratory songbird/water                                  | er fowl habitat or | usage (10)  |  |
|                     | Category 1 Wetland. See Question                                      |                    |   |  |
| -7 1:               | 🗸   Metric 6. Plant commur  | nities, int        | erspersion, microt  | opography.   |
| 2 1                 |   |                    |   |  |
| nax 20 pts. subtot  | oa. Wetland Vegetation Communities.                                   |                    | Community Cover Scale   | 474  |
|                     | Score all present using 0 to 3 scale.  Aguatic bed                    | 0                  | Absent or comprises <0.1ha (0.2<br>Present and either comprises sm    |  |
|                     | \ Emergent  | ,                  | vegetation and is of moderate   |  |
|                     | Shrub   |                    | significant part but is of low qua                                    |  |
|                     | Forest  | 2                  | Present and either comprises sig                                      |  |
|                     | Mudflats  |                    | vegetation and is of moderate   | quality or comprises a small   |
|                     | Open water  |                    | part and is of high quality   |  |
|                     | Other 6b. horizontal (plan view) Interspersion.                       | 3                  | Present and comprises significar<br>vegetation and is of high quality |  |
|                     | Select only one.  | •                  | vegetation and is of high quality                                     |  |
|                     | High (5)  | Narrative D        | escription of Vegetation Quality                                      |  |
|                     | Moderately high(4)  | low                | Low spp diversity and/or predom                                       |  |
|                     | Moderate (3)  |                    | disturbance tolerant native spe                                       |  |
|                     | Moderately low (2) Low (1)  | mod                | Native spp are dominant compor<br>although nonnative and/or distu     | A CONTRACTOR OF THE PROPERTY O |
|                     | None (0)  |                    | can also be present, and specie                                       |  |
|                     | 6c. Coverage of invasive plants. Refer                                |                    | moderately high, but generally  |  |
|                     | to Table 1 ORAM long form for list. Add                               |                    | threatened or endangered spp  |  |
|                     | or deduct points for coverage  Extensive >75% cover (-5)              | high               | A predominance of native specie                                       |  |
|                     | Moderate 25-75% cover (-3)  |                    | and/or disturbance tolerant nati<br>absent, and high spp diversity    |  |
|                     | Sparse 5-25% cover (-1)   |                    | the presence of rare, threatene                                       | The state of the s |
|                     | Nearly absent <5% cover (0)   |                    |   |  |
|                     | Absent (1)  |                    | Open Water Class Quality  |  |
|                     | 6d. Microtopography.  Score all present using 0 to 3 scale.           | 1                  | Absent <0.1ha (0.247 acres)<br>Low 0.1 to <1ha (0.247 to 2.47 acres)  | aron)  |
|                     | Vegetated hummucks/tussucks   | 2                  | Moderate 1 to <4ha (2.47 to 9.88                                      |  |
|                     | Coarse woody debris >15cm (6in)                                       | 3                  | High 4ha (9.88 acres) or more   |  |
|                     | Standing dead >25cm (10in) dbh  |                    |   |  |
|                     | Amphibian breeding pools  |                    | raphy Cover Scale   |  |
|                     |   | 0                  | Absent Present very small amounts or if                               | more common  |
|                     |   |                    | of marginal quality   | more common  |
|                     |   | 2                  | Present in moderate amounts, bu                                       | t not of highest   |
|                     |   |                    | quality or in small amounts of h                                      |  |
|                     |   | 3                  | Present in moderate or greater and of highest quality                 | mounts   |
|                     |   |                    | and of highest quality  |  |

Date: 7/4/22 Rater(s): Beth Hollinder, Chris Davisson Site: AEP Fostoria to Lima WEHARD I-AK Metric 1. Wetland Area (size). Select one size class and assign score. >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts) 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts) Metric 2. Upland buffers and surrounding land use. Calculate average buffer width. Select only one and assign score. Do not double check. max 14 pts WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) Metric 3. Hydrology. Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply. subtotal 3a. 100 year floodplain (1) High pH groundwater (5) Between stream/lake and other human use (1) Other groundwater (3) Part of wetland/upland (e.g. forest), complex (1) Precipitation (1) Part of riparian or upland corridor (1) Seasonal/Intermittent surface water (3) Duration inundation/saturation. Score one or dbl check. Perennial surface water (lake or stream) (5) 3d Semi- to permanently inundated/saturated (4) Maximum water depth. Select only one and assign score. Regularly inundated/saturated (3) >0.7 (27.6in) (3) Seasonally inundated (2) 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally saturated in upper 30cm (12in) (1) <0.4m (<15.7in) (1) 3e. Modifications to natural hydrologic regime. Score one or double check and average. Check all disturbances observed None or none apparent (12) point source (nonstormwater) Recovered (7) ditch filling/grading Recovering (3) tile road bed/RR track Recent or no recovery (1) dike dredging weir stormwater input Metric 4. Habitat Alteration and Development. Substrate disturbance. Score one or double check and average. max 20 pts subtotal None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select only one and assign score. Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average None or none apparent (9) Check all disturbances observed mowing shrub/sapling removal Recovered (6) herbaceous/aquatic bed removal grazing Recovering (3) sedimentation Recent or no recovery (1) clearcutting selective cutting dredging woody debris removal farming toxic pollutants nutrient enrichment

last revised 1 February 2001 jjm

ORAM v. 5.0 Field Form Quantitative Rating

| Site: AEP       | Fostoria to Lima   | Rater(s): Bett   | Hollinder, Chris Davisson   | Date: 7/4/22                   |
|-----------------|--|--|---|--------------------------------|
|                 |  |  | ,   | wetland 1-A                    |
| 110             | 7  |  |   |                                |
| subtotal fir    | rst nage   |  |   |                                |
|                 |  | I Mada   |   |                                |
| 0 10            | Metric 5. Specia   | ii wetiands.   |   |                                |
| v 10 ata aubte  |  | en an annual contract of   |   |                                |
| x 10 pts subto  | Check all that apply and score Bog (10)                  | as indicated.  |   |                                |
|                 | Fen (10)   |  |   |                                |
|                 | Old growth forest (10                                    | 0)   |   |                                |
|                 | Mature forested wetl                                     |  |   |                                |
|                 | Lake Erie coastal/trib                                   | outary wetland-unrestricted  | hydrology (10)  |                                |
|                 | Lake Erie coastal/trib                                   | outary wetland-restricted hy   | ydrology (5)  |                                |
|                 |  | iries (Oak Openings) (10)  |   |                                |
|                 | Relict Wet Prairies (1                                   | tate/federal threatened or e   | andangered energies (10)  |                                |
|                 | Significant migratory                                    | songbird/water fowl habita   | endangered species (10)   |                                |
|                 | Category 1 Wetland.                                      | See Question 1 Qualitativ  | ve Rating (-10)   |                                |
| 2 8.            |  |  | nterspersion, micro   | tonography                     |
| -61             | T Metric o. I failt o                                    | Johnnannies, i   | interspersion, micro  | topograpity.                   |
| ix 20 pts subto | otal 6a. Wetland Vegetation Comm                         | nunities Venetat   | ion Community Cover Scale   |                                |
|                 | Score all present using 0 to 3 s                         | cale. vegetat  | Absent or comprises <0.1ha (0                                     | 2471 acres) contiguous area    |
|                 | Aquatic bed  | 1  | Present and either comprises s                                    |                                |
|                 | Emergent   |  | vegetation and is of moderate                                     | e quality, or comprises a      |
|                 | Shrub  |  | significant part but is of low q                                  |                                |
|                 | Forest<br>Mudflats                                       | 2  | Present and either comprises s                                    |                                |
|                 | Open water   |  | vegetation and is of moderate                                     | e quality or comprises a small |
|                 | Other  | 3  | part and is of high quality  Present and comprises signification  | ant part or more of wetland's  |
|                 | 6b. horizontal (plan view) Inter                         |  | vegetation and is of high qual                                    |                                |
|                 | Select only one.   | · ·  |   |                                |
|                 | High (5)   |  | e Description of Vegetation Quality                               |                                |
|                 | Moderately high(4)                                       | low  |   |                                |
|                 | Moderate (3) Moderately low (2)                          | mod  | disturbance tolerant native sp<br>d Native spp are dominant compo |                                |
|                 | Low (1)  | mo   | although nonnative and/or dis                                     |                                |
|                 | None (0)   |  | can also be present, and spe-                                     |                                |
|                 | 6c. Coverage of invasive plant                           |  | moderately high, but generall                                     |                                |
|                 | to Table 1 ORAM long form for                            | -  | threatened or endangered sp                                       |                                |
|                 | or deduct points for coverage  Extensive >75% coverage   | higl   | A predominance of native spec<br>and/or disturbance tolerant na   |                                |
|                 | Moderate 25-75% co                                       |  | absent, and high spp diversity                                    |                                |
|                 | Sparse 5-25% cover                                       |  | the presence of rare, threater                                    |                                |
|                 | Nearly absent <5% of                                     | cover (0)  |   |                                |
|                 | Absent (1)   |  | and Open Water Class Quality                                      |                                |
|                 | 6d. Microtopography.<br>Score all present using 0 to 3 s | 0<br>scale. 1  | Absent <0.1ha (0.247 acres)<br>Low 0.1 to <1ha (0.247 to 2.47     | agrae)                         |
|                 | Vegetated hummuck  |  | Moderate 1 to <4ha (2.47 to 9.47                                  |                                |
|                 | O Coarse woody debris                                    |  | High 4ha (9.88 acres) or more                                     | 00 00:00)                      |
|                 | ∂ Standing dead >25cr                                    | m (10in) dbh   |   |                                |
|                 | 1 Amphibian breeding                                     | The state of the s | pography Cover Scale  |                                |
|                 |  | 0  | Absent  |                                |
|                 |  | 1  | Present very small amounts or<br>of marginal quality              | if more common                 |
|                 |  | 2  | Present in moderate amounts, t                                    | but not of highest             |
|                 |  | -  | quality or in small amounts of                                    |                                |
|                 |  | 3  | Present in moderate or greater                                    |                                |
|                 |  |  | and of highest quality  |                                |

| nently inundated/saturated (<br>lated/saturated (3)<br>ndated (2)<br>urated in upper 30cm (12in) ( | ated (3)           |
|--|--------------------|
| mated in upper 50cm (12m)  | per 300m (12m) (1) |
| onstormwater)<br>ack   | er)                |
| га   | rack               |

### etric 4. Habitat Alteration and Development.

4a. Substrate disturbance. Score one or double check and average None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select only one and assign score. Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average

None or none apparent (9) Check all disturbances observed Recovered (6) mowing shrub/sapling removal herbaceous/aquatic bed removal Recovering (3) grazing Recent or no recovery (1) clearcutting sedimentation selective cutting

woody debris removal

toxic pollutants

dredging

farming

nutrient enrichment

last revised 1 February 2001 jjm

| Site: 42P         | Fostoria to Lina Rate  | r(s): Beth   | Hollinder, Curis Davisson Date: 7/5/22   |
|-------------------|--|--|--|
|                   | 7  |  | Wetland 1-   |
| 10                |  |  |  |
| 20                |  |  |  |
| subtotal firs     | The second of th | •  |  |
| 0 70              | Metric 5. Special Wetla  | nds.   |  |
| 0 00              |  |  |  |
| x 10 pts. subtot  | Check all that apply and score as indicated.  Bog (10)   |  |  |
|                   | Fen (10)   |  |  |
|                   | Old growth forest (10)   |  |  |
|                   | Mature forested wetland (5)  |  |  |
|                   | Lake Erie coastal/tributary wetland  | -unrestricted hy   | drology (10)   |
|                   | Lake Erie coastal/tributary wetland  | A STATE OF THE STA | ology (5)  |
|                   | Lake Plain Sand Prairies (Oak Ope  | enings) (10)   |  |
|                   | Relict Wet Prairies (10) Known occurrence state/federal th   | reatened or end  | angered energies (10)  |
|                   | Significant migratory songbird/water   |  |  |
|                   | Category 1 Wetland. See Questio  |  |  |
| 0 10              | Martin C DI  |  | terspersion, microtopography.  |
| -2 18             | Wether of Flant commu  | iities, iiii   | terspersion, inforotopography.   |
| ax 20 pts. subtot | al 6a. Wetland Vegetation Communities.   | Vegetation   | Community Cover Scale  |
|                   | Score all present using 0 to 3 scale.  | 0  | Absent or comprises <0.1ha (0.2471 acres) contiguous are   |
|                   | Aquatic bed  | 1  | Present and either comprises small part of wetland's   |
|                   | \ Emergent   |  | vegetation and is of moderate quality, or comprises a  |
|                   | Shrub  |  | significant part but is of low quality   |
|                   | Forest<br>Mudflats   | 2  | Present and either comprises significant part of wetland's<br>vegetation and is of moderate quality or comprises a sma |
|                   | Open water   |  | part and is of high quality  |
|                   | Other  | 3  | Present and comprises significant part, or more, of wetland  |
|                   | 6b. horizontal (plan view) Interspersion.  |  | vegetation and is of high quality  |
|                   | Select only one.   |  |  |
|                   | High (5)   |  | Description of Vegetation Quality  |
|                   | Moderately high(4) Moderate (3)  | low  | Low spp diversity and/or predominance of nonnative or disturbance tolerant native species                              |
|                   | Moderately low (2)   | mod  | Native spp are dominant component of the vegetation,   |
|                   | Low (1)  |  | although nonnative and/or disturbance tolerant native spp  |
|                   | None (0)   |  | can also be present, and species diversity moderate to   |
|                   | 6c. Coverage of invasive plants. Refer   |  | moderately high, but generally w/o presence of rare  |
|                   | to Table 1 ORAM long form for list. Add<br>or deduct points for coverage   | high   | A predominance of native species, with nonnative spp   |
|                   | Extensive >75% cover (-5)  | iligii   | and/or disturbance tolerant native spp absent or virtually   |
|                   | Moderate 25-75% cover (-3)   |  | absent, and high spp diversity and often, but not always,  |
|                   | Sparse 5-25% cover (-1)  |  | the presence of rare, threatened, or endangered spp  |
|                   | Nearly absent <5% cover (0)  |  | 10 - 11 - 0 - 11   |
|                   | Absent (1) 6d. Microtopography.  | Mudilat and  | d Open Water Class Quality Absent <0.1ha (0.247 acres)   |
|                   | Score all present using 0 to 3 scale.  | 1  | Low 0.1 to <1ha (0.247 to 2.47 acres)  |
|                   | O Vegetated hummucks/tussucks  | 2  | Moderate 1 to <4ha (2.47 to 9.88 acres)  |
|                   | O Coarse woody debris >15cm (6in)  | 3  | High 4ha (9.88 acres) or more  |
|                   | Standing dead >25cm (10in) dbh   |  |  |
|                   | Amphibian breeding pools   |  | graphy Cover Scale   |
|                   |  | 0  | Absent Present very small amounts or if more common  |
|                   |  |  | of marginal quality  |
|                   |  | 2  | Present in moderate amounts, but not of highest  |
|                   |  |  | quality or in small amounts of highest quality   |
|                   |  | 3  | Present in moderate or greater amounts   |

clearcutting

selective cutting

toxic pollutants

woody debris removal

sedimentation

dredging

farming nutrient enrichment

last revised 1 February 2001 jjm

Recent or no recovery (1)

| ite: AEP Fostor      | 7a to Lima Rater  | (s): Beth t        | Collinder, Cluris Davisson Date: 7/5/22  |
|----------------------|---|--------------------|--|
|                      |   |                    | Wetland 1-1  |
| 24                   |   |                    |  |
| subtotal first page  | otric 5 Special Wetler  | , do               |  |
| 0 29                 | etric 5. Special Wetlar   | ius.               |  |
| 10 pts. subtotal Che | eck all that apply and score as indicated.                            |                    |  |
|                      | Bog (10)<br>Fen (10)  |                    |  |
|                      | Old growth forest (10)  |                    |  |
|                      | Mature forested wetland (5)   |                    |  |
|                      | Lake Erie coastal/tributary wetland-                                  | unrestricted hydr  | ology (10)   |
|                      | Lake Erie coastal/tributary wetland-                                  | restricted hydrolo |  |
|                      | Lake Plain Sand Prairies (Oak Oper                                    | nings) (10)        |  |
|                      | Relict Wet Prairies (10)  |                    |  |
|                      | Known occurrence state/federal three                                  | eatened or endar   | ngered species (10)  |
|                      | Significant migratory songbird/water Category 1 Wetland. See Question | 1 Qualitative Pa   | isage (10)   |
| . A NA               |   |                    |  |
| 1 28                 | etric 6. Plant commun   | ities, inte        | erspersion, microtopography.   |
| 20 pts subtotal 6a.  | Wetland Vegetation Communities.                                       | Vegetation C       | Community Cover Scale  |
| Sco                  | ore all present using 0 to 3 scale.                                   | 0                  | Absent or comprises <0.1ha (0.2471 acres) contiguous are   |
|                      | Aquatic bed   | 1                  | Present and either comprises small part of wetland's   |
|                      | 2 Emergent  |                    | vegetation and is of moderate quality, or comprises a  |
|                      | Shrub   | _                  | significant part but is of low quality   |
|                      | Forest  | 2                  | Present and either comprises significant part of wetland's   |
|                      | Mudflats  |                    | vegetation and is of moderate quality or comprises a small   |
|                      | Open water<br>Other   | 3                  | part and is of high quality  |
| 6b.                  | horizontal (plan view) Interspersion.                                 | 3                  | Present and comprises significant part, or more, of wetland<br>vegetation and is of high quality           |
|                      | lect only one.  | -                  | regetation and to or high quanty   |
|                      | High (5)  | Narrative De       | scription of Vegetation Quality  |
|                      | Moderately high(4)  | low                | Low spp diversity and/or predominance of nonnative or  |
|                      | Moderate (3)  |                    | disturbance tolerant native species  |
|                      | Moderately low (2)  | mod                | Native spp are dominant component of the vegetation,   |
|                      | Low (1)<br>None (0)   |                    | although nonnative and/or disturbance tolerant native spp  |
| 60                   | Coverage of invasive plants. Refer                                    |                    | can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare |
|                      | Table 1 ORAM long form for list. Add                                  |                    | threatened or endangered spp   |
| ore                  | deduct points for coverage  | high               | A predominance of native species, with nonnative spp   |
|                      | Extensive >75% cover (-5)   |                    | and/or disturbance tolerant native spp absent or virtually   |
|                      | Moderate 25-75% cover (-3)  |                    | absent, and high spp diversity and often, but not always,  |
|                      | Sparse 5-25% cover (-1)   |                    | the presence of rare, threatened, or endangered spp  |
|                      | Nearly absent <5% cover (0) Absent (1)                                | Mudflat and        | Open Water Class Quality   |
| 6d                   | Microtopography.  | 0                  | Absent <0.1ha (0.247 acres)  |
|                      | ore all present using 0 to 3 scale.                                   | 1                  | Low 0.1 to <1ha (0.247 to 2.47 acres)  |
|                      | Vegetated hummucks/tussucks   | 2                  | Moderate 1 to <4ha (2.47 to 9.88 acres)  |
|                      | O Coarse woody debris >15cm (6in)                                     | 3                  | High 4ha (9.88 acres) or more  |
|                      | Standing dead >25cm (10in) dbh  |                    |  |
|                      | Amphibian breeding pools  |                    | aphy Cover Scale   |
|                      |   | 0                  | Absent   |
|                      |   | 1                  | Present very small amounts or if more common of marginal quality   |
|                      |   |                    | Present in moderate amounts, but not of highest  |
|                      |   | 2                  |  |
|                      |   | 3                  | quality or in small amounts of highest quality  Present in moderate or greater amounts                     |

| Site: AEP          | Fostoria to Lima                                       | Rater(s): Beth Hollinder  | Chis Davisson Date: 7/8/22  |        |
|--------------------|--|---|---|--------|
|                    |  |   | Wetland 3   | 1-A    |
| 22                 | Metric 1. Wetland                                      | i Area (size).  |   |        |
| max 6 pts. subtot  | OCICOT OTIC SIZE GIAGO ATTA COLIGITA                   |   |   |        |
|                    | >50 acres (>20.2ha) (6<br>25 to <50 acres (10.1 t      |   |   |        |
|                    | 10 to <25 acres (4 to <                                |   |   |        |
|                    | 3 to <10 acres (1.2 to <                               |   |   |        |
|                    | 0.1 to <0.3 acres (0.04                                |   |   |        |
|                    | <0.1 acres (0.04ha) (0                                 |   |   |        |
| 7 9                | Metric 2. Upland                                       | buffers and surround  | ing land use.   |        |
| max 14 pts. subtot |  | th. Select only one and assign score. [   |   |        |
|                    |  | e 50m (164ft) or more around wetland p<br>rage 25m to <50m (82 to <164ft) around  |   |        |
|                    | NARROW. Buffers ave                                    | erage 10m to <25m (32ft to <82ft) aroun   | d wetland perimeter (1)   |        |
|                    |  | ers average <10m (<32ft) around wetlanger. Select one or double check and a       |   |        |
|                    |  | th or older forest, prairie, savannah, wild                                       |   |        |
|                    | LOW. Old field (>10 ye                                 | ears), shrub land, young second growth<br>Residential, fenced pasture, park, cons | forest. (5)   |        |
|                    |  | al, open pasture, row cropping, mining, o   |   |        |
| 11 20              | Metric 3. Hydrolo                                      | gy.   |   |        |
| max 30 pts subtot  | al 3a. Sources of Water. Score all                     | that apply 3b   | Connectivity. Score all that apply.   |        |
|                    | High pH groundwater (                                  |   | 100 year floodplain (1)   | - (4)  |
|                    | Other groundwater (3)  Precipitation (1)               |   | Between stream/lake and other human used Part of wetland/upland (e.g. forest), complete   |        |
|                    | Seasonal/Intermittent s                                | surface water (3)   | Part of riparian or upland corridor (1)   |        |
|                    | Perennial surface water 3c. Maximum water depth. Sele  |   | Duration inundation/saturation. Score one or dbl Semi- to permanently inundated/saturated | check. |
|                    | >0.7 (27.6in) (3)                                      | ct only one and assign score.   | Regularly inundated/saturated (3)   | (.,    |
|                    | 0.4 to 0.7m (15.7 to 27                                | .6in) (2)   | Seasonally inundated (2) Seasonally saturated in upper 30cm (12in)                        | (1)    |
|                    | 3e. Modifications to natural hydrometric descriptions. | ologic regime. Score one or double che  |   | (1)    |
|                    | None or none apparen                                   | t (12) Check all disturbances observed  |   |        |
|                    | Recovered (7) Recovering (3)                           | ditch   | point source (nonstormwater)  filling/grading   |        |
|                    | Recent or no recovery                                  |   | road bed/RR track   |        |
|                    | _  | weir  | dredging  |        |
|                    | <del></del>  | stormwater input  | other   |        |
| 9 20               | Metric 4. Habitat                                      | Alteration and Develo   | pment.  |        |
| max 20 pts. subtot |  | e one or double check and average.  |   |        |
|                    | None or none apparent                                  | 1 (4)   |   |        |
|                    | Recovering (2)   |   |   |        |
|                    | Recent or no recovery                                  |   |   |        |
|                    | 4b. Habitat development. Select Excellent (7)          | only one and assign score.  |   |        |
|                    | Very good (6)  |   |   |        |
|                    | Good (5)<br>Moderately good (4)                        |   |   |        |
|                    | √ Fair (3)   |   |   |        |
|                    | Poor to fair (2)                                       |   |   |        |
|                    | 4c. Habitat alteration. Score one                      | or double check and average.  |   |        |
|                    | None or none apparent                                  |   |   |        |
|                    | Recovered (6) Recovering (3)                           | mowing grazing  | shrub/sapling removal<br>herbaceous/aquatic bed removal                                   |        |
|                    | Recent or no recovery                                  |   | sedimentation   |        |
| 70                 | 9  | selective cutting   | dredging  |        |
| 6                  | 1  | woody debris removal toxic pollutants   | farming nutrient enrichment   |        |
| subtotal this      | s page   |   |   |        |
| st revised 1 Febr  | ruary 2001 iim   |   | 1   |        |

| ite: PZF F         | ostoria to Lima Rate   | er(s): Beth t       | lollinder, Chris Davisson Date: 7/5/20  |
|--------------------|--|---------------------|---|
| 29                 |  |                     | wetland 1-  |
| subtotal first p   | age  |                     |   |
| 0 29               | Metric 5. Special Wetla  | ands.               | .,  |
| x 10 pts. subtotal | Check all that apply and score as indicated.                       |                     |   |
|                    | Bog (10)<br>Fen (10)   |                     |   |
|                    | Old growth forest (10)   |                     |   |
|                    | Mature forested wetland (5)  |                     |   |
|                    | Lake Erie coastal/tributary wetlan                                 | d-unrestricted hy   | drology (10)  |
|                    | Lake Erie coastal/tributary wetlan                                 | d-restricted hydro  | plogy (5)   |
|                    | Lake Plain Sand Prairies (Oak Op                                   | penings) (10)       |   |
|                    | Relict Wet Prairies (10)   | brootoned           |   |
|                    | Known occurrence state/federal t Significant migratory songbird/wa | ter fowl habitat or | angered species (10)  |
|                    | Category 1 Wetland. See Questi                                     | on 1 Qualitative F  | Rating (-10)  |
| 2 2-               |  |                     |   |
| 3 32               | Metric o. Trant commu  | mues, m             | erspersion, microtopography.  |
| x 20 pts. subtotal | □ 6a. Wetland Vegetation Communities.                              | Vegetation          | Community Cover Scale   |
|                    | Score all present using 0 to 3 scale.                              | 0                   | Absent or comprises <0.1ha (0.2471 acres) contiguous area   |
|                    | Aquatic bed  | 1                   | Present and either comprises small part of wetland's  |
|                    | Z Emergent   |                     | vegetation and is of moderate quality, or comprises a   |
|                    | Shrub  | -                   | significant part but is of low quality  |
|                    | Forest   | 2                   | Present and either comprises significant part of wetland's  |
|                    | Mudflats Open water  |                     | vegetation and is of moderate quality or comprises a sma  |
|                    | Other  | 3                   | part and is of high quality   |
|                    | 6b. horizontal (plan view) Interspersion.                          | 3                   | Present and comprises significant part, or more, of wetland<br>vegetation and is of high quality                    |
|                    | Select only one.   | -                   | regetation and is or mgir quality   |
|                    | High (5)   | Narrative D         | escription of Vegetation Quality  |
|                    | Moderately high(4)   | low                 | Low spp diversity and/or predominance of nonnative or   |
|                    | Moderate (3)   |                     | disturbance tolerant native species   |
|                    | Moderately low (2) Low (1)   | mod                 | Native spp are dominant component of the vegetation,  |
|                    | None (0)   |                     | although nonnative and/or disturbance tolerant native spp<br>can also be present, and species diversity moderate to |
|                    | 6c. Coverage of invasive plants. Refer                             |                     | moderately high, but generally w/o presence of rare   |
|                    | to Table 1 ORAM long form for list. Add                            |                     | threatened or endangered spp  |
|                    | or deduct points for coverage                                      | high                | A predominance of native species, with nonnative spp  |
|                    | Extensive >75% cover (-5)  |                     | and/or disturbance tolerant native spp absent or virtually  |
|                    | Moderate 25-75% cover (-3)   |                     | absent, and high spp diversity and often, but not always,   |
|                    | Sparse 5-25% cover (-1) Nearly absent <5% cover (0)                | -                   | the presence of rare, threatened, or endangered spp   |
|                    | Absent (1)   | Mudflat and         | d Open Water Class Quality  |
|                    | 6d. Microtopography.   | 0                   | Absent <0.1ha (0.247 acres)   |
|                    | Score all present using 0 to 3 scale.                              | 1                   | Low 0.1 to <1ha (0.247 to 2.47 acres)   |
|                    | <ul><li>Vegetated hummucks/tussucks</li></ul>                      | 2                   | Moderate 1 to <4ha (2.47 to 9.88 acres)   |
|                    | Coarse woody debris >15cm (6in)                                    | 3                   | High 4ha (9.88 acres) or more   |
|                    | Standing dead >25cm (10in) dbh                                     | Microtor            | Josephy Cover Seels   |
|                    | Amphibian breeding pools   | Microtopog          | Absent  |
|                    |  | 1                   | Present very small amounts or if more common  |
|                    |  |                     | of marginal quality   |
|                    |  | 2                   | Present in moderate amounts, but not of highest   |
|                    |  |                     |   |
|                    |  | and the same        | quality or in small amounts of highest quality  Present in moderate or greater amounts                              |



# Headwater Habitat Evaluation Index Field Form



| Ono Environmental<br>Protection Agency  | HHEI Score (sum of metrics 1+2+3)  |   |  |  |
|---|--|---|--|--|
| RIVER BASE  LENGTH OF STREAM REACH (ft) 20  DATE 6/29/22 SCORER BH &  NOTE: Complete All Items On This F  | SIR S.B. Portage RIVER RIVER CODE DRAINAGE AREA (MF) I DRAINAGE AREA (MF | chosen du tructions fla                           |  |  |
| (Max of 32). Add total number of strype   |  | HHEI<br>Metric<br>Points<br>Substrate<br>Max = 40 |  |  |
| time of evaluation. Avoid plunge p > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]  COMMENTS 3 IACKES                                       | e the <u>maximum pool depth within the 61 meter (200 feet)</u> evaluation reach at the cools from road culverts or storm water pipes) (Check <i>ONLY</i> one box):    S cm - 10 cm [15 pts]   < 5 cm [5pts]   NO WATER OR MOIST CHANNEL [0pts]     MAXIMUM POOL DEPTH (centimeters): 7.6   | Pool Depth<br>Max = 30                            |  |  |
| 3. BANK FULL WIDTH (Measured  > 4.0 meters (> 13') [30 pts]  > 3.0 m - 4.0 m (> 9' 7"-13') [25 pt  > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20  COMMENTS S CEEX             |  | Bankfull<br>Width<br>Max=30                       |  |  |
| RIPARIAN WIDTH  L R (Per Bank)  Wide > 10m  Moderate 5-10m  Narrow < 5m  None  COMMENTS  FLOW REGIME (At Times  Stream Flowing  Subsurface flow with isolat  COMMENTS | This information must also be completed  OODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream*  FLOODPLAIN QUALITY (Most Predominant per Bank)  L R   | rop   |  |  |
| STREAM GRADIENT ESTIMATE  |  | 100 (6)   |  |  |

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

| GHEI PERFORMED? ☐ Yes ☑ No  | QHEI Score (If Yes, Attach Completed QHEI form)   |
|---|---|
| DOWNSTREAM DESIGNATED USE(S WWH Name: South Brouch Port CWH Name: |   |
|   | INCLUDING THE ENTIRE WATER SHED AREA. CLEARLY MARK THE SITE LOCATION.                         |
|   | NRCS Soil Map Page: NRCS Soil Map Stream Order:   |
|   | Township/city: Washington Township  |
| MISCELLANEOUS   | 0   |
| Base Flow Conditions? (Y/N): Y Date of                            | last precipitation: 6/26/22 Quantity: 0/12"   |
|   | unstream, & substrate photos recorded.  |
| Elevated Turbidity?(Y/N): Canopy                                  |   |
| Were samples collected for waterchemistry? (Y/                    | //N): N Lab Sample # or ID (attach results):  |
|   | Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)   |
|   | am (Y/N) 4 If not, explain:   |
|   |   |
| 7   | BIOLOGICAL OBSERVATIONS (Record all observations below)                                       |
|   | ed (if known):  |
|   | ecies observed (if known):  |
|   | observed (if known):  |
|   | N Species observed (if known):  |
| Comments Regarding Biology:                                       |   |
|   |   |
| DRAWING AND NARRATIVE   | DESCRIPTION OF STREAM REACH (This must be completed)  |
|   | features of interest for site evaluation and a narrative description of the stream's location |
| /   | FARM FIELD JN   |
| / forcinge  |   |
| 1 RN 9001 (1)   | V Pool (") & wetland veg.   |
| .ow   | wick bordering Stream for   |
| / / Mc  | W W approx. 1-3 meters  |
| / / Man culvert   | 12 12 chen side   |
| / medicall  |   |
| / / FAI   | RM FIELD  |

| ø |              | h     | io     |
|---|--------------|-------|--------|
| 1 | Oho<br>Prote | Emery | Agency |

## Headwater Habitat Evaluation Index Field Form



| Char Environmental Product Class Agency  HHEI Score (sum of metrics 1+2+3)   |
|--|
| SITE NAME/LOCATION ASP FOSTORIO TO LIMA - STYCOUL 1-003 (VINT to S.Br. Portage River)  SITE NUMBER RIVER BASIN S.B. PORTAGE KINDRIVER CODE DRAINAGE AREA (MP) 3.91 ALL  LENGTH OF STREAM REACH (ft) 270 LAT 41.125093 LONG -83.517813 RIVER MILE 0.3  DATE 6/29/22 SCORER BY 8 CD COMMENTS Although drainage area > 1 ALL WAS Chosen due to intermitted  |
| NOTE: Complete All Items On This Form - Refer to "Headwater Habitat Evaluation Index Field Manual" for Instructions  |
| STREAM CHANNEL MODIFICATIONS: NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY  |
| 1. SUBSTRATE (Estimate percent of every type present). Check ONLY two predominant substrate TYPE boxes.  (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B  TYPE PERCENT TYPE PERCENT  BLDR SLABS [16 pts] SILT [3 pt] BOULDER (>256 mm) [16 pts] SILT [3 pt] BEDROCK [16 pts] SILT [3 pts] COBBLE (65-256 mm) [12 pts] SUBSTRATE TYPES:  Total of Percentages of Bidr Slabs, Boulder, Cobble, Bedrock (A) SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES:  TOTAL NUMBER OF SUBSTRATE TYPES:  |
| 2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONL Y one box):    > 30 centimeters [20 pts]   |
| BANK FULL WIDTH (Measuredas the average of 3 - 4 measurements) (Check ONLY one box):  Bankfull   |
| > 4.0 meters (> 13') [30 pts]       > 1.0 m - 1.5 m (> 3' 3" - 4' 8")[15 pts]         > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]       ≤ 1.0 m (≤ 3' 3")[5 pts]         > 1.5 m - 3.0 m (> 4' 8" - 9' 7")[20 pts]  |
| COMMENTS 5' AVERAGE BANKFULL WIDTH (meters) 1.52   |
| This information must also be completed  |
| RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: RiverLeft (L) and Right (R) as looking downstream*  RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank)   |
| L R (Per Bank) L R L R   |
| Wide > 10m   |
| FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  |
| Stream Flowing Subsurface flow with isolated pools (interstitial)  COMMENTS  Moist Channel, isolated pools, no flow (intermittent)  Dry channel, no water (ephemeral)  |
| SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):           None         1.0         2.0         3.0           0.5         1.5         2.5         >3   |
| STREAM GRADIENT ESTIMATE  Flat (0.5 \$\$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\ |

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

| QHEI PERFORMED? Yes No QHEI Score (If Yes, Attach Completed QHEI form)   |
|--|
| DOWNSTREAM DESIGNATED USE(S)    WWH Name: South Branch Portage River   Distance from Evaluated Stream   O.3 miles     CWH Name:   Distance from Evaluated Stream   Di |
| EWH Name: Distance from Evaluated Stream   |
| MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.   |
| USGS Quadrangle Name: Bloomdale NRCS Soil Map Page: NRCS Soil Map Stream Order:  |
| county: Harcock Township/City: Washington Township   |
| MISCELLANEOUS  |
| Base Flow Conditions? (Y/N): 4 Date of last precipitation: 6/26/22 Quantity: 0.12/1  |
| Photo-documentation Notes: Upstream, downstream, and substrate photos recorded.  |
| Elevated Turbidity?(Y/N):  |
| Were samples collected for waterchemistry? (Y/N): Name Lab Sample # or ID (attach results):  |
| Field Measures:Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)   |
| Is the sampling reach representative of the stream (Y/N) If not, explain:  |
| Additional comments/description of pollution impacts:  |
| BIOLOGICAL OBSERVATIONS  |
| (Record all observations below)  |
| Fish Observed? (Y/N) _ O Species observed (if known): Frogs or Tadpoles Observed? (Y/N) _ O Species observed (if known):   |
| Salamanders Observed? (Y/N) _ Species observed (if known):   |
| Aquatic Macroinvertebrates Observed? (Y/N) _ \( \subseteq \) Species observed (if known):  |
|  |
| Comments Regarding Biology:  |
|  |
| DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)   |
| Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  FARM FIELD VN   |
| Trimine Tiend  |
| COSSLE POOLS, ~3"  WETLAND VEG BORDERING STREAM FOR APPROX. I-3 METERS ON EACH SIDE.  NUCL THROUGHOUT NUCL THROUGHOUT  |
| FARM FIELD   |

| 0      | hio         |
|--------|-------------|
| Protez | merpenensi. |

# Headwater Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3

| ш |    |  |
|---|----|--|
| ш | 01 |  |
| ш | 21 |  |

| Protection Agency  | HHEI Score (sum of metrics 1+2+3)  |   |
|--|--|---|
| SITE NUMBER RIVER BASIN S. Br. Porter LENGTH OF STREAM REACH (ft) 200 LAT 41. I DATE 6/19/12 SCORER BH & CO COM  |  | 8   |
|  | "Headwater Habitat Evaluation Index Field Manual" for Instruction of the Covering Transport of the Recent of the R |   |
| 1. SUBSTRATE (Estimate percent of every type property (Max of 32). Add total number of significant substrated by the significa | TYPE  SILT [3 pt]  LEAF PACKWOODY DEBRIS [3 pts]  FINE DETRITUS [3 pts]  CLAY OF HARDPAN [0 pt]  MUCK [0 pts]  ARTIFICIAL [3 pts]  | HHEI<br>Tetric<br>oints<br>ubstrate<br>lax = 40 |
| SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPE   | PES: O TOTAL NUMBER OF SUBSTRATE TYPES: Ool depth within the 61 meter (200 feet) evaluation reach at the   | ol Dept<br>lax = 30                             |
| > 4.0 meters (> 13') [30 pts]<br>> 3.0 m - 4.0 m (> 9' 7"-13') [25 pts]<br>> 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]  | > 1.0 m -1.5 m (> 3' 3" - 4' 8")[15 pts]  ≤ 1.0 m (≤ 3' 3")[5 pts]   | ankfull<br>Width<br>lax=30                      |
| COMMENTS This in   | AVERAGE BANKFULL WIDTH (meters)  |   |
| RIPARIAN ZONE AND FLOODPLAIN QUAI   RIPARIAN WIDTH   | LITY * NOTE: River Left (L) and Right (R) as looking downstream*  LOODPLAIN QUALITY (Most Predominant per Bank)  L R  Mature Forest, Wetland Conservation Tillage mmature Forest, Shrub or Old Field Urban or Industrial Residential, Park, New Field Open Pasture, Row Crop fenced Pasture Mining or Construction   |   |
| FLOW REGIME (At Time of Evaluation) (C Stream Flowing Subsurface flow with isolated pools (interstitiae COMMENTS SINUOSITY (Number of bends per 61 m (20   | Moist Channel, isolated pools, no flow (intermittent)  Dry channel, no water (ephemeral)   |   |
| None 1.0 0.5 1.5  STREAM GRADIENT ESTIMATE   | 2.0 3.0<br>2.5 >3  |   |
| Disease and Alignment   Imposition   | Severe (10 6/100 ft) Moderate to Severe Severe (10 6/100 ft)   |   |

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

|           | QHEI PERFORMED? ☐ Yes ☑ No QHEI Score (If Yes, Atta   | ch Completed QHEI form)                                       |
|-----------|---|---|
|           | DOWNSTREAM DESIGNATED USE(S)  |   |
| □ CWH     | H Name: South Branch Portage River  | Distance from Evaluated Stream 3,2 Mil                        |
| □ EWH     | H Name:   | Distance from Evaluated Stream Distance from Evaluated Stream |
|           | MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED ARE  |   |
| USGS Q    | Quadrangle Name: Arcadia NRCS Soil Map Page:  | ,   |
|           | Harcock Township/City: Cas  |   |
|           | MISCELLANEOUS   |   |
| Base Flo  | low Conditions? (Y/N): 4 Date of last precipitation: 6/26/22  | Quantity: 0.12"   |
|           | documentation Notes: Upsticam, downstream, and Substra  |   |
|           | ed Turbidity?(Y/N):N  |   |
| Were sa   | samples collected for waterchemistry?(Y/N): Nab Sample # or ID (a   | attach results):  |
| Field Me  | leasures:Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) _  | Conductivity (umhos/cm)                                       |
|           | sampling reach representative of the stream (Y/N) If not, explain:  |   |
|           | -   |   |
|           | anal comments/description of pollution impacts:   |   |
|           | BIOLOGICAL OBSERVATIONS (Record all observations below)   |   |
| Fish Obs  | bserved? (Y/N) N Species observed (if known):   |   |
| Frogs or  | or Tadpoles Observed? (Y/N)   |   |
| Salaman   | anders Observed? (Y/N) N Species observed (if known):   |   |
| Aquatic I | c Macroinvertebrates Observed? (Y/N) N Species observed (if known):   |   |
|           | ents Regarding Biology:   |   |
|           |   |   |
|           | DRAWING AND NADDATIVE DESCRIPTION OF STREAM   | DEACH /This is a second                                       |
|           | DRAWING AND NARRATIVE DESCRIPTION OF STREAM F<br>Include important landmarks and other features of interest for site evaluation and |   |
|           | N FARM FIELD  |   |
|           | IV. Ban   | AND WEG ALONG BOTH BANKS                                      |
|           | BORDERED BY APPROX 1-2 N OF WET   | 1/  |
| LOW       | 3"POOL W W 1-2 NV   | well?   |
| LOV       | W MUCK (11 800)   |   |
|           | W C3 W  |   |
|           | WWW   |   |
|           |   |   |
|           | FARM FIELD  |   |

| Headwater Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)   | 55  |
|---|---|
| SITE NAME/LOCATIONKEP_FOSTORIA TO LIMA — STREAM L-007 (UNT TO ROCK)  SITE NUMBER RIVER BASIN _ROCKY FOID RIVER CODE DRAINAGE AREA (MP)  LENGTH OF STREAM REACH (ft) 470 LAT 41.10721 LONG -83.574589 RIVER MILE .  DATE 6130/12 SCORER BH &CD COMMENTS  NOTE: Complete All Items On This Form - Refer to "Headwater Habitat Evaluation Index Field Manual" for I  STREAM CHANNEL MODIFICATIONS: NONE/NATURAL CHANNEL RECOVERED RECOVERING WRECENT OF THE CONTROL OF THE C | 0.5<br>1.3  |
| 1. SUBSTRATE (Estimate percent of every type present). Check ONLY two predominant substrate TYPE boxes.  (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B  TYPE PERCENT TYPE  BLDR SLABS [16 pts] SILT [3 pt] 20 1/2  BOULDER (>256 mm) [16 pts] LEAF PACK/WOODY DEBRIS [3 pts]  COBBLE (65-256 mm) [12 pts] CLAY or HARDPAN [0 pt]  GRAVEL (2-64 mm) [9 pts] MUCK [0 pts] ARTIFICIAL [3 pts]  Total of Percentages of Bidr Slabs, Boulder, Cobble, Bedrock (A)  SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES:  | HHEI<br>Metric<br>Points<br>Substrate<br>Max = 40 |
| 2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):    > 30 centimeters [20 pts]   | Pool Depth<br>Max = 30                            |
| 3. BANK FULL WIDTH (Measuredas the average of 3 - 4 measurements) (Check ONL Yone box):    > 4.0 meters (> 13') [30 pts]  | Bankfull<br>Width<br>Max=30                       |
| This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstress  RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank)  L R (Per Bank) L R  Wide >10m Mature Forest, Wetland Conservation Tillag  Moderate 5-10m Immature Forest, Shrub or Old Field Urban or Industrial  Narrow <5m Residential, Park, New Field Open Pasture, Rov  None Fenced Pasture Mining or Construct  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing Moist Channel, isolated pools, no flow (internion)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):  None 1.0 2.0 3.0  0.5 1.5 2.5 3  STREAM GRADIENT ESTIMATE  | Crop  |
| Flat (0.5 6/100 ft) Flat to Moderate Moderate (2 6/100 ft) Moderate to Severe Severe  | 0 fs/100 fs)                                      |

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

| (           | QHEI PERFORMED? ☐ Yes ☑ No QHEI Score (If Yes, Attach Completed QHEI form)  |
|-------------|---|
| ī           | DOWNSTREAM DESIGNATED USE(S)  |
| ☐ CWH N     | Name: Rocky Ford  |
| □ EWH N     | lame: Distance from Evaluated Stream  lame: Distance from Evaluated Stream  |
|             | MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.                                |
| USGS Qua    | adrangle Name: Arcadia NRCS Soil Map Page: NRCS Soil Map Stream Order:  |
|             | tancock Township/City: Cass Township  |
|             | MISCELLANEOUS   |
|             | Conditions? (Y/N): Y Date of last precipitation: 6/26/2022 Quantity: 0.12"  |
|             | cumentation Notes: Upstream, downstream, and substrate photos recorded.   |
|             | Turbidity?(Y/N): N Canopy (% open): 100/.   |
|             |   |
|             | ples collected for waterchemistry? (Y/N): Lab Sample # or ID (attach results):  |
|             | sures:Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)   |
| Is the sam  | pling reach representative of the stream (Y/N) <u>Y</u> If not, explain:  |
| A dditional | comments (description of pollution impacts)   |
| Additional  | comments/description of pollution impacts:  |
| -           | BIOLOGICAL OBSERVATIONS   |
|             | (Record all observations below)   |
| Fish Obse   | rved? (Y/N) N Species observed (if known):  |
|             | adpoles Observed? (Y/N) _ Y _ Species observed (if known):  |
|             | ers Observed? (Y/N) N Species observed (if known):  |
| Aquatic Ma  | acroinvertebrates Observed? (Y/N) N Species observed (if known):  |
| Comments    | Regarding Biology:  |
|             |   |
|             | DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)  |
|             | Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location |
|             | RESIDENTIAL   |
|             | 5   3   7   |
|             | SMALL DIPOLIAN BUFFET & TARM FIELD  |
|             |   |
| FLOW        | J I month some  |
|             | small riparian buffer & accomed street  |
|             | small riparian buffer & gecomes stream controls   |
|             | RESIDENTIAL   |
|             | RESIDEN   |

## **ChioEPA**

# Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 44

| Stream & Location: ASP Fostoria to Lima-Stream 1-008 RM: 3.0Date: 6130122   |
|---|
| UNT to Rocky Ford Scorers Full Name & Affiliation: Beth Hollinder, Chris Davisson, ES   |
| River Code: STORET #: Lat./Long.: 4  . 018914 183.602056 Office verified location   |
| 1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present Check ONE (Or 2 & average)  |
| BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE ORIGIN ORIGIN QUALITY  BLDR /SLABS [10]  |
| 2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.  UNDERCUT BANKS [1] POOLS > 70cm [2] OXBOWS, BACKWATERS [1] MODERATE 25-75% [7]  L OVERHANGING VEGETATION [1] ROOTWADS [1] AQUATIC MACROPHYTES [1] SHALLOWS (IN SLOW WATER) [1] BOULDERS [1] LOGS OR WOODY DEBRIS [1] NEARLY ABSENT <5% [1]  ROOTMATS [1] Comments   |
| 3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)  SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY  HIGH [4]   |
| 4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)  RIPARIAN WIDTH  FLOOD PLAIN QUALITY  RIPARIAN QUALITY  RIPARIAN WIDTH  RIPARIAN WIDTH  RIPARIAN WIDTH  RIPARIAN WIDTH  RIPARIAN WIDTH  RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)  RIPARIAN WIDTH  RIPARIAN ZONE  RIPARIAN ZONE  FOND  RIPARIAN ZONE  RIPARIAN ZONE  RIPARIAN WIDTH  RIPARIAN ZONE  RIPARIAN WIDTH  RIPARIAN ZONE  RIPARIAN WIDTH  RIPARIAN ZONE  RIPARIAN WIDTH  RIPARIAN ZONE  RIPARIAN ZONE  RIPARIAN ZONE  RIPARIAN WIDTH  RIPARIAN ZONE  
| Maximum 10  |
| Solution   Pool   Poo  |
| Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average).   RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS  BEST AREAS > 10cm [2] MAXIMUM > 50cm [2] STABLE (e.g., Cobble, Boulder) [2] NONE [2]  BEST AREAS 5-10cm [1] MOD. STABLE (e.g., Large Gravel) [1] LOW [1]  BEST AREAS < 5cm Metric=0] MAXIMUM < 50cm [1] UNSTABLE (e.g., Fine Gravel, Sand) [0] MODERATE [0] Riffle / Run Maximum Maximum  |
| 6] GRADIENT ( 11.5 ft/mi) UVERY LOW - LOW [2-4]  DRAINAGE AREA (2.0  mi²) HIGH - VERY HIGH [10-6]  8  9  9  9  9  9  9  9  9  9  9  9  9  |

| Comment RE: Reach consistency/ Is reach typical of steam?, Recreation/ Observed - Inferred, Other/ Sampling observations, Concerns, Access directions, etc. | ### INDESTORES  WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPS-CONSTRUCTION-SEDIMENT LOGGING-LIRRIGATION / COOLING  BANK / EROSION / SURFACE FALSE BANK / MANURE / LAGOON WASH H20 / TILE / H20 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME  LEGACY Tree: | HARDAN WISCUTE MUCK & SILT FORESTED  FORESTED |
|---|--|---|
| v/ Observed - Inferred, Other/ San  | Circle some & COMMENT  WW  HAR  BMI  CE  CE  CE  CE  CE  CE  CE  CE  CE  C   |   |
| reach typical of steam?, Recreation   | DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED   | LA TIMIN COPRIDOR, CANDRESTED                 |
| oninen KE. Reach consistency is   | BJAESTHETICS  □ NUISANCE ALGAE  □ INVASIVE MACROPHYTES  □ EXCESS TURBIDITY  □ DISCOLORATION  □ FOAM / SCUM  □ OIL SHEEN  □ TRASH / LITTER  □ NUISANCE ODOR  □ SLUDGE DEPOSITS  □ SLUDGE DEPOSITS  □ CSOS/SSOS/OUTFALLS  47/ON AREA DEPTH   | FORESTED   COVERHANDING                       |
| ALL that apply STAGE 1st sample pass-2nd HIGH UP NORMAL   | 1.5   ANCE   DRY   | Stream Drawing: For Fore                      |

## **ChioEPA**

# Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 49.5

| Stream & Location: ASP Fostoria to Lima - Stream 1-009 RM: 3.3 Date: 61 301 22   |
|--|
| UNT to Rocky Ford Scorers Full Name & Affiliation: Beth Holling, Chris Davisson, ES  |
| River Code: STORET #: Lat./ Long.: 41.096624/83.609582 Office verified location  |
| 1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present  BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE   UIMESTONE [1]   HARDPAN [4]   UIMESTONE [1]   MODERATE [-1]   MODERA |
| 2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools    UNDERCUT BANKS [1]  |
| 3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)  SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY  HIGH [4]  |
| 4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)  River right looking downstream RIPARIAN WIDTH RIPARIAN |
| Solution   Pool   Continue   Pool     |
| Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:  RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS  BEST AREAS > 10cm [2] BEST AREAS 5-10cm [1] BEST AR |
| 6] GRADIENT (\(\(\(\(\(\)\)\)\) \(\(\)\) VERY LOW - LOW [2-4]  DRAINAGE AREA  (2.5' mi²)   HIGH - VERY HIGH [10-6]  WPOOL: 50 %GLIDE:  Gradient  Maximum  10  NRUN: 20 %RIFFLE: 30   |

| Comment RE: Reach consistency/ Is reach typical of steam?, Recreation/Observed - Inferred, Other/Sampling observations, Concerns, Access directions, etc.                  | WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING ÆANK / EROSION / SURFACE FALSE BANK / MANURE / LAGOON WASH H <sub>2</sub> 0 / TILE / H <sub>2</sub> 0 TABLE ACID / MINE / QUARRY / FLOW ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT ATMOSPHERE / DATA PAUCITY  E gacy Tree: | SMALL PIPAPIN BUTTER   |
|--|--|--|
| Observed - Inferred, Other/ Sa   | Circle some & COMMENT  WA  HA  HA  BM  LO  G  G  M  N  N  N  A   | SILT/SAWD WSCW USCW USCW   |
| s reach typical of steam?, Recreation/   | DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED   | TER OD BRIDGE  |
| omment RE: Reach consistency/ Is   | BJ AESTHETICS  □ NUISANCE ALGAE □ INVASIVE MACROPHYTES □ EXCESS TURBIDITY □ DISCOLORATION □ FOAM / SCUM □ OIL SHEEN □ TRASH / LITTER □ NUISANCE OBOR □ SLUDGE DEPOSITS □ SLUDGE DEPOSITS □ CSOS/SSOS/OUTFALLS  ATION AREA DEPTH POOL: □ >100ft² □ >3ft   | UNFORESTED UNFORESTED UTILITY CORRIDOR SILTIFAND SILTIFA |
| AJ SAMPLED REACH   Co     Check ALL that apply   METHOD   STAGE     BOAT   Stsample pass- 2nd     WADE   HIGH       L. LINE   UP       OTHER   NORMAL       DISTANCE   LOW | RITY Passs 2nd n n (CTB   CM   CM   CM   CM   CM   CM   CM   CM  | Stream Drawing:  |

|   | M   | odified Class 11 PHW                                  |
|---|---|---|
| hio<br>Ohio Environmental<br>Protection Agency  | Headwater Habitat Evaluation Index Fi<br>HHEI Score (sum o  | eld Form<br>of metrics 1+2+3)                         |
| SITE NUMBER   | ASP FOSTORIA to Line Stream 1-010 (UM RIVER BASIN BLOCKOUT FIVE RIVER CODE  | PRAINAGE AREA (m²)                                    |
| (Max of 32). Ad TYPE BLDR SLAE BOULDER BEDROCK COBBLE (6  | (>256 mm) [16 pts]  | PERCENT Points  [3 pts] So                            |
| Bldr Slabs, Bould SCORE OF TWO MOST  2. Maximum Pootime of evaluati > 30 centimeters > 22.5 - 30 cm [ | PREDOMINATE SUBSTRATE TYPES:  I Depth (Measure the maximum pool depth within the 61 meter (200 feet) etc. A void plunge pools from road culverts or storm water pipes) (Check ON [20 pts] 5 cm - 10 cm [15 pts] 30 pts] | valuation reach at the LY one box):  Pool Dep Max = 3 |
| > 10 - 22.5 cm [<br>COMMENTS  | 25 pts] NO WATER OR MOIST CHA   |   |
| > 4.0 meters (><br>> 3.0 m - 4.0 m  | IDTH (Measuredas the average of 3 - 4 measurements) (Check ONLY of  | nebox): Bankfu  |
| COMMENTS  | 5' AVERAGE BANKFULL   | WIDTH (meters) 1.52                                   |
| 0104.014  | This information must also be completed   | ) as leating downstrans.                              |
| L R (Pe   | rate 5-10m   Immature Forest, Shrub or Old Field  | per Bank)  Conservation Tillage                       |
| Stream FI Subsurfa COMMEN   | be flow with isolated pools (interstitial)  | d pools, no flow (intermittent) (ephemeral)  3.0 >3   |

Moderate (2 &/100 &)

Moderate to Severe

Severe (10 &100 %)

STREAM GRADIENT ESTIMATE
Flat (0.5 %100 M) Flat to Moderate

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

|   | Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream                 |
|---|--|
| MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE W  | VATERSHED AREA. CLEARLY MARK THE SITE LOCATION.  |
| USGS Quadrangle Name: Find lay NRCS Soil  | Map Page: NRCS Soil Map Stream Order:  |
| County: HONCOCK COUNTY TOWNShip/C   | my: Liberty Township   |
| MISCELLANEOUS   |  |
| Base Flow Conditions? (Y/N): 4 Date of last precipitation: 6/2  | 26/22 Quantity: 0,12"  |
| Photo-documentation Notes: Upstream, downstream, s  | 2 substrate photos recorded  |
| Elevated Turbidity?(Y/N): N Canopy (% open): 10%  |  |
| Were samples collected for water chemistry? (Y/N): Lab Sa   | mple # or ID (attach results):   |
| Field Measures:Temp (*C) Dissolved Oxygen (mg/l) Is the sampling reach representative of the stream (Y/N) $\underline{\mathcal{Y}}$ If not, exp   |  |
| Additional comments/description of pollution impacts:   |  |
| BIOLOGICAL OBSERVAT<br>(Record all observations be  |  |
| Fish Observed? (Y/N) N Species observed (if known):   |  |
| Frogs or Tadpoles Observed? (Y/N) $\underline{\underline{\Upsilon}}$ Species observed (if known)  |  |
| Salamanders Observed? (Y/N) _ /\ Species observed (if known):   |  |
|   | rknown):   |
| Aquatic Macroinvertebrates Observed? (Y/N) 4 Species observed (if   |  |
|   |  |
| Aquatic Macroinvertebrates Observed? (Y/N) Y Species observed (if Comments Regarding Biology:  DRAWING AND NARRATIVE DESCRIPTION OF Include important landmarks and other features of interest for site | STREAM REACH (This <u>must</u> be completed)   |
| Aquatic Macroinvertebrates Observed? (Y/N) Y Species observed (if Comments Regarding Biology:  DRAWING AND NARRATIVE DESCRIPTION OF Include important landmarks and other features of interest for site | STREAM REACH (This <u>must</u> be completed) evaluation and a narrative description of the stream's location |
| Aquatic Macroinvertebrates Observed? (Y/N) Y Species observed (if Comments Regarding Biology:  DRAWING AND NARRATIVE DESCRIPTION OF Include important landmarks and other features of interest for site | STREAM REACH (This must be completed) evaluation and a narrative description of the stream's location        |

| 6    | h       | io     |
|------|---------|--------|
| Ohio | Environ | Agency |

# Headwater Habitat Evaluation Index Field Form

| Г |     |   |
|---|-----|---|
| 1 | 4   |   |
| ч | -11 | ╝ |

| Onio (investmental<br>Protection Agency  | HHEI Score (sum of metrics 1+2+3)  |
|--|--|
| LENGTH OF STREAM REACH (ft) 200 LAT 41.0 DATE 7/1/22 SCORER BH &CD COMM. NOTE: Complete All Items On This Form - Refer to "  | MA-Stream 1-011 (UNT to Blanchard River)  drive river code DRAINAGE AREA (mF) 1.54  1  |
| SUBSTRATE (Estimate percent of every type pre  | Esent). Check ONLY two predominant substrate TYPE boxes. etypes found (Max of 8). Final metric score is sum of boxes A & B  TYPE SILT [3 pt] LEAF PACK/WOODY DEBRIS [3 pts] FINE DETRITUS [3 pts] CLAY or HARDPAN [0 pt] ARTIFICIAL [3 pts]  (A)  (B)  A + B   |
| 2. Maximum Pool Depth (Measure the maximum potentime of evaluation. Avoid plunge pools from road cultime of evaluation.  3. Description of the provided states and the average of the pool | S cm - 10 cm [15 pts]   S cm - 10 cm [5pts]   S cm   S cm |
|  | ormation must also be completed  |
| RIPARIAN ZONE AND FLOODPLAIN QUALI   RIPARIAN WIDTH  | OODPLAIN QUALITY (Most Predominant per Bank)  L R  ature Forest, Wetland   |
| None   | 2.0 2.5 3.0<br>2.5 >3  |

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

| QHEI                   | PERFORMED? TY                    | s No QHEI Sco        | ore (If Yes, A                                | Attach Completed QHEI fo    | orm)                     |
|------------------------|----------------------------------|----------------------|---|-----------------------------|--------------------------|
| DOWN MATTER DOWN Name: | NSTREAM DESIGNATE<br>Blanchard 1 | D USE(S)             |   | Distance fromEvaluate       | d Stream <u>O.8 Mile</u> |
|                        |                                  |                      | NG THE ENTIRE WATER SHED                      |                             |                          |
|                        | 1                                |                      | NRCS Soil Map Page:                           | /                           |                          |
|                        |                                  |                      | _ Township/City: / i                          |                             |                          |
|                        | CELLANEOUS                       |                      |   |                             | •                        |
| Base Flow Con          | nditions? (Y/N):                 | Date of last preci-  | pitation: 6/26/22                             | Quantity: Oil               | 2"                       |
|                        |                                  |                      | stream, 2 subst                               |                             |                          |
|                        | dity?(Y/N):                      |                      |   | , , , , , ,                 |                          |
|                        |                                  |                      | Lab Sample # or II                            | (attach results):           |                          |
|                        |                                  |                      | mg/l) pH (S.U.                                |                             |                          |
|                        |                                  |                      | 4 If not, explain:                            |                             |                          |
|                        |                                  |                      |   |                             |                          |
| Fish Observed          | 1? (Y/N) N Speci                 | (Deport              | CAL OBSERVATIONS all observations below) wn): |                             |                          |
| Frogs or Tadpo         | oles Observed? (Y/N)             | Species obs          | erved (if known):                             |                             |                          |
|                        |                                  |                      | (if known):                                   |                             |                          |
|                        |                                  |                      | cies observed (if known):                     |                             |                          |
|                        |                                  |                      |   |                             |                          |
|                        |                                  |                      |   |                             |                          |
| DE                     | DAWING AND NAF                   | RATIVE DESC          | RIPTION OF STREAM                             | A REACH (This mus           | et he completed)         |
| Incl                   | lude important landmarks         | and other features o | of interest for site evaluation a             | and a narrative description | of the stream's location |
|                        | RESTED                           | KN                   | UNFORESTED (                                  | TILITY COPRIDOT             | RESTED                   |
|                        | FOR S                            |                      |   | 1                           | 500                      |
|                        |                                  | v v                  | WETLAND                                       | >                           | L                        |
|                        |                                  | 2" 300L              | V   | W W                         |                          |
| LOW                    | -7                               |                      | DRY CHANEL                                    | nice (2"                    | Paar                     |
|                        | 2)                               | V WETLAN             | 1.  | ww                          | 20                       |
| 5                      | PESTED                           |                      | STED UTILITY COI                              |                             | FORESTED                 |
| TU                     | 1-10-1-10                        | 0.0,0,0              | - m mile                                      |                             |                          |

# **ChioEPA**

# Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 40.5

| Stream & Location: ASP FOSTORIA to Lima - Stream 1-012 RM: 0.7Date: 71 1 22  |
|--|
| _ UNT to Blanchard River Scorers Full Name & Affiliation: Beth Hollinger, Chris Davisson, ES   |
| River Code: - STORET #: Lat./ Long.: 18 Office verified  |
| 1] SUBSTRATE Check ONLY Two substrate TYPE BOXES, estimate % or note every type present  BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE   LIMESTONE [1]   HARDPAN [4]   LIMESTONE [1]   HEAVY [-2]    BOULDER [9]   DETRITUS [3]   MILLS [1]   SILT   MODERATE [-1]   Substrate    GRAVEL [7] 30   SILT [2]   SO   HARDPAN [0]   FREE [1]    GRAVEL [7] 30   ARTIFICIAL [0]   SANDSTONE [0]   SANDSTONE [0]   MODERATE [-1]    NUMBER OF BEST TYPES: 4 or more [2] sludge from point-sources)   LACUSTURINE [0]   MODERATE [-1]   MAXIMUM    Comments   AMOUNT   AMOUNT    2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality: 2-Moderate amounts, but not of highest quality or in small amounts of highest quality or in small amounts of highest quality or in small amounts of highest    AMOUNT   |
| diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.   |
| 3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)  SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY  HIGH [4] EXCELLENT [7] NONE [6] HIGH [3]  MODERATE [3] GOOD [5] RECOVERED [4] MODERATE [2]  LOW [2] FAIR [3] RECOVERING [3] LOW [1]  NONE [1] POOR [1] RECENT OR NO RECOVERY [1]  Comments  Channel  Maximum  20  |
| 4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)  RIPARIAN WIDTH  EROSION  WIDE > 50m [4]  NONE / LITTLE [3]  MODERATE [2]  NARROW 5-10m [2]  HEAVY / SEVERE [1]  NONE [0]  RIPARIAN WIDTH  FLOOD PLAIN QUALITY  FROM PROBLEM 10 CONSERVATION TILLAGE [1]  WIDE > 50m [4]  RESIDENTIAL, PARK, NEW FIELD [1]  MINING / CONSTRUCTION [0]  Indicate predominant land use(s)  Past 100m riparian. Riparian  |
| Comments  Maximum 613  |
| Solution   Pool   Comments   Pool   Glide And Riffle   Run Quality   |
| Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:  Check ONE (Or 2 & average)  RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS  BEST AREAS > 10cm [2] MAXIMUM > 50cm [2] STABLE (e.g., Cobble, Boulder) [2] NONE [2] STABLE (e.g., Large Gravel) [1] LOW [1] SEST AREAS < 50cm MAXIMUM < 50cm [1] MOD. STABLE (e.g., Fine Gravel, Sand) [0] Riffle / Run MODERATE [0] Riffle / Run Maximum Maximum Ranner Restriction (Restriction of Restriction (Restriction (Restriction of Restriction (Restriction (Re |
| 6] GRADIENT ( 7, 5) ft/mi) UVERY LOW - LOW [2-4] WODERATE [6-10] WRUN: 40 %RIFFLE: Gradient Maximum 10   |

| 4] SAMPLED REACH  | Comment RE: Reach consistency/1 | s reach typical of steam?, Recreation  | / Observed - Inferred, Other/ | Comment RE: Reach consistency/ Is reach typical of steam?, Recreation/Observed - Inferred, Other/Sampling observations, Concerns, Access directions, etc.  | ess directions, etc.  |
|---|---------------------------------|--|-------------------------------|--|---|
| METHOD STAGE  BOAT 1st -sample pass- 2nd  WADE UP  L. LINE DP  OTHER NORMAL         |                                 |  |                               |  |   |
| 0.5 Km CLARITY 0.2 Km tstsample pass- 2, 20, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, | ARITY                           | DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED | Circle some & COMMENT         | EJ ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION / SURFACE FALSE BANK + MANURE / LAGOON WASH H <sub>2</sub> 0 / TILE / H <sub>2</sub> 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME | FJ MEASUREMENTS  X width X depth max. depth S bankfull width bankfull X depth W/D ratio bankfull max. depth floodprone x² width entrench. ratio Legacy Tee: |
| Drawi   | POOL: □>100ft²□>3ft             | FLOOD CONTROL / DRAINAGE   |                               | ATMOSPHERE / DATA PAUCITY  |   |

FORESTED 35 cm 800L SILTIGRAVEL WY SCATTERED 25cm RUN 35 cm Pool 355

UNFORESTED UTILITY CORRIDOR UNFORESTED UTILITY COPRIDOR

### **OhioEPA**

# Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

| OHFI  | Score: | 33 |  |
|-------|--------|----|--|
| KIILI | Score. | 00 |  |

| Stream & Location: AEP Fostoria to Lima - Stream - 1-014 RM: 2.7Date: 71   127   |
|--|
|  |
| River Code: - STORET #: Lat./ Long.: 4   07/469 18 2 22 00 2 7 Office verified pd  |
| 1] SOBSTRATE Check ONLY Two substrate TYPE BOXES:  |
| BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE   ORIGIN   QUALITY  |
| 2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.  UNDERCUT BANKS [1] POOLS > 70cm [2] OXBOWS, BACKWATERS [1] MODERATE 25-75% [7]  OVERHANGING VEGETATION [1] ROOTWADS [1] AQUATIC MACROPHYTES [1] SPARSE 5-<25% [3]  SHALLOWS (IN SLOW WATER) [1] BOULDERS [1] LOGS OR WOODY DEBRIS [1] NEARLY ABSENT <5% [1]  ROOTMATS [1]  Comments  |
| 3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)  |
| SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY  HIGH [4]   |
| 4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)   |
| RIVER right looking downstream  RIPARIAN WIDTH  FLOOD PLAIN QUALITY  FLOOD PLAIN QUALITY  CONSERVATION TILLAGE [1]  NONE / LITTLE [3]  MODERATE 10-50m [3]  SHRUB OR OLD FIELD [2]  MINING / CONSTRUCTION [0]  RESIDENTIAL, PARK, NEW FIELD [1]  MINING / CONSTRUCTION [0]  RESIDENTIAL, PARK, NEW FIELD [1]  MINING / CONSTRUCTION [0]  Indicate predominant land use(s)  past 100m riparian. Riparian  |
| Comments Meximum 5   |
| 5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH CHANNEL WIDTH CURRENT VELOCITY Recreation Potential   |
| MAXIMUM DEPTH Check ONE (ONLY!) Check ONE (Or 2 & average) Torrestrial [-1] Check ONE (ONLY!) Check ONE (Or 2 & average) Torrestrial [-1] Check ALL that apply Check ALL that apply Torrestrial [-1] Check ALL that apply Torr |
| Indicate for functional riffles; Best areas must be large enough to support a population   |
| of riffle-obligate species:  RIFFLE DEPTH RUN DEPTH BEST AREAS > 10cm [2] MAXIMUM > 50cm [2] STABLE (e.g., Cobble, Boulder) [2] NONE [2] NONE [2] MAXIMUM > 50cm [1] MOD. STABLE (e.g., Large Gravel) [1] LOW [1] LOW [1] MAXIMUM > 50cm [2] STABLE (e.g., Fine Gravel, Sand) [0] MODERATE [0] Riffle / Run Moderate [0] Riffle / Run Moderate [0] Moderate [0] Riffle / Run Moderate [0] Moderate [0] Riffle / Run Moderate [0] Moderate [0] Moderate [0] Moderate [0] Run Maximum Maximum 8  |
| 6] GRADIENT ( 9.6 ft/mi) UERY LOW - LOW [2-4] %POOL: (70) %GLIDE: Gradient   |
| DRAINAGE AREA  (     mi²)   MODERATE [6-10]   %RUN: 30 %RIFFLE: Maximum 10   |
|  |

| AJ SAMPLED REACH  Check ALL that apply  METHOD STAGE  BOAT Ist sample pass. 2nd  WADE HIGH  WADE HIGH  L. LINE UP               | Comment RE: Reach consistency/ Is  | s reach typical of steam?, <i>Recreation</i>  | / Observed - Inferred, <i>Other</i> | Comment RE: Reach consistency/ Is reach typical of steam?, Recreation/Observed - Inferred, Other/Sampling observations, Concerns, Access directions, etc.   | ess directions, etc.  |
|---|--|---|-------------------------------------|---|---|
| DISTANCE   DRY  |  |   |                                     |   |   |
| 0.5 Km   CLARITY     0.2 Km   1stsample pass 2r     0.15 Km   20-c40 cm     0.12 Km   20-c40 cm     0.12 Km   20-c40 cm     0.5 | ARITY  BJAESTHETICS  Jee pass 2nd   NUISANCE ALGAE  INVASIVE MACROPHYTES  O cm     EXCESS TURBIDITY  cm   DISCOLORATION  HI DEPTH   OIL SHEEN  Cm   TRASH / LITTER  ONUISANCE ODOR  INVISANCE ODOR  Cm   SLUDGE DEPOSITS  CJ RECREATION ARRA DEPTH  POOL:   >100ft2   >3ft | DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE | Circle some & COMMENT               | EJ ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING (BANK / EROSION / SURFACE FALSE BANK / MANURE / LAGOON WASH H <sub>2</sub> O / TILE / H <sub>2</sub> O TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY | FJ MEA SUREMENTS  \overline{x} width  \overline{x} depth  max. depth \overline{x} bankfull width  bankfull \overline{x} depth  W/D ratio  bankfull max. depth floodprone x² width entrench. ratio  Legacy Tree: |
| Stream Drawing:   | Z T  |   |                                     |   |   |

ROW CROP

SMALL PIPARIMO BUFFER OVERHAND-INGAGUATIC
18 CM
18 CM
SILT/SAND

SMALL RIARIAN BUFFER

Show

OVERHANGING

PASTURE

|   |   |   | M001+  | red Class II III   |   |
|---|---|---|--|--|---|
| Protection Agency   | Headwate  | r Habitat Eva   | aluation Index F<br>HHEI Score (sum  | rield Form<br>of metrics 1+2+3)  | 42  |
| LENGTH OF STREAD ATE 7/2/202  | RIVER BASIN B<br>M REACH (ft) 210 S<br>SCORER BH & CI<br>All Items On This Form -   | LAT 41,019456 D COMMENTS Refer to "Headwat                  | LONG _83.740   | DRAINAGE AREA (mil) (1906 RIVER MILE   | 3.4<br>tructions                                  |
| (Max of 32) TYPE  BLDR S BOULD! COBBL! GRAVE SAND (  Total of Bidr Slabs, B | . Add total number of signific  | ant substrate types for RCENT TYPE                          | SILT [3 pt] , LEAF PACKWOODY DEB! FINE DETRITUS [3 pts] CLAY OF HARDPAN [0 pt] MUCK [0 pts] ARTIFICIAL [3 pts] ¢         | PERCENT 30 RIS [3 pts]  SO (B) (L)   | HHEI<br>Metric<br>Points<br>Substrate<br>Max = 40 |
| 2. Maximum time of eva  | Pool Depth (Measure the p<br>luation. Avoid plunge pools f<br>eters [20 pts]<br>cm [30 pts]<br>cm [25 pts]                        | naximum pool depth  | 5 cm - 10 cm [15 pts]<br>< 5 cm [5pts]<br>NO WATER OR MOIST C  | ONLY one box):   | Pool Depti<br>Max = 30                            |
| 3. BANK FUL  > 4.0 meters > 3.0 m - 4.0  > 1.5 m - 3.0                      | L WIDTH (Measured as the<br>s (> 13') [30 pts]<br>0 m (> 9' 7'- 13') [25 pts]<br>0 m (> 4' 8'' - 9' 7") [20 pts]                  | eaverage of 3 - 4 mea                                       | surements) (Check ONL<br>> 1.0 m - 1.5 m (> 3' 3" - 4<br>≤ 1.0 m (≤ 3' 3")[5 pts]  | Yone box); 7 8"[15 pts]  | Bankfull<br>Width<br>Max=30                       |
| COMMEN  | 15  | This information  | mustalso be completed  | L William (meters)   |   |
| L R   | ARIAN ZONE AND FLOODE  IPARIAN WIDTH (Per Bank)  Wide > 10m  Moderate 5-10m  Narrow < 5m  None  MMENTS  OW REGIME (At Time of Eva | FLOODPLAIL R  Mature For Immature F  Residential Fenced Pas | OTE: River Left (L) and Right  N QUALITY (Most Predomining Lest, Wetland Orest, Shrub or Old Field Park, New Field Sture | R (R) as looking downstreams ant per Bank) R Conservation Tillage Urban or Industrial Open Pasture, Row Co | rop   |
| Stre Sub: COI SIN One One   | am Flowing surface flow with isolated poor MMENTS UOSITY (Number of bends p   | ols (interstitial)  | Moist Channel, iso Dry channel, no w  nnel) (Check ONLY one box 2.0 2.5  | x):<br>3.0<br>>3   | -   |

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

| QHEI PE            | ERFORMED? Yes No QHEI Score  | (If Yes, Attach Completed QHEI form)  |
|--------------------|--|---|
| DOWNS              | STREAM DESIGNATED USE(S)   |   |
| WWH Name:_         | Blanchard River  | Distance from Evaluated Stream 3.4 miles  |
| CWH Name: _        |  | Distance from Evaluated Stream  |
| ☐ EWH Name: _      |  | Distance from Evaluated Stream  |
| MAPPIN             | NG: ATTACH COPIES OF MAPS, INCLUDING THE <u>Entir</u>  | RE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.  |
| USGS Quadrangl     | le Name: Findlay NRCS  | Soil Map Page: NRCS Soil Map Stream Order:  |
| County: Hanc       | COCK Townsh  | ipicity: Liberty Township   |
|                    | LLANEOUS   |   |
| Base Flow Condi    | itions? (Y/N): 4 Date of last precipitation:   | /1/22 Quantity: 0.57"   |
| Photo-documents    | ation Notes: Upstream, downstream,   | & substrate photos recorded.  |
| Elevated Turbidity | y?(Y/N): Canopy (% open):  | <u> </u>  |
| Were samples co    | ollected for water chemistry? (Y/N): La  | b Sample # or ID (attach results):  |
| Field Measures:    | Temp (°C) Dissolved Oxygen (mg/l)  | pH (S.U.) Conductivity (umhos/cm)   |
| is the sampling r  | reach representative of the stream (Y/N) $\underline{\hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm}}$ If not | , explain:  |
| Additional commo   | ents/description of pollution impacts:   |   |
|                    | BIOLOGICAL OBSER<br>(Record all observation  |   |
| Fish Observed?     |  | nis delon)  |
| Frogs or Tadpole   | es Observed? (Y/N) N Species observed (if kno  | own):   |
| Salamanders Ob     | pserved? (Y/N) N Species observed (if known):  |   |
|                    |  | ed (if known):  |
|                    | arding Biology:  |   |
| oonmonio noga      |  |   |
|                    |  |   |
|                    |  | OF STREAM REACH (This <u>must</u> be completed)  r site evaluation and a narrative description of the stream's location |
|                    | RESIDENTIAL  |   |
| Î                  | V  | CULVERTS  |
| 1                  |  |   |
|                    | SMALL RIPARIAN BUFFER  |   |
| FLOW               | HARDPAN W/SILT&GRAVE   |   |
|                    | SMALL RIPARIAN BUTTER  |   |
|                    |  | ARTIFICIAL  |
|                    | ROW CROP   | FILE  |

| _   |  |  | Modifi   | ed Class 1 PHU   |   |
|---|--|--|--|--|---|
| hio<br>Ohio Environmanal<br>Protection Agency   | Headwater H  | abitat Eva   | luation Index<br>HHEI Score (su  | Field Form<br>m of metrics 1+2+3)  | 26  |
| DATE 7/2/22   | RIVER BASIN OHO<br>REACH (ft) 3S LAT<br>SCORER BH SCD  | www Creekr<br>40.96S293<br>comments                    | NER CODE   | UNT to Ottawa ( DRAINAGE AREA (MP) SOFO3 RIVER MILE A  | (0.0S   |
| STREAM CHANNEL N  | ODIFICATIONS: NON  | E / NATURAL CHANN                                      | EL RECOVERED V   | RECOVERING RECENT OR   | NO RECOVER  |
| (Max of 32). Ad  TYPE  BLDR SLAB BOULDER ( BEDROCK I COBBLE (6)                         | S [16 pts] >256 mm) [16 pts] 16 pts] 5-256 mm) [12 pts] 64 mm) [9 pts]                         | ubstrate types foun T TYPE -                           | k ONLY two predominant<br>d (Max of 8). Final metric<br>SILT [3 pt]<br>LEAF PACKWOODY DE<br>FINE DETRITUS [3 pts]<br>CLAY OR HARDPAN [0 pt<br>MUCK [0 pts]<br>ARTIFICIAL [3 pts] | PERCENT  BRIS [3 pts]  | HHEI<br>Metric<br>Points<br>Substrate<br>Max = 40 |
|   | centages of<br>er, Cobble, Bedrock<br>PREDOMINATE SUBSTRAT                                     | E TYPES:   | TOTAL NUMBER OF  | SUBSTRATE TYPES:   | A + B   |
| 2. Maximum Pootime of evaluatic  > 30 centimeters > 22.5 - 30 cm [3] > 10 - 22.5 cm [3] | 00 pts]  | num pool depth wi<br>pad culverts or ston              | m water pipes) (Chec<br>5 cm - 10 cm [15 pts]<br>< 5 cm [5pts]<br>NO WATER OR MOIST  | k ONLY one box): CHANNEL [0pts]  | Pool Depti<br>Max = 30                            |
| COMMENTS _  | 1"   |  | MAXIMUM POOL I   | DEPTH (centimeters): 2.5   |   |
| > 4.0 meters (> 1<br>> 3.0 m - 4.0 m (  | DTH (Measuredas the aver<br>3') [30 pts]<br>> 9' 7"-13') [25 pts]<br>> 4' 8" - 9' 7") [20 pts] | rage of 3 - 4 meas                                     | verements) (Check OA<br>> 1.0 m - 1.5 m (> 3° 3°<br>≤ 1.0 m (≤ 3° 3°) [5 pts]  | -4' 8")[15 pts]  | Bankfull<br>Width<br>Max=30                       |
| COMMENTS _  | 5'   |  | AVERAGE BANKF  | ULL WIDTH (meters) 1.52  |   |
|   | N ZONE AND FLOODPLAIN  | QUALITY * NO   |  | oht (R) as looking downstream  |   |
| L R (Per    Wide     Moder     Narro     None     COMMEN                                | ate 5-10m  | Mature Foresi Immature For Residential, P Fenced Pastu | t, Wetland<br>est, Shrub or Old Field [<br>ark, New Field [<br>re  | Inant per Bank)  L R  Conservation Tillage  Urban or Industrial  Open Pasture, Row C  Mining or Construction |   |
| Stream Flo  |  |  | Moist Channel, is  | solated pools, no flow (intermitt  | ent)  |

 SINUOSITY
 (Number of bends per 61 m (200 ft) of channel)
 (Check ONLY one box):

 None
 1.0
 2.0
 3.0

 0.5
 1.5
 2.5
 >3

Moderate to Severe Severe (10 №100 №

None 0.5

COMMENTS \_

STREAM GRADIENT ESTIMATE

Flat (0.5 M1000 M) Flat to Moderate Moderate (2 M1000 M)

### ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed): QHEI PERFORMED? Yes No QHEI Score \_\_\_\_\_ (If Yes, Attach Completed QHEI form) DOWNSTREAM DESIGNATED USE(S) MWH Name: Ottawa Creek Distance from Evaluated Stream 35 feet ☐ CWH Name: Distance from Evaluated Stream ☐ EWH Name: Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATER SHED AREA. CLEARLY MARK THE SITE LOCATION. USGS Quadrangle Name: RawSon NRCS Soil Map Page: / NRCS Soil Map Stream Order: / County: HANCOCK Township/City: Union Township MISCELLANEOUS Base Flow Conditions? (Y/N): 1 Date of last precipitation: 7/1/22 Quantity: 0.57" Photo-documentation Notes: Ustream, downstream, & substrate photos recorded Elevated Turbidity?(Y/N): N Canopy (% open): O Were samples collected for waterchemistry? (Y/N): \_\_\_\_\_\_\_\_\_ Lab Sample # or ID (attach results): \_\_\_\_\_\_\_ Field Measures:Temp (°C) \_\_\_\_\_ Dissolved Oxygen (mg/l) \_\_\_\_ pH (S.U.) \_\_\_\_ Conductivity (umhos/cm) Is the sampling reach representative of the stream (Y/N) \_\_\_\_\_ If not, explain: \_\_\_\_\_ Additional comments/description of pollution impacts: **BIOLOGICAL OBSERVATIONS** (Record all observations below) Fish Observed? (Y/N) N Species observed (if known):\_\_\_\_\_ Frogs or Tadpoles Observed? (Y/N) \_\_\_\_\_ Species observed (if known);\_\_\_\_\_\_ Salamanders Observed? (Y/N) \_\_\_\_\_ Species observed (if known):\_\_\_\_\_ Aquatic Macroinvertebrates Observed? (Y/N) N Species observed (if known): Comments Regarding Biology: DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location RIPARIAN BUTTER (2"POOL) MUCK MOIST CHANNEL (1) RIPARIAN BUTTER

3.0 >3 ·

| Headwater Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)  | 1   |
|--|---|
| Protection Agency  | >1  |
| SITE NAME/LOCATION ASP FOSTOR TO LIMA - SHEAM 1-022 (UNIT TO OHIGHWA C SITE NUMBER RIVER BASIN OHIGHWA CHECK RIVER CODE DRAINAGE AREA (MP) O.S. LENGTH OF STREAM REACH (ft) 200 LAT 40.954133 LONG -83.816972 RIVER MILE O.DATE 7/3/22 SCORER BH &CD COMMENTS NOTE: Complete All Items On This Form - Refer to "Headwater Habitat Evaluation Index Field Manual" for Instru-STREAM CHANNEL MODIFICATIONS: NONE/NATURAL CHANNEL RECOVERED RECENT OR NO F  | ctions  |
| Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A 8 B   PERCENT   TYPE   T | HHEI<br>Metric<br>Points<br>Substra<br>Max = 40 |
| 2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the   | ool Dep<br>Max = 30                             |
| 3. BANK FULL WIDTH (Measuredas the average of 3 - 4 measurements) (Check ONLY one box):  > 4.0 meters (> 13") [30 pts]  > 1.0 m - 1.5 m (> 3" 3" - 4" 8") [15 pts]   | Bankful<br>Width<br>Max=30                      |
| This information must also becompleted  RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream*  RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank)  L R (Per Bank) L R  Wide > 10m Mature Forest, Wetland Conservation Tillage  Moderate 5-10m Mature Forest, Shrub or Old Field Urban or Industrial  Narrow <5m Residential, Park, New Field Open Pasture, Row Crop  None Residential, Park, New Field Open Pasture, Row Crop  None Fenced Pasture Mining or Construction  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one bpx):  Stream Flowing Moist Channel, isolated pools, no flow (intermittent)   |   |

STREAM GRADIENT ESTIMATE

Flat (0.5 M100 M) Flat to Moderate Moderate (2 M100 M) Moderate to Severe Severe Severe (10 M100 M)

2.0 2.5

 SINUOSITY (Number of bends per 61 m (200 ft) of channel)
 (Check ONLY one box):

 None
 1.0
 2.0

 0.5
 1.5
 2.5

1.0

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

| QHEI PERFORMED? Yes No QHEI Score (If Yes, Att  | tach Completed QHEI form)   |
|---|---|
| DOWNSTREAM DESIGNATED USE(S)  WWH Name: OHOWA CHEEK  CWH Name:  | Distance fromEvaluated Stream  Distance fromEvaluated Stream  Distance fromEvaluated Stream |
| MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED A  |   |
| USGS Quadrangle Name: RawSon NRCS Soil Map Page: County: Harcock Township/City: Unit  |   |
| MISCELLANEOUS   | 7 1000 0.111  |
| Base Flow Conditions? (Y/N): Date of last precipitation:  |   |
| Photo-documentation Notes: UPStream, Jawnstream, Ssubstr  | rate photos recorded,   |
| Elevated Turbidity?(Y/N): Canopy (% open): 70   |   |
| Were samples collected for water chemistry? (Y/N): Lab Sample # or ID   | (attach results):   |
| Field Measures:Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.)  |   |
| Is the sampling reach representative of the stream (Y/N) If not, explain:   |   |
| BIOLOGICAL OBSERVATIONS (Record all observations below)  Fish Observed? (Y/N) Species observed (if known):  Frogs or Tadpoles Observed? (Y/N) Species observed (if known):  Salamanders Observed? (Y/N) Species observed (if known):  Aquatic Macroinvertebrates Observed? (Y/N) Species observed (if known): |   |
| Comments Regarding Biology:   |   |
| DRAWING AND NARRATIVE DESCRIPTION OF STREAM Include important landmarks and other features of interest for site evaluation ar  UNFORESTED  FORESTED  WOIST CHAINEL  FORESTED  UNFORESTED  UNFORESTED  UNFORESTED  UNFORESTED  UNFORESTED  UNFORESTED  UNFORESTED  | nd a narrative description of the stream's location  CORRIDOR  FORESTED  FORESTED  FORESTED |

|   | modified Class II Pr   | W   |
|---|--|---|
| Chio Chertomental Profession Agency   | r Habitat Evaluation Index Field Form<br>HHEI Score (sum of metrics 1+2+3)   | 45  |
| LENGTH OF STREAM REACH (ft) 200 L<br>DATE 715/12 SCORER BH & CO   | O CIMA-STREAU 1-027 (UNT to Cranberry CD  Where Cheek River Code DRAINAGE AREA (MF) CO  AT 40.850858 LONG 83.99008 RIVER MILE  COMMENTS Refer to "Headwater Habitat Evaluation Index Field Manual" for Inst  | 9   |
|   | NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR N  |   |
| (Max of 32). Add total number of significa  | ery type present). Check ONLY two predominant substrate TYPE boxes.  ant substrate types found (Max of 8). Final metric score is sum of boxes A & B  CENT TYPE    Y SILT [3 pt]    LEAF PACKWOODY DEBRIS [3 pts]    FINE DETRITUS [3 pts]    CLAY or HARDPAN [0 pt]    MUCK [0 pts]    ARTIFICIAL [3 pts]    (A)    TRATE TYPES: 3    TOTAL NUMBER OF SUBSTRATE TYPES: 2 | HHEI<br>Metric<br>Points<br>Substrate<br>Max = 40 |
| 2. Maximum Pool Depth (Measure the m  | maximum pool depth within the 61 meter (200 feet) evaluation reach at the formroad culverts or storm water pipes) (Check ONLY one box):    5 cm - 10 cm [15 pts]   | Pool Depth<br>Max = 30                            |
| COMMENTS  | MAXIMUM POOL DEPTH (centimeters): 35   |   |
| > 4.0 meters (> 13') [30 pts]<br>> 3.0 m - 4.0 m (> 9' 7"-13') [25 pts]<br>> 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] | eaverage of 3 - 4 measurements) (Check ONL Y one box):    > 1.0 m - 1.5 m (> 3' 3" - 4' 8")[15 pts]    ≤ 1.0 m (≤ 3' 3")[5 pts]  | Bankfull<br>Width<br>Max=30                       |
| COMMENTS 6  | AVERAGE BANKFULL WIDTH (meters) 1.8  |   |
| RIPARIAN ZONE AND FLOODPI  RIPARIAN WIDTH  L R (Per Bank)  Wide >10m  Moderate 5-10m  Narrow <5m  None                | This information must also be completed  LAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream*  FLOODPLAIN QUALITY (Most Predominant per Bank)  L R  Mature Forest, Wetland Conservation Tillage  Immature Forest, Shrub or Old Field Urban or Industrial  Residential, Park, New Field Open Pasture, Row Completed Mining or Construction            | rop   |
| COMMENTS  |  | _   |

May 2020 Revision

None

None

Stream Flowing

COMMENTS

STREAM GRADIENT ESTIMATE Flat (0.5 6/100 t) Flat to Moderate

Page 1

2.0 2.5

Moderate to Severe

FLOW REGIME (At Time of Evaluation) (Check ONLY one box):

1.0

SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):

Moderate (2 %/100 %)

Subsurface flow with isolated pools (interstitial)



3.0 >3

Severe (10 ft/100 ft)

Moist Channel, isolated pools, no flow (intermittent)

Dry channel, no water (ephemeral)

### ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed): QHEI PERFORMED? Yes No QHEI Score (If Yes, Attach Completed QHEI form) MINH DOWNSTREAM DESIGNATED USE(S) Distance from Evaluated Stream 1.9 miles MYM Name: Cranberry Creek Distance from Evaluated Stream CWH Name: Distance from Evaluated Stream ☐ EWH Name: MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION. USGS Quadrangle Name: Beaverdam NRCS Soil Map Page: \_\_\_\_\_\_ NRCS Soil Map Stream Order: \_\_\_\_\_\_ Township/City: Richland Township County: Aller MISCELLANEOUS Base Flow Conditions? (Y/N): N Date of last precipitation: 7/5/22 Quantity: 0.85" Photo-documentation Notes: Upstream, downstream, & substrate photos documented Elevated Turbidity?(Y/N): \_\_\_\_\_\_ Canopy (% open): \_\_\_\_\_\_\_ Were samples collected for water chemistry? (Y/N): \_\_\_\_\_ Lab Sample # or ID (attach results): \_\_\_\_\_ Field Measures:Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm) Is the sampling reach representative of the stream (Y/N) \_\_\_\_ If not, explain: Additional comments/description of pollution impacts: **BIOLOGICAL OBSERVATIONS** (Record all observations below) Fish Observed? (Y/N) \_\_\_\_\_ Species observed (if known);\_\_\_\_\_\_ Frogs or Tadpoles Observed? (Y/N) N Species observed (if known): Salamanders Observed? (Y/N) N Species observed (if known): Aquatic Macroinvertebrates Observed? (Y/N) N Species observed (if known): Comments Regarding Biology: DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location ROW CROP SMALL RIPARIAN BUTTER HARDPAN W/ SILT ISOU RUN SMALL RIPARIAN BUFFER

ROW CROP

# **Ohio EPA**

# Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

| HEI | Score: | 47 |
|-----|--------|----|

| Stream & Location: AEP Fostoria to Lina - 9  | tream 1-029 RM: 1.1Date:7/5/22   |
|--|--|
| Scorers Full Name  | & Affiliation: Beth Hollinger, Chi's Davisson, ES  |
| River Code: STORET #: Lat./ Lon  | 19:40 809946 18 4. 074531 Office verified location   |
| BEST TYPES  BLDR /SLABS [10]  BOULDER [9]  GRAVEL [7]  SAND [6]  BEDROCK [5]  WIMBER OF BEST TYPES: 4 or more [2] sludge from point-sources)  SOURTHER TYPES  OTHER TYPES  POOL RIFFLE  DETRITUS [3]  DETRITUS [3]  SAND [6]  SOURCE [8]  DETRITUS [3]  SOURCE [8]   Check ONE (Or 2 & average)  ORIGIN  ULIMESTONE [1]  TILLS [1]  WETLANDS [0]  HARDPAN [0]  SANDSTONE [0]  RIPIRAP [0]  ACUSTURINE [0]  COAL FINES [-2]  COAL FINES [-2] |
| OVERHANGING VEGETATION [1] ROOTWADS [1] AQUA   | r in small amounts of highest<br>deep or fast water large Check ONE (Or 2 & average)   |
| ☐ HIGH [4]       ☐ EXCELLENT [7]       ☐ NONE [6]       ☐         ☐ MODERATE [3]       ☐ GOOD [5]       ☐ RECOVERED [4]       ☐  | STABILITY   HIGH [3]   MODERATE [2]   LOW [1]   Channel   Maximum   20   |
| EROSION  | PLAIN QUALITY  IP [3]  |
| Comments   | Maximum 4  |
| Check ONE (ONLY!)       Check ONE (Or 2 & average)       Check ANE (ANE (Or 2 & average)       Check ANE (ANE (Or 2 & average)       Check ANE (ANE (ANE (ANE (ANE (ANE (ANE (ANE  | INTERSTITIAL [-1]   (circle one and comment on back)   |
| Indicate for functional riffles; Best areas must be large enoug of riffle-obligate species:  Check ONE (Or 2 & average RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBS  BEST AREAS > 10cm [2] MAXIMUM > 50cm [2] STABLE (e.g., Cobble, Both Best Areas 5-10cm [1] MAXIMUM < 50cm [1] MOD. STABLE (e.g., Large Best Areas < 5cm Maximum = Mod. STABLE (e.g., Fine Grammerts)  Comments   | th to support a population  NO RIFFLE [metric=0]  TRATE RIFFLE / RUN EMBEDDEDNESS  pulder) [2]   |
| DRAINAGE AREA MODERATE [6-10]  | OOL: SO %GLIDE: Gradient Maximum 10  |

| CLARITY  BJASSTHETICS  CLARITY  BJASSTHETICS  CLARITY  BJASSTHETICS  DJWAMTENANCE  CLORE HANDER  CLORE HANDER  CLORE HANDER  CLORE HANDER  CONTRIBUTION  CLORE HANDER  CLORE CANADA  CLORE CONTRIBUTION  CONTRIBUTION  CLORE CONTRIBUTION  CONTRIN | SE pass-2nd  | y/ Is reach typical of steam?, Recreation                             | ı/ Observed - Inferred, Othe | Comment RE: Reach consistency/ Is reach typical of steam?, Recreation/ Observed - Inferred, Other/Sampling observations, Concerns, Access directions, etc   | pess directions, etc.   |
|--|--|---|------------------------------|---|---|
| 45 CA MONE PHANCEING  45 CA MONE PHANCEING  ROW CROP  ROW CROP  ROW CROP  ROW CROP  WHEN  WHEN  WHEN  WHEN  SAMAL  ROW CROP  R | STANCE   LOW   |   | Circle some & COMMENT        | EJ ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRTAGRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING (BANK / EROSION / SURFACE FALSE BANK / MANURE / LAGOON WASH H <sub>2</sub> 0 / TILE / H <sub>2</sub> 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME | FJ MEASUREMENTS  x width x depth max. depth x bankfull width bankfull x depth w/D ratio bankfull max. depth floodprone x² width entrench. ratio |
| 45 Can DUE PHANDING POOL MARTH SAME RIPARIAN BUTTER MARDING WILL RIPARIAN BUTTER SMALL RIPARIAN BUTTER SMALL RIPARIAN BUTTER TO SMALL RIPARIAN BUTTER OUTER OUTER OUTER OUTER  | Stream Drawing:  |   |                              |   |   |
| MARDAN WI SAUD BUTTER  SAUGE RIPARIAN BUTTER  SAUGE RIPARIAN BUTTER  OUTER  OUT | 45 CM OUF PHAND  | ROW CROP  |                              |   |   |
|  | And The State of t | COUDERCUT SAUR BUTTER RICHARD SAUR SAUR SAUR SAUR SAUR SAUR SAUR SAUR | Lew Ich                      | LUMTIC<br>WEARTHES<br>ACROPHYTES  |   |



#### Environmental Solutions & Innovations, inc.

4300 Lynn Road, Suite 205 Ravenna, OH 44266

Phone: 513-451-1777 Fax: 513-451-3321

Pesi 2018 10 November 2023

Aldridge Electric 844 E. Rockland Road Libertyville, IL 60048

To Whom it May Concern:

RE: Addendum: AEP's Fostoria-East Lima 138 kV Transmission Line Rebuild Project in Liberty Township, Hancock County, Ohio

Aldridge Electric (AE) retained Environmental Solutions & Innovations, Inc. (ESI) on behalf of American Electric Power (AEP) to complete an ecological survey for the above referenced project in Hancock County, Ohio. ESI initially surveyed the main route for aquatic resources in July 2022.

On 16 October 2023, ESI re-visited the site and completed an ecological survey in one additional workspace within the Area of Investigation (AOI) that is the subject of this letter addendum. A forested portion of wetland 1-Z was identified within the additional workspace and mapped. One stream (1-012) and two wetlands (1-Z PEM and 1-AA) were extended beyond previous constraints and one additional upland sample point was taken within the workspace to characterize upland conditions. One NWI mapped resource was identified within the workspace. Figures showing the project location and the aquatic resource delineation are provided in Attachment 1. Representative photographs of wetlands and upland sample points and the stream are provided in Attachment 2 and field data sheets for sample points are provided in Attachment 3. Temporary or permanent impacts to these resources may require permits from the USACE and or OEPA.

Please contact me with any questions or requests for additional information. Thank you.

Sincerely,

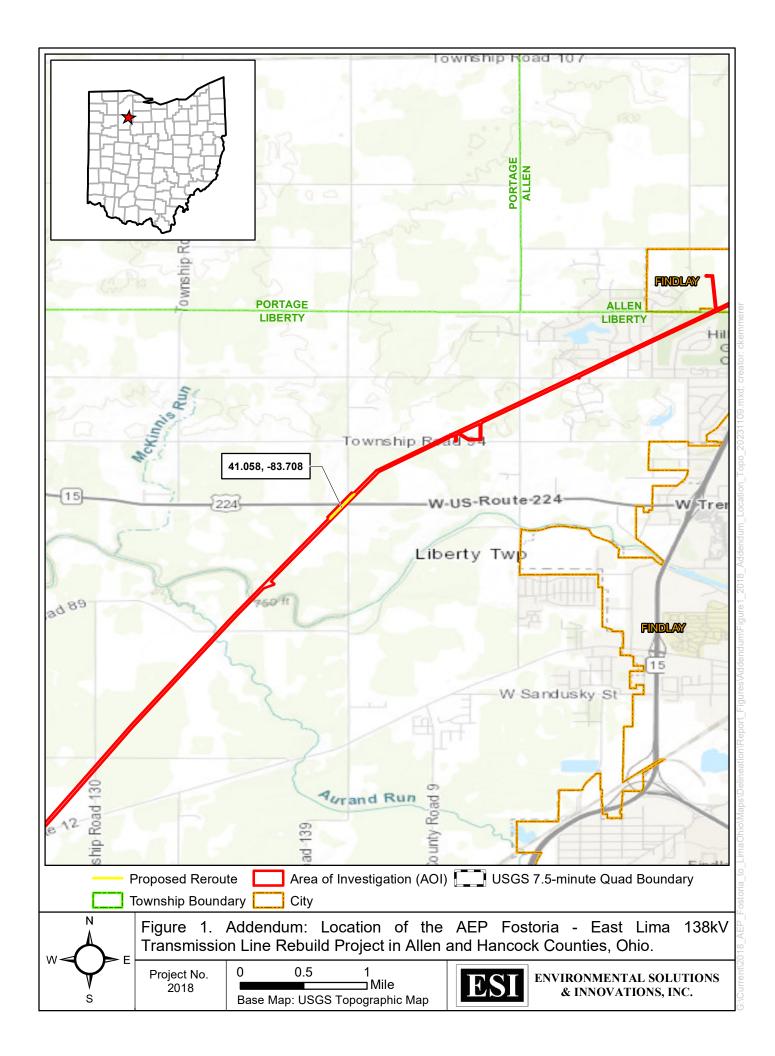
Cory Kwolek, Scientist Email: <a href="mailto:ckwolek@envsi.com">ckwolek@envsi.com</a> Mobile: (937) 671-2103

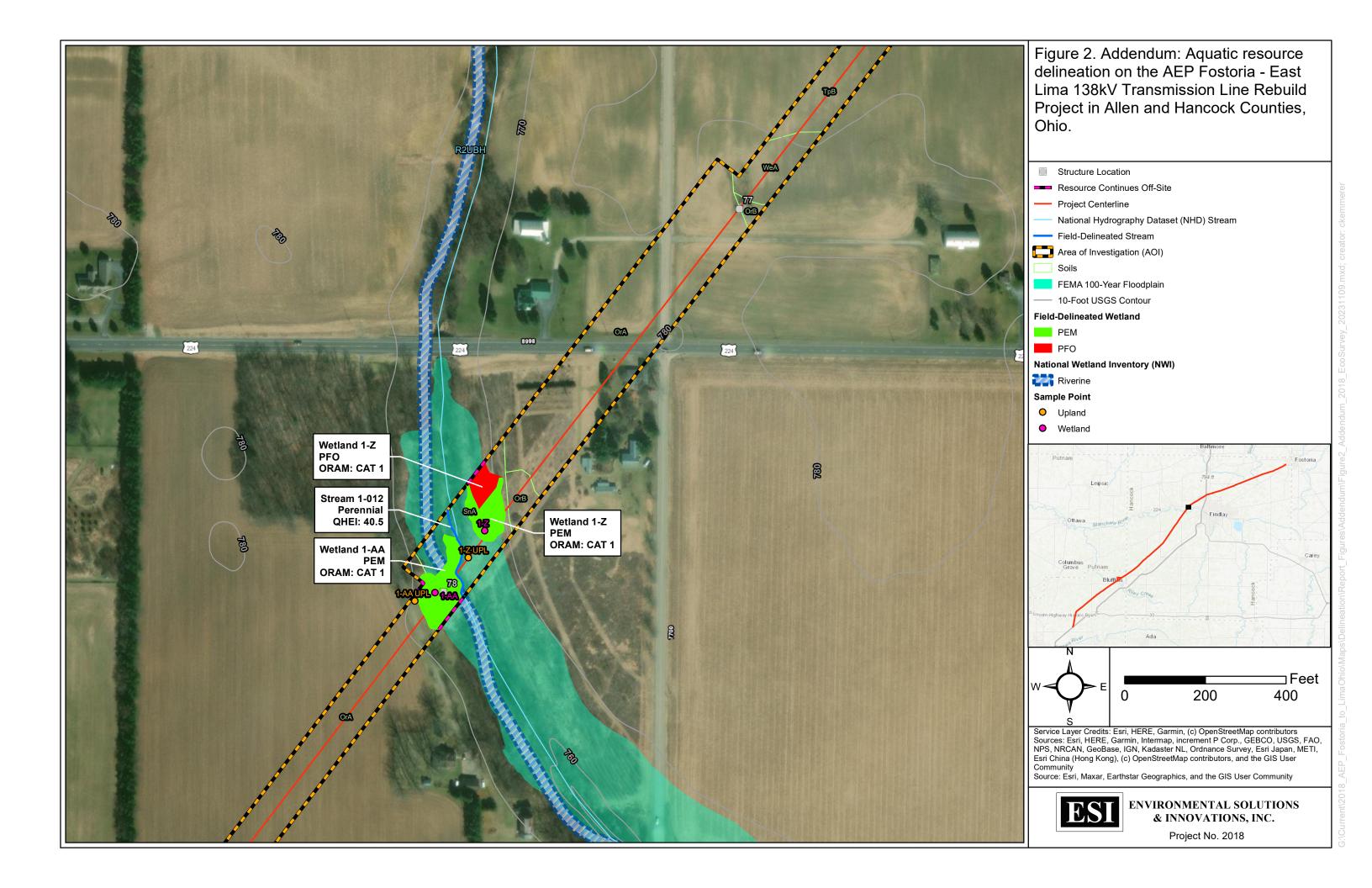
Attachments:

Attachment 1 – Figures Attachment 2 – Site Photos Attachment 3 – Datasheets

## ATTACHMENT 1 FIGURES







ATTACHMENT 2 SITE PHOTOS



Client/Site Name:

American Electric Power (AEP)

Addendum: Fostoria to East Lima Line

Rebuild Project

**Site Location:** Hancock County, OH



Wetland 1-Z PFO (North)



Wetland 1-Z PFO (East)



Wetland 1-Z PFO (South)



Wetland 1-Z PFO (West)

Client/Site Name:

American Electric Power (AEP)

Addendum: Fostoria to East Lima Line

Rebuild Project

**Site Location:** Hancock County, OH



Wetland 1-Z PFO (Soil)



Upland 2-SP-001 (North)



Upland 2-SP-001 (East)



Upland 2-SP-001 (South)

Client/Site Name:

American Electric Power (AEP)

Addendum: Fostoria to East Lima Line

Rebuild Project

**Site Location:** Hancock County, OH



Upland 2-SP-001 (West)



Upland 2-SP-001 (Soil)



Stream 1-012 (Upstream)



Stream 1-012 (Downstream)

Client/Site Name:

American Electric Power (AEP)

Addendum: Fostoria to East Lima Line

Rebuild Project

**Site Location:** Hancock County, OH



Stream 1-012 (Substrate)

ATTACHMENT 3
DATASHEETS



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

| Project/Site: 2018 Aldrich Fostoria - East Lima Project City/0   | County: Hancock County Sampling Date: 2023-10-16                                 |
|--|--|
| Applicant/Owner: Aldrich Electric  | State: Ohio Sampling Point: 1-Z PFO  |
| Investigator(s): C. Kwolek, E. Wilson Section  |  |
| Landform (hillslope, terrace, etc.): Depression Local re   |  |
| Subregion (LRR or MLRA): <u>L 99</u> Lat: <u>41.057791</u>   |  |
| Soil Map Unit Name: SnA - Sloan loam, 0 to 1 percent slopes, occ   |  |
| Are climatic / hydrologic conditions on the site typical for this time of year?                          |  |
| Are Vegetation, Soil, or Hydrology significantly distu   | rbed? Are "Normal Circumstances" present? Yes No                                 |
| Are Vegetation, Soil, or Hydrology naturally problem   |  |
| SUMMARY OF FINDINGS – Attach site map showing sar  | npling point locations, transects, important features, etc.                      |
| Hydrophytic Vegetation Present? Yes V No Hydric Soil Present? Yes No | Is the Sampled Area within a Wetland?  Yes No  If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.)                                  |  |
| Wetland sample point for PFO portion of 1-Z. S   | ample taken within forested portion of   |
| wetland. All three wetland criteria present.   |  |
| HYDROLOGY  |  |
| Wetland Hydrology Indicators:  | Secondary Indicators (minimum of two required)                                   |
| Primary Indicators (minimum of one is required; check all that apply)                                    |  |
| Surface Water (A1)  Water-Stained Leave  High Water Table (A2)  Aquatic Fauna (B13)                      |  |
| High Water Table (A2) Saturation (A3) Aquatic Fauna (B13) Marl Deposits (B15)                            |  |
| Saturation (AS) Main Deposits (B13) Hydrogen Sulfide Oc  |  |
| Sediment Deposits (B2) Oxidized Rhizospher   |  |
| Drift Deposits (B3) Presence of Reduce   |  |
| Algal Mat or Crust (B4) Recent Iron Reduction  |  |
| Iron Deposits (B5) Thin Muck Surface (   |  |
| Inundation Visible on Aerial Imagery (B7)  Other (Explain in Re  |  |
| Sparsely Vegetated Concave Surface (B8)  | FAC-Neutral Test (D5)  |
| Field Observations:  |  |
| Surface Water Present? Yes No Depth (inches):  |  |
| Water Table Present? Yes No Depth (inches):  |  |
| Saturation Present? Yes No Depth (inches):   | Wetland Hydrology Present? Yes V No No   |
| (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre   | evious inspections), if available:   |
|  |  |
|  |  |
| Remarks:   |  |
| Wetland hydrology present  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

| VEGETATION - Use scientific names of plants  |          |                      |        | Sampling Point: 1-Z PFO   |
|--|----------|----------------------|--------|---|
| Tree Stratum (Plot size: 30 ft r )   | Absolute | Dominant<br>Species? |        | Dominance Test worksheet:   |
| 1. Salix nigra   | 55       | <u>opecies:</u><br>✓ | OBL    | Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)  |
| 2. Populus tremuloides   | 20       | ~                    | FACU   | Total Number of Dominant  |
| 3  |          |                      |        | Species Across All Strata: 6 (B)  |
| 4  |          |                      |        | Percent of Dominant Species   |
| 5  |          |                      |        | That Are OBL, FACW, or FAC: 83.33 (A/B)   |
| 6  |          |                      |        | Prevalence Index worksheet:   |
| 7  |          |                      |        | Total % Cover of: Multiply by:  |
|  | 75       | = Total Cov          | /er    | OBL species $\frac{75}{50}$ $\times 1 = \frac{75}{100}$   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )  |          |                      | E40\4/ | FACW species $50$ $x 2 = 100$<br>FAC species $35$ $x 3 = 105$   |
| 1. Fraxinus pennsylvanica  |          |                      | FACW   | FAC species $\frac{35}{20}$ $x 3 = \frac{105}{80}$<br>FACU species $\frac{20}{x 4 = 80}$                          |
| 2  |          |                      |        | UPL species $0 \times 5 = 0$  |
| 3  |          |                      |        | Column Totals: 180 (A) 360 (B)  |
| 4  |          |                      |        | Prevalence Index = $B/A = 2.00$   |
| 5  |          |                      |        |   |
| 6  |          |                      |        | Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation                                     |
| 7  |          |                      |        | ✓ 2 - Dominance Test is >50%  |
| F. 4   | 35       | = Total Cov          | er/    | ✓ 3 - Prevalence Index is ≤3.0¹   |
| Herb Stratum (Plot size: 5 ft r )  1. Equisetum hyemale  | 35       | ~                    | FAC    | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting  |
| 2. Leersia oryzoides   | 20       |                      | OBL    | data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)                |
| - Franchavirus manfalistrus  | 15       |                      | FACW   |   |
| 4 |          |                      |        | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic. |
| 5  |          |                      |        |   |
| 6  |          |                      |        | Definitions of Vegetation Strata:   |
| 7  |          |                      |        | <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.       |
| 8  |          |                      |        | Sapling/shrub – Woody plants less than 3 in. DBH  |
| 9  |          |                      |        | and greater than or equal to 3.28 ft (1 m) tall.  |
| 10   |          |                      |        | Herb – All herbaceous (non-woody) plants, regardless  |
| 11   |          |                      |        | of size, and woody plants less than 3.28 ft tall.   |
| 12   |          |                      |        | Woody vines – All woody vines greater than 3.28 ft in   |
|  | 70       | = Total Cov          | /er    | height.   |
| Woody Vine Stratum (Plot size: 30 ft r   |          |                      |        |   |
| 1  |          |                      |        |   |
| 2.   |          |                      |        |   |
| 3  |          |                      |        | Hydrophytic   |
| 4  |          |                      |        | Vegetation Present?  Yes No   |
|  | 0        | = Total Cov          | er/    |   |
| Remarks: (Include photo numbers here or on a separate  | sheet.)  |                      |        |   |
| Hydrophytic vegetation present   |          |                      |        |   |
|  |          |                      |        |   |
|  |          |                      |        |   |
|  |          |                      |        |   |
|  |          |                      |        |   |
|  |          |                      |        |   |

SOIL Sampling Point: 1-Z PFO

| Profile Desc               | ription: (Describe                   | to the dep     | oth needed to docur                     | ment the        | indicator         | or confirr       | n the absence of          | indicators.)  |
|----------------------------|--------------------------------------|----------------|---|-----------------|-------------------|------------------|---------------------------|---|
| Depth                      | Matrix                               |                |   | x Feature       | S1                | . 2              |                           |   |
| (inches)                   | Color (moist)                        | <u>%</u>       | Color (moist)                           | %               | Type <sup>1</sup> | Loc <sup>2</sup> | <u>Texture</u>            | Remarks   |
| 0 - 20                     | 10YR 2/2                             | 95             | 10YR 4/6                                | 5               | С                 | M                | Mucky Loam/Clay           |   |
| -                          |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                | -                                       | -               |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
| -                          |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   | -               |                   |                  |                           | _   |
|                            | _                                    |                |   | -               | -                 |                  |                           |   |
|                            |                                      |                |   | -               |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
| _                          |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                | -                                       | _               |                   | · <del></del>    |                           |   |
|                            |                                      |                | -                                       |                 |                   |                  |                           |   |
| -                          |                                      |                |   |                 |                   |                  |                           |   |
| 1Type: C-Cc                | ncentration D-Der                    | letion RM      | =Reduced Matrix, M                      | S-Masker        | d Sand G          | raine            | <sup>2</sup> l ocation: F | PL=Pore Lining, M=Matrix.                             |
| Hydric Soil I              |                                      | DICTION, TXIVI | -itcaacca iviatrix, ivi                 | <u>J-Masket</u> | J Garia G         | airio.           |                           | r Problematic Hydric Soils <sup>3</sup> :             |
| Histosol                   |                                      |                | Polyvalue Belo                          | w Surface       | (S8) (LR          | R R,             | 2 cm Muc                  | k (A10) ( <b>LRR K, L, MLRA 149B</b> )                |
|                            | pipedon (A2)                         |                | MLRA 149B                               |                 | , , ,             |                  |                           | airie Redox (A16) (LRR K, L, R)                       |
| Black His                  |                                      |                | Thin Dark Surfa                         |                 |                   |                  |                           | ky Peat or Peat (S3) (LRR K, L, R)                    |
|                            | n Sulfide (A4)                       |                | Loamy Mucky N                           |                 |                   | (, L)            |                           | ace (S7) (LRR K, L)                                   |
|                            | l Layers (A5)<br>I Below Dark Surfac | - (Δ11)        | Loamy Gleyed Depleted Matrix            |                 | <del>(</del> )    |                  |                           | Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) |
|                            | rk Surface (A12)                     | C (A11)        | ✓ Redox Dark Su                         |                 |                   |                  |                           | ganese Masses (F12) (LRR K, L, R)                     |
|                            | lucky Mineral (S1)                   |                | Depleted Dark                           | , ,             |                   |                  |                           | Floodplain Soils (F19) (MLRA 149B)                    |
| Sandy G                    | leyed Matrix (S4)                    |                | Redox Depress                           | ions (F8)       |                   |                  | Mesic Sp                  | odic (TA6) (MLRA 144A, 145, 149B)                     |
| -                          | edox (S5)                            |                |   |                 |                   |                  |                           | nt Material (F21)                                     |
|                            | Matrix (S6)                          | MI DA 440      | D)                                      |                 |                   |                  |                           | llow Dark Surface (TF12)                              |
| Dark Sui                   | face (S7) (LRR R, I                  | VILKA 149      | <b>B</b> )                              |                 |                   |                  | Other (Ex                 | plain in Remarks)                                     |
| <sup>3</sup> Indicators of | hydrophytic vegeta                   | tion and w     | etland hydrology mus                    | st be pres      | ent, unles        | s disturbed      | d or problematic.         |   |
|                            | ayer (if observed)                   |                | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                 | - ,               |                  | T                         |   |
| Type:                      |                                      |                |   |                 |                   |                  |                           |   |
|                            | ches):                               |                |   |                 |                   |                  | Hydric Soil Pr            | esent? Yes No   |
| Remarks:                   |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
| Hydric s                   | oil present                          |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |
|                            |                                      |                |   |                 |                   |                  |                           |   |

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

| Project/Site: 2018 Aldrich Fostoria - East Lima Project  | City/County: Hancock County              | Sampling Date: 2023-10-16                         |  |  |
|--|--|---|--|--|
| Applicant/Owner: Aldrich Electric  |  | Ohio Sampling Point: 2-SP-001                     |  |  |
| Investigator(s): C. Kwolek, E. Wilson  | Section, Township, Range: S9 T1N R1      |   |  |  |
| Landform (hillslope, terrace, etc.): Upland, Depression Lo   | cal relief (concave, convex, none): Conc | cave Slope (%): 1                                 |  |  |
| Subregion (LRR or MLRA): <u>L 99</u> Lat: <u>41.057344</u>   | Long: -83.710152                         | Datum: WGS 84                                     |  |  |
| Soil Map Unit Name: SnA - Sloan loam, 0 to 1 percent slopes,   | occasionally flooded NWI                 | classification: R2UBH                             |  |  |
| Are climatic / hydrologic conditions on the site typical for this time of ye   | ar? Yes No (If no, expl                  | ain in Remarks.)                                  |  |  |
| Are Vegetation, Soil, or Hydrology significantly   | disturbed? Are "Normal Circumsta         | ances" present? Yes No                            |  |  |
| Are Vegetation, Soil, or Hydrology naturally pro   | oblematic? (If needed, explain any       | answers in Remarks.)                              |  |  |
| SUMMARY OF FINDINGS - Attach site map showing  | sampling point locations, tran           | sects, important features, etc.                   |  |  |
| Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in a separate repo | If yes, optional Wetland Site ID: _      | s No  |  |  |
| Upland sample point taken to characterize  | upland conditions. Sampl                 | e point taken within                              |  |  |
| forest adjacent to PEM and perennial stream hydric soil or hydrology is present.   | m. Although hydrophytic                  | vegetation is present, no                         |  |  |
| HYDROLOGY  Western d Underland Indicators  | Casanda                                  |   |  |  |
| Wetland Hydrology Indicators:  |  | y Indicators (minimum of two required)            |  |  |
| Primary Indicators (minimum of one is required; check all that apply)  |  | Surface Soil Cracks (B6)                          |  |  |
| Surface Water (A1) Water-Stained High Water Table (A2) Aquatic Fauna   |  | Drainage Patterns (B10) Moss Trim Lines (B16)     |  |  |
| Aquatic Faula Aquatic Faula Aquatic Faula Saturation (A3) Marl Deposits (  |  | · · ·   |  |  |
| Saturation (AS) Water Marks (B1) Hydrogen Sulfin   | 1 0 1 (04)                               | Dry-Season Water Table (C2) Crayfish Burrows (C8) |  |  |
|  |  | ration Vis ble on Aerial Imagery (C9)             |  |  |
| Drift Deposits (B3) Presence of Re   |  | ted or Stressed Plants (D1)                       |  |  |
|  |  | norphic Position (D2)                             |  |  |
| Iron Deposits (B5) Thin Muck Surf  |  | ow Aquitard (D3)                                  |  |  |
| Inundation Visible on Aerial Imagery (B7) Other (Explain   | • •                                      | otopographic Relief (D4)                          |  |  |
| Sparsely Vegetated Concave Surface (B8)  |  | Neutral Test (D5)                                 |  |  |
| Field Observations:  |  |   |  |  |
| Surface Water Present? Yes No Depth (inches  | ):                                       |   |  |  |
| Water Table Present? Yes No Depth (inches  | ):                                       |   |  |  |
| Saturation Present? Yes No Depth (inches) (includes capillary fringe)  | : Wetland Hydrology                      | Present? Yes No                                   |  |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photo  | os, previous inspections), if available: |   |  |  |
|  |  |   |  |  |
| Remarks:   |  |   |  |  |
| No wetland hydrology present   |  |   |  |  |
|  |  |   |  |  |

| Tree Stratum (Plot size: 30 ft r                            |          | Dominant Species? |      | Dominance Test worksheet:   |
|---|----------|-------------------|------|---|
|   | 45       | <b>/</b>          | FACW | Number of Dominant Species  |
| 2. Acer saccharinum   | 15       |                   | FACW | That Are OBL, FACW, or FAC: 6 (A)   |
| 3. Rhamnus cathartica                                       | 15       |                   | FAC  | Total Number of Dominant Species Across All Strata: 6 (B)   |
| 4<br>5  |          |                   |      | Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B   |
| 6   |          |                   |      | Prevalence Index worksheet:   |
| 7   |          |                   |      | Total % Cover of: Multiply by:  |
|   | 75       | = Total Cov       | /er  | OBL species $0 	 x 1 = 0$   |
| Sapling/Shrub Stratum (Plot size: 15 ft r )                 |          |                   |      | FACW species 70 x 2 = 140   |
| 1. Lonicera maackii   | 20       | ~                 |      | FAC species $\frac{55}{x^3} = \frac{165}{x^3}$  |
| 2.  |          |                   |      | FACU species $0 \times 4 = 0$   |
|   |          |                   |      | UPL species $0 \times 5 = 0$  |
| 3   |          |                   |      | Column Totals: <u>125</u> (A) <u>305</u> (B)  |
| 4   |          |                   |      | Prevalence Index = B/A = 2.44   |
| 5   |          |                   |      |   |
| 6   |          |                   |      | Hydrophytic Vegetation Indicators:  |
| 7   |          |                   |      | <ul><li>1 - Rapid Test for Hydrophytic Vegetation</li><li>✓ 2 - Dominance Test is &gt;50%</li></ul>               |
|   | 20       | = Total Cov       | /er  | 2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹   |
| Herb Stratum (Plot size: 5 ft r<br>1. Persicaria virginiana | 25       | ~                 | FAC  | 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)            |
| 2. Cryptotaenia canadensis                                  | 15       |                   | FAC  | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |
| - Flymus virginious   | 10       |                   |      | 1 Toblematio 1 yarophytio Vegetation (Explain)  |
| 3. Elymus virginicus<br>4.                                  |          |                   | FACW | <sup>1</sup> Indicators of hydric soil and wetland hydrology must<br>be present, unless disturbed or problematic. |
| 5   |          |                   |      | Definitions of Vegetation Strata:   |
| 6   |          |                   |      | Tree – Woody plants 3 in. (7.6 cm) or more in diamete   |
| 7   |          |                   |      | at breast height (DBH), regardless of height.   |
| 8   |          |                   |      | Sapling/shrub – Woody plants less than 3 in. DBH  |
| 0   |          |                   |      | and greater than or equal to 3.28 ft (1 m) tall.  |
| 10.   |          |                   |      | Herb – All herbaceous (non-woody) plants, regardless  |
| 11  |          |                   |      | of size, and woody plants less than 3.28 ft tall.   |
| 12  |          |                   |      | Woody vines – All woody vines greater than 3.28 ft in   |
| 12.   | F0       | Total Car         |      | height.   |
| 20 ft r   |          | = Total Cov       | /er  |   |
| Woody Vine Stratum (Plot size: 30 ft r )                    |          |                   |      |   |
| 1   |          |                   |      |   |
| 2   |          |                   |      |   |
| 3   |          |                   |      | Hydrophytic   |
| 4   |          |                   |      | Vegetation Present? Yes No  |
|   | 0        | = Total Cov       | /er  | 1100ml. 100 NO  |
| Remarks: (Include photo numbers here or on a separate       | sheet.)  |                   |      |   |
| Hydrophytic vegetation present                              | sileet.) |                   |      |   |

SOIL Sampling Point: 2-SP-001

| Profile Desc               | ription: (Describe                  | to the dep   | th needed to docun            | nent the i    | ndicator    | or confirn       | n the absence of         | indicators.)  |
|----------------------------|-------------------------------------|--------------|-------------------------------|---------------|-------------|------------------|--------------------------|---|
| Depth                      | Matrix                              | 0/           |                               | x Features    |             | Loc <sup>2</sup> | Touturo                  | Domonico  |
| (inches)                   | Color (moist)                       | <u>%</u>     | Color (moist)                 | %             | Type'       | LOC              | Texture                  | Remarks   |
| 0 - 20                     | 10YR 3/3                            | 100          |                               |               |             |                  | Silty Clay Loam          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
| -                          |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
| -                          |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               | · <del></del> |             |                  |                          |   |
|                            | -                                   |              | -                             |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          | _   |
|                            |                                     | <del> </del> |                               |               |             |                  |                          |   |
|                            | -                                   |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
| <sup>1</sup> Type: C=Co    | oncentration, D=Dep                 | oletion, RM= | Reduced Matrix, MS            | S=Masked      | Sand Gra    | ains.            | <sup>2</sup> Location: F | PL=Pore Lining, M=Matrix.   |
| Hydric Soil I              |                                     |              |                               |               |             |                  |                          | r Problematic Hydric Soils <sup>3</sup> :                                 |
| Histosol                   |                                     |              | Polyvalue Belov               | v Surface     | (S8) (LRF   | RR,              | 2 cm Mud                 | ck (A10) ( <b>LRR K, L, MLRA 149B</b> )                                   |
|                            | pipedon (A2)                        |              | MLRA 149B)                    |               |             |                  |                          | airie Redox (A16) (LRR K, L, R)   |
| Black His                  | stic (A3)<br>n Sulfide (A4)         |              | Thin Dark Surfa Loamy Mucky M |               |             |                  |                          | cky Peat or Peat (S3) (LRR K, L, R)                                       |
|                            | l Layers (A5)                       |              | Loamy Gleyed I                |               |             | , L)             |                          | face (S7) ( <b>LRR K, L</b> )<br>e Below Surface (S8) ( <b>LRR K, L</b> ) |
|                            | d Below Dark Surfac                 | e (A11)      | Depleted Matrix               |               | ,           |                  |                          | k Surface (S9) (LRR K, L)   |
| -                          | ark Surface (A12)                   | ` ,          | Redox Dark Sui                |               |             |                  |                          | ganese Masses (F12) (LRR K, L, R)   |
| -                          | lucky Mineral (S1)                  |              | Depleted Dark S               |               | 7)          |                  |                          | t Floodplain Soils (F19) (MLRA 149B)                                      |
| -                          | Sleyed Matrix (S4)                  |              | Redox Depress                 | ions (F8)     |             |                  |                          | odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )                                |
| -                          | edox (S5)                           |              |                               |               |             |                  |                          | ent Material (F21)  |
|                            | Matrix (S6)<br>rface (S7) (LRR R, I | MI DA 1/0E   | 2)                            |               |             |                  |                          | ıllow Dark Surface (TF12)<br>xplain in Remarks)                           |
| Bank Gan                   | nace (67) (Errich, 1                | MERCA 140E   | •)                            |               |             |                  | Other (2)                | continuo (  |
| <sup>3</sup> Indicators of | hydrophytic vegeta                  | ition and we | tland hydrology mus           | t be prese    | ent, unless | disturbed        | d or problematic.        |   |
| Restrictive L              | _ayer (if observed)                 | :            |                               |               |             |                  |                          |   |
| Type:                      |                                     |              |                               |               |             |                  |                          |   |
| Depth (inc                 | ches):                              |              |                               |               |             |                  | Hydric Soil Pr           | resent? Yes No  |
| Remarks:                   |                                     |              |                               |               |             |                  |                          |   |
| Nia lavalui                |                                     |              |                               |               |             |                  |                          |   |
| NO HYUH                    | c soil preser                       | IL           |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
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|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |
|                            |                                     |              |                               |               |             |                  |                          |   |

### **Background Information**

Name: Cory Kwolek

Date:

11/8/2023

Affiliation:

Environmental Solutions & Innovations, Inc.

Address:

4525 Este Ave., Cincinnati, OH 45232

Phone Number:

937-671-2103

e-mail address:

ckwolek@envsi.com

Name of Wetland: Wetland 1-Z

Vegetation Communit(ies):

PEM, PFO

HGM Class(es):

Emergent, Forested

Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.

Please see Figures 1 and 2 in associated Ecological Survey Report.

| Lat/Long or UTM Coordinate 41.0574 | 72 -83.709640     |
|------------------------------------|-------------------|
| USGS Quad Name                     | Findlay           |
| County                             | Hancock           |
| Township                           | Liberty           |
| Section and Subsection             | OH01 T1N R10E SN9 |
| Hydrologic Unit Code               | 041000080304      |
| Site Visit                         | 7/1/2022          |
| National Wetland Inventory Map     | N/A               |
| Ohio Wetland Inventory Map         | N/A               |
| Soil Survey                        | SnA               |
| Delineation report/map             | Yes               |

| Name of Wetland: Wetland 1-Z  |         |
|---|---------|
| Wetland Size (acres, hectares):   | 0.32 ac |
| Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc. |         |
| Please see Figures 1 and 2 in associated Ecological Survey Report.                          |         |
| Comments, Narrative Discussion, Justification of Category Changes:                          |         |
| Final score: 23 Category:   | 1       |

#### **Scoring Boundary Worksheet**

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

| #      | Steps in properly establishing scoring boundaries   | done?    | not applicable |
|--------|---|----------|----------------|
| Step 1 | Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.   | <b>√</b> |                |
| Step 2 | Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human-induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland. | <b>\</b> |                |
| Step 3 | Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.   | J        |                |
| Step 4 | Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.  | <b>/</b> |                |
| Step 5 | In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.   |          | <b>/</b>       |
| Step 6 | Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.   |          | $\sqrt{}$      |

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

#### **Narrative Rating**

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), <a href="http://www.dnr.state.oh.us/dnap">http://www.dnr.state.oh.us/dnap</a>. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

| #  | Question   | Circle one  |                         |
|----|--|---|-------------------------|
| 1  | Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover   | YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2 | NO<br>Go to Question 2  |
| 2  | has had critical habitat proposed (65 FR 41812 July 6, 2000).  Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?  | YES  Wetland is a Category 3 wetland.  Go to Question 3                           | Go to Question 3        |
| 3  | Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?  | YES Wetland is a Category 3 wetland Go to Question 4                              | Go to Question 4        |
| 4  | Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?  | YES Wetland is a Category 3 wetland Go to Question 5                              | Go to Question 5        |
| 5  | Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?   | YES  Wetland is a Category 1 wetland Go to Question 6                             | NO Go to Question 6     |
| 6  | <b>Bogs.</b> Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?   | YES Wetland is a Category 3 wetland Go to Question 7                              | Go to Question 7        |
| 7  | <b>Fens.</b> Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?   | YES Wetland is a Category 3 wetland Go to Question 8a                             | Go to Question 8a       |
| 8a | "Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs? | YES  Wetland is a Category 3 wetland.  Go to Question 8b                          | NO<br>Go to Question 8b |

| 8b  | Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of   | YES   | (I)                      |
|-----|--|---|--------------------------|
|     | deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?   | Wetland should be evaluated for possible Category 3 status. | Go to Question 9a        |
|     |  |   |                          |
| 9a  | Lake Erie coastal and tributary wetlands. Is the wetland located at  | Go to Question 9a YES                                       | <b>1</b> NO              |
| эа  | an elevation less than 575 feet on the USGS map, adjacent to this  | 150   | (NO)                     |
|     | elevation, or along a tributary to Lake Erie that is accessible to fish?   | Go to Question 9b   | Go to Question 10        |
| 9b  | Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is  | YES   | [NQ]                     |
|     | partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?   | Wetland should be evaluated for possible Category 3 status  | Go to Question 9c        |
|     |  | Go to Question 10   |                          |
| 9с  | Are Lake Erie water levels the wetland's primary hydrological influence,   | YES   | (NO)                     |
|     | i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation. | Go to Question 9d   | Go to Question 10        |
| 9d  | Does the wetland have a predominance of native species within its  | YES   | (NO)                     |
| ou. | vegetation communities, although non-native or disturbance tolerant  | 120   |                          |
|     | native species can also be present?  | Wetland is a Category 3 wetland                             | Go to Question 9e        |
|     |  | Go to Question 10   |                          |
| 9e  | Does the wetland have a predominance of non-native or disturbance  | YES   | NQ                       |
|     | tolerant native plant species within its vegetation communities?   | Wetland should be   | Go to Question 10        |
|     |  | evaluated for possible                                      |                          |
|     |  | Category 3 status   |                          |
|     |  | Go to Question 10   |                          |
| 10  | Lake Plain Sand Prairies (Oak Openings) Is the wetland located in  | YES   | (NO)                     |
|     | Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within   | Wetland is a Category 3 wetland.                            | Go to Question 11        |
|     | several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of   | Go to Question 11   |                          |
|     | Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.   |   |                          |
| 11  | Relict Wet Prairies. Is the wetland a relict wet prairie community   | YES   | NO                       |
|     | dominated by some or all of the species in Table 1. Extensive prairies   | Matlemale and be a  | Commisto                 |
|     | were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion   | Wetland should be evaluated for possible                    | Complete<br>Quantitative |
|     | Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties),  | Category 3 status   | Rating                   |
|     | and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,  | Complete Quantitative                                       |                          |
|     | Montgomery, Van Wert etc.).  | Complete Quantitative<br>Rating                             |                          |

Table 1. Characteristic plant species.

| invasive/exotic spp   | fen species                    | bog species                     | 0ak Opening species      | wet prairie species       |
|-----------------------|--------------------------------|---------------------------------|--------------------------|---------------------------|
| Lythrum salicaria     | Zygadenus elegans var. glaucus | Calla palustris                 | Carex cryptolepis        | Calamagrostis canadensis  |
| Myriophyllum spicatum | Cacalia plantaginea            | Carex atlantica var. capillacea | Carex lasiocarpa         | Calamogrostis stricta     |
| Najas minor           | Carex flava                    | Carex echinata                  | Carex stricta            | Carex atherodes           |
| Phalaris arundinacea  | Carex sterilis                 | Carex oligosperma               | Cladium mariscoides      | Carex buxbaumii           |
| Phragmites australis  | Carex stricta                  | Carex trisperma                 | Calamagrostis stricta    | Carex pellita             |
| Potamogeton crispus   | Deschampsia caespitosa         | Chamaedaphne calyculata         | Calamagrostis canadensis | Carex sartwellii          |
| Ranunculus ficaria    | Eleocharis rostellata          | Decodon verticillatus           | Quercus palustris        | Gentiana andrewsii        |
| Rhamnus frangula      | Eriophorum viridicarinatum     | Eriophorum virginicum           |                          | Helianthus grosseserratus |
| Typha angustifolia    | Gentianopsis spp.              | Larix laricina                  |                          | Liatris spicata           |
| Typha xglauca         | Lobelia kalmii                 | Nemopanthus mucronatus          |                          | Lysimachia quadriflora    |
|                       | Parnassia glauca               | Schechzeria palustris           |                          | Lythrum alatum            |
|                       | Potentilla fruticosa           | Sphagnum spp.                   |                          | Pycnanthemum virginianum  |
|                       | Rhamnus alnifolia              | Vaccinium macrocarpon           |                          | Silphium terebinthinaceum |
|                       | Rhynchospora capillacea        | Vaccinium corymbosum            |                          | Sorghastrum nutans        |
|                       | Salix candida                  | Vaccinium oxycoccos             |                          | Spartina pectinata        |
|                       | Salix myricoides               | Woodwardia virginica            |                          | Solidago riddellii        |
|                       | Salix serissima                | Xyris difformis                 |                          |                           |
|                       | Solidago ohioensis             |                                 |                          |                           |
|                       | Tofieldia glutinosa            |                                 |                          |                           |
|                       | Triglochin maritimum           |                                 |                          |                           |
|                       | Triglochin palustre            |                                 |                          |                           |

End of Narrative Rating. Begin Quantitative Rating on next page.

| Site: AEP FOS        | storia to Lima Rater(s): Beflu Hollinder, Chris Davisson Date: 7/1/22  |
|----------------------|--|
| 2 2                  | Metric 1. Wetland Area (size).   |
| 2 2                  |  |
| max 6 pts. subtotal  | Select one size class and assign score.  >50 acres (>20.2ha) (6 pts)  25 to <50 acres (10.1 to <20.2ha) (5 pts)  10 to <25 acres (4 to <10.1ha) (4 pts)  3 to <10 acres (1.2 to <4ha) (3 pts)  0.3 to <3 acres (0.12 to <1.2ha) (2pts)  0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)  <0.1 acres (0.04ha) (0 pts)  |
| 4 6                  | Metric 2. Upland buffers and surrounding land use.   |
| max 14 pts. subtotal | 2a. Calculate average buffer width. Select only one and assign score. Do not double check.  WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)  MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)  NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)  VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)  2b. Intensity of surrounding land use. Select one or double check and average.  VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)  LOW. Old field (>10 years), shrub land, young second growth forest. (5)  MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)  HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)  |
| 9 15                 | Metric 3. Hydrology.   |
| max 30 pts. subtotal | 3a. Sources of Water. Score all that apply.  High pH groundwater (5)  Other groundwater (3)  Precipitation (1)  Seasonal/Intermittent surface water (3)  Perennial surface water (lake or stream) (5)  3c. Maximum water depth. Select only one and assign score.  >0.7 (27.6in) (3)  0.4 to 0.7m (15.7 to 27.6in) (2) <a href="#">Connectivity. Score all that apply.</a> Between stream/lake and other human use (1)  Part of wetland/upland (e.g. forest), complex (1)  Part of riparian or upland corridor (1)  Semi- to permanently inundated/saturated (4)  Regularly inundated/saturated (3)  Seasonally inundated (2)  Seasonally saturated in upper 30cm (12in) (1)  3e. Modifications to natural hydrologic regime. Score one or double check and average.   |
|                      | None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1) Recovering (3) Recovering (4) Recovering (4) Recovering (5) Recovering (6) Recovering (7) Recovering ( |
| 9 24                 | Metric 4. Habitat Alteration and Development.  |
| max 20 pts. subtotal | 4a. Substrate disturbance. Score one or double check and average.  None or none apparent (4)  Recovered (3)  Recovering (2)  Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7)  Very good (6)  Good (5)  Moderately good (4)  Fair (3)  Poor to fair (2)  Poor (1)  |
|                      | 4c. Habitat alteration. Score one or double check and average.   |
| subtotal this pag    |  |

| O'CONTROL OF THE CONTROL OF THE CONT |  |              |
|--|--|--------------|
| Site: AEP Fastoria to Cinta  | Rater(s): Beth Hollinder, Chris Davisson Date: 7/  | 1/2022       |
| subtotal first page  Metric 5. Special V   | Wetlan   | W 1-Z        |
| 0 24 Wettic 3. Special v   | vetianus.  |              |
| max 10 pts subtotal Check all that apply and score as in Bog (10) Fen (10) Old growth forest (10) Mature forested wetland Lake Erie coastal/tributal Lake Plain Sand Prairies Relict Wet Prairies (10) Known occurrence state/ Significant migratory son Category 1 Wetland. Se  | 5) v wetland-unrestricted hydrology (10) v wetland-restricted hydrology (5) (Oak Openings) (10) ederal threatened or endangered species (10) bird/water fowl habitat or usage (10) Question 1 Qualitative Rating (-10)   |              |
|  | nmunities, interspersion, microtopograph   | ıy.          |
| max 20 pts subtotal 6a. Wetland Vegetation Communit  |  |              |
| Score all present using 0 to 3 scale   | O Absent or comprises <0.1ha (0.2471 acres) contig   |              |
| Aquatic bed t Emergent   | <ol> <li>Present and either comprises small part of wetlan<br/>vegetation and is of moderate quality, or comprises</li> </ol>  |              |
| Shrub  | significant part but is of low quality   | ses a        |
| Forest   | Present and either comprises significant part of w   | etland's     |
| Mudflats   | vegetation and is of moderate quality or compris   | ses a small  |
| Open water   | part and is of high quality  |              |
| Other<br>6b. horizontal (plan view) Intersper  | Present and comprises significant part, or more, or  | of wetland's |
| Select only one.   | ion, vegetation and is of high quality   |              |
| High (5)   | Narrative Description of Vegetation Quality  |              |
| Moderately high(4)   | low Low spp diversity and/or predominance of nonnat  | ive or       |
| Moderate (3)   | disturbance tolerant native species  |              |
| Moderately low (2)   | mod Native spp are dominant component of the vegeta  |              |
| Low (1)<br>None (0)  | although nonnative and/or disturbance tolerant can also be present, and species diversity mode   |              |
| 6c. Coverage of invasive plants. R   |  |              |
| to Table 1 ORAM long form for list.  |  | Tare         |
| or deduct points for coverage  | high A predominance of native species, with nonnative  | spp          |
| Extensive >75% cover (-  | The state of the s | r virtually  |
| Moderate 25-75% cover  | 5  | t always,    |
| Sparse 5-25% cover (-1)  | the presence of rare, threatened, or endangered  | d spp        |
| Nearly absent <5% cover  | Mudflat and Open Water Class Quality   |              |
| 6d. Microtopography.   | 0 Absent <0.1ha (0.247 acres)  |              |
| Score all present using 0 to 3 scale   | 1 Low 0.1 to <1ha (0.247 to 2.47 acres)  |              |
| Ø Vegetated hummucks/tus   | sucks 2 Moderate 1 to <4ha (2.47 to 9.88 acres)  |              |
| O Coarse woody debris >15  | cm (6in) 3 High 4ha (9.88 acres) or more   |              |
| Standing dead >25cm (10) Amphibian breeding pools  | ,  |              |
| 7 This land dreeding poor  | 0 Absent   |              |
|  | Present very small amounts or if more common   | _            |
|  | of marginal quality  |              |
|  | Present in moderate amounts, but not of highest quality or in small amounts of highest quality   | _            |
|  | 3 Present in moderate or greater amounts   |              |
| 20   | and of highest quality   |              |

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End of Quantitative Rating. Complete Categorization Worksheets.

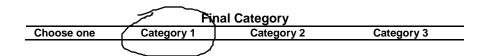
### **ORAM Summary Worksheet**

|                        |  | circle<br>answer or<br>insert<br>score | Result   |
|------------------------|--|--|--|
| Narrative Rating       | Question 1 Critical Habitat  | YES NO                                 | If yes, Category 3.                                  |
|                        | Question 2. Threatened or Endangered Species                           | YES NO                                 | If yes, Category 3.                                  |
|                        | Question 3. High Quality Natural Wetland                               | YES NO                                 | If yes, Category 3.                                  |
|                        | Question 4. Significant bird habitat                                   | YES NO                                 | If yes, Category 3.                                  |
|                        | Question 5. Category 1 Wetlands  | YES (NO)                               | If yes, Category 1.                                  |
|                        | Question 6. Bogs   | YES NO                                 | If yes, Category 3.                                  |
|                        | Question 7. Fens   | YES NO                                 | If yes, Category 3.                                  |
|                        | Question 8a. Old Growth Forest   | YES NO                                 | If yes, Category 3.                                  |
|                        | Question 8b. Mature Forested Wetland                                   | YES NO                                 | If yes, evaluate for Category 3; may also be 1 or 2. |
|                        | Question 9b. Lake Erie Wetlands -<br>Restricted                        | YES (NO                                | If yes, evaluate for Category 3; may also be 1 or 2. |
|                        | Question 9d. Lake Erie Wetlands –<br>Unrestricted with native plants   | YES (NO)                               | If yes, Category 3                                   |
|                        | Question 9e. Lake Erie Wetlands -<br>Unrestricted with invasive plants | YES (NO)                               | If yes, evaluate for Category 3; may also be 1 or 2. |
|                        | Question 10. Oak Openings  | YES NO                                 | If yes, Category 3                                   |
|                        | Question 11. Relict Wet Prairies                                       | YES (NO)                               | If yes, evaluate for Category 3; may also be 1 or 2. |
| Quantitative<br>Rating | Metric 1. Size   | 2                                      |  |
| J                      | Metric 2. Buffers and surrounding land use                             | 4                                      |  |
|                        | Metric 3. Hydrology  | 9                                      |  |
|                        | Metric 4. Habitat  | 9                                      |  |
|                        | Metric 5. Special Wetland Communities                                  | 0                                      |  |
|                        | Metric 6. Plant communities, interspersion, microtopography            | -1                                     |  |
|                        | TOTAL SCORE  | 23                                     | Category based on score breakpoints                  |
|                        |  |  | Category 1   |

**Complete Wetland Categorization Worksheet.** 

### **Wetland Categorization Worksheet**

| Choices  | Circle one   | _  | Evaluation of Categorization Result of ORAM  |
|--|--|--|--|
| Did you answer "Yes" to any of the following questions:  Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10   | YES Wetland is categorized as a Category 3 wetland   | TO .   | Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over-  |
| Did you answer "Yes" to any of the following questions:  | YES (  | NO   | categorized by the ORAM  Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using   |
| Narrative Rating Nos. 1, 8b, 9b, 9e, 11  | evaluated for possible Category 3 status   |  | either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.   |
| Did you answer "Yes" to  | YES (  | NO   | Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold <i>(including</i> any gray zone)? If yes,  |
| Narrative Rating No. 5   | Wetland is categorized as a Category 1 wetland   |  | reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM   |
| Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?  | Wetland is assigned to the appropriate category based on the scoring range   | NO   | If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.   |
| Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?   | Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria       | NO   | Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).  |
| Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method? | YES  Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form | Wetland is assigned to category as determined by the ORAM. | A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, loca or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided. |



**End of Ohio Rapid Assessment Method for Wetlands.**