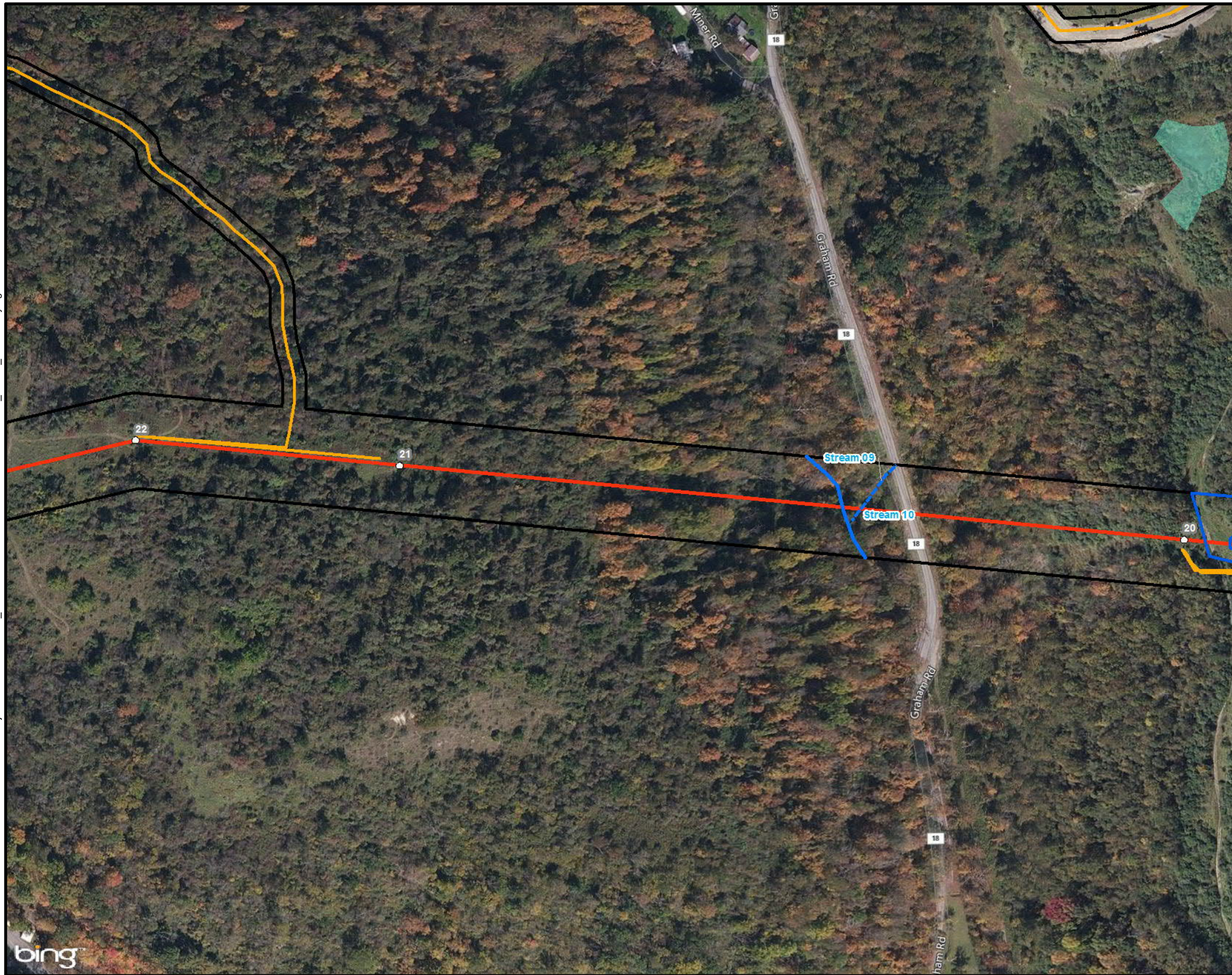
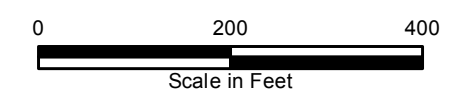




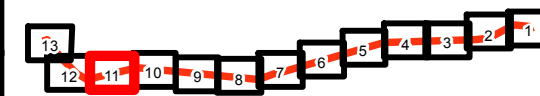
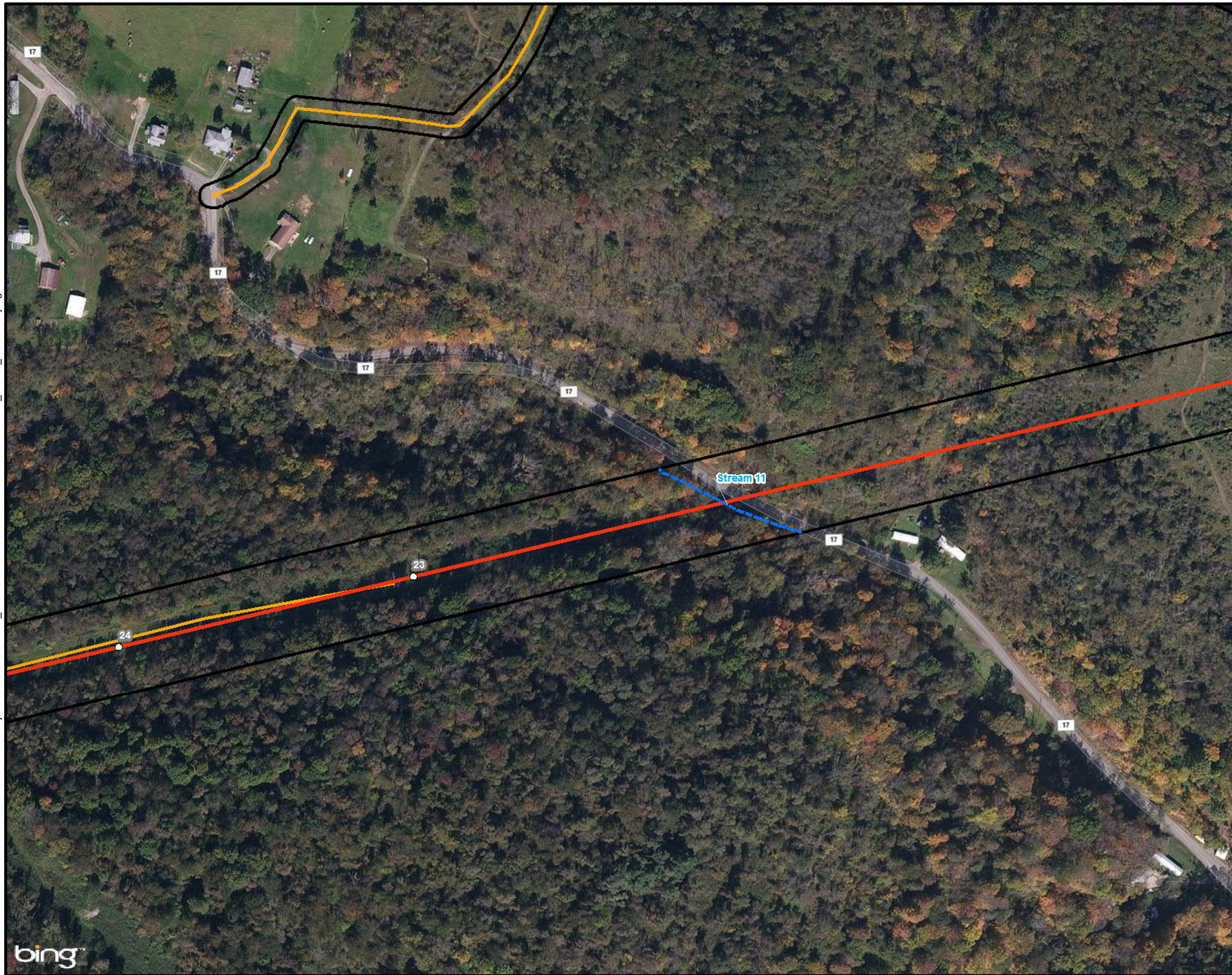
- LEGEND:
- Structure Location
  - Proposed Centerline
  - Preliminary Access Road
  - ▬ Ecological Survey Corridor
  - - - Delineated Ephemeral Stream
  - - - Delineated Intermittent Stream
  - Delineated Perennial Stream
  - Determined Stream
  - ▨ Delineated Wetland
  - ▭ Delineated Pond
  - ▭ National Wetland Inventory Area



**AEP OHIO TRANSMISSION COMPANY** Tidd-Gable 138 kV Transmission Line

FIGURE 10  
ECOLOGICAL SURVEY RESULTS

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- LEGEND:
- Structure Location
  - Proposed Centerline
  - Preliminary Access Road
  - Ecological Survey Corridor
  - Delineated Ephemeral Stream
  - Delineated Intermittent Stream
  - Delineated Perennial Stream
  - Determined Stream
  - Delineated Wetland
  - Delineated Pond
  - National Wetland Inventory Area



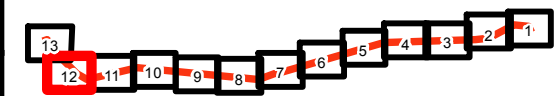
**AEP OHIO TRANSMISSION COMPANY** Tidd-Gable 138 kV Transmission Line

FIGURE 11  
ECOLOGICAL SURVEY RESULTS

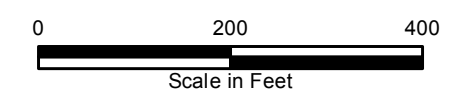
JOB NO. 60513702



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- LEGEND:
- Structure Location
  - Proposed Centerline
  - Preliminary Access Road
  - ▭ Ecological Survey Corridor
  - - - Delineated Ephemeral Stream
  - - - Delineated Intermittent Stream
  - Delineated Perennial Stream
  - Determined Stream
  - ▨ Delineated Wetland
  - ▭ Delineated Pond
  - ▭ National Wetland Inventory Area



**AEP OHIO TRANSMISSION COMPANY** Tidd-Gable 138 kV Transmission Line

FIGURE 12  
ECOLOGICAL SURVEY RESULTS

JOB NO. 60513702





- LEGEND:
- Structure Location
  - Proposed Centerline
  - Preliminary Access Road
  - ▭ Ecological Survey Corridor
  - - - Delineated Ephemeral Stream
  - - - Delineated Intermittent Stream
  - Delineated Perennial Stream
  - Determined Stream
  - ▨ Delineated Wetland
  - ▭ Delineated Pond
  - ▭ National Wetland Inventory Area



**AEP OHIO TRANSMISSION COMPANY** Tidd-Gable 138 kV Transmission Line

FIGURE 13  
ECOLOGICAL SURVEY RESULTS

**ATTACHMENT A**

**WETLAND FORMS**

**ATTACHMENT A.1**

**U.S. ARMY CORPS OF ENGINEERS (USACE) FORMS**

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

|                                      |                              |                                       |                |                 |                 |        |       |
|--------------------------------------|------------------------------|---------------------------------------|----------------|-----------------|-----------------|--------|-------|
| Project/Site:                        | Tidd-Gable Transmission Line | City/County:                          | Jefferson      | Sampling Date:  | 25-Jul-16       |        |       |
| Applicant/Owner:                     | AEP                          | State:                                | OH             | Sampling Point: | w-mdt-072516-01 |        |       |
| Investigator(s):                     | MDT, JTT                     | Section, Township, Range:             | S 16 T 5N R 2W |                 |                 |        |       |
| Landform (hillslope, terrace, etc.): | Ravine                       | Local relief (concave, convex, none): | concave        | Slope:          | 0.0% / 0.0 °    |        |       |
| Subregion (LRR or MLRA):             | LRR N                        | Lat.:                                 | 40.250725      | Long.:          | -80.692429      | Datum: | NAD83 |
| Soil Map Unit Name:                  | MnE                          | NWI classification:                   | PEM1C          |                 |                 |        |       |

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

## Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                                                                    |                                                               |                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Hydrophytic Vegetation Present?                                                                                                    | Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Hydric Soil Present?                                                                                                               | Yes <input checked="" type="radio"/> No <input type="radio"/> |                                                                                                     |
| Wetland Hydrology Present?                                                                                                         | Yes <input checked="" type="radio"/> No <input type="radio"/> |                                                                                                     |
| Remarks:<br>PEM wetland at toe of slopes in valley with intermittent stream adjacent. Wetland continues north beyond survey limits |                                                               |                                                                                                     |

## Hydrology

|                                                                                                            |                                                                        |                                                                    |   |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|---|
| <b>Wetland Hydrology Indicators:</b>                                                                       |                                                                        | <u>Secondary Indicators (minimum of two required)</u>              |   |
| <u>Primary Indicators (minimum of one required; check all that apply)</u>                                  |                                                                        |                                                                    |   |
| <input type="checkbox"/> Surface Water (A1)                                                                | <input type="checkbox"/> True Aquatic Plants (B14)                     | <input type="checkbox"/> Surface Soil Cracks (B6)                  |   |
| <input type="checkbox"/> High Water Table (A2)                                                             | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   |   |
| <input checked="" type="checkbox"/> Saturation (A3)                                                        | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input checked="" type="checkbox"/> Drainage Patterns (B10)        |   |
| <input type="checkbox"/> Water Marks (B1)                                                                  | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Moss Trim Lines (B16)                     |   |
| <input type="checkbox"/> Sediment Deposits (B2)                                                            | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Dry Season Water Table (C2)               |   |
| <input type="checkbox"/> Drift deposits (B3)                                                               | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Crayfish Burrows (C8)                     |   |
| <input type="checkbox"/> Algal Mat or Crust (B4)                                                           | <input type="checkbox"/> Other (Explain in Remarks)                    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |   |
| <input type="checkbox"/> Iron Deposits (B5)                                                                |                                                                        | <input type="checkbox"/> Stunted or Stressed Plants (D1)           |   |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)                                         |                                                                        | <input type="checkbox"/> Geomorphic Position (D2)                  |   |
| <input type="checkbox"/> Water-Stained Leaves (B9)                                                         |                                                                        | <input type="checkbox"/> Shallow Aquitard (D3)                     |   |
| <input type="checkbox"/> Aquatic Fauna (B13)                                                               |                                                                        | <input checked="" type="checkbox"/> Microtopographic Relief (D4)   |   |
|                                                                                                            |                                                                        | <input checked="" type="checkbox"/> FAC-neutral Test (D5)          |   |
| <b>Field Observations:</b>                                                                                 |                                                                        |                                                                    |   |
| Surface Water Present?                                                                                     | Yes <input type="radio"/> No <input checked="" type="radio"/>          | Depth (inches):                                                    |   |
| Water Table Present?                                                                                       | Yes <input type="radio"/> No <input checked="" type="radio"/>          | Depth (inches):                                                    |   |
| Saturation Present?<br>(includes capillary fringe)                                                         | Yes <input checked="" type="radio"/> No <input type="radio"/>          | Depth (inches):                                                    | 3 |
| Wetland Hydrology Present?                                                                                 |                                                                        | Yes <input checked="" type="radio"/> No <input type="radio"/>      |   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |                                                                        |                                                                    |   |
| Remarks:<br>hydrology comes from small intermittent stream                                                 |                                                                        |                                                                    |   |

**VEGETATION (Five/Four Strata)- Use scientific names of plants.**Sampling Point: w-mdt-072516-01

| Tree Stratum                  | (Plot size: _____ )           | Absolute<br>% Cover | Dominant<br>Species?<br>Rel.Strat.<br>Cover | Indicator<br>Status |
|-------------------------------|-------------------------------|---------------------|---------------------------------------------|---------------------|
| 1.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 2.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 3.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 4.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 5.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 6.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 7.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 8.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
|                               |                               | 0                   | <b>= Total Cover</b>                        |                     |
| Sapling-Sapling/Shrub Stratum |                               | (Plot size: _____ ) |                                             |                     |
| 1.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 2.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 3.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 4.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 5.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 6.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 7.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 8.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 9.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 10.                           |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
|                               |                               | 0                   | <b>= Total Cover</b>                        |                     |
| Shrub Stratum                 |                               | (Plot size: _____ ) |                                             |                     |
| 1.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 2.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 3.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 4.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 5.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 6.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 7.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
|                               |                               | 0                   | <b>= Total Cover</b>                        |                     |
| Herb Stratum                  |                               | (Plot size: _____ ) |                                             |                     |
| 1.                            | <u>Eupatorium perfoliatum</u> | 5                   | <input type="checkbox"/> 5.0%               | FACW                |
| 2.                            | <u>Leersia oryzoides</u>      | 95                  | <input checked="" type="checkbox"/> 95.0%   | OBL                 |
| 3.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 4.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 5.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 6.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 7.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 8.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 9.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 10.                           |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 11.                           |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 12.                           |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
|                               |                               | 100                 | <b>= Total Cover</b>                        |                     |
| Woody Vine Stratum            |                               | (Plot size: _____ ) |                                             |                     |
| 1.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 2.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 3.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 4.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 5.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
| 6.                            |                               | 0                   | <input type="checkbox"/> 0.0%               |                     |
|                               |                               | 0                   | <b>= Total Cover</b>                        |                     |

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

**Dominance Test worksheet:**

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: 100.0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of: 95 Multiply by: 1

**OBL species** 95 x **1** = 95

**FACW species** 5 x **2** = 10

**FAC species** 0 x **3** = 0

**FACU species** 0 x **4** = 0

**UPL species** 0 x **5** = 0

**Column Totals:** 100 (A) 105 (B)

Prevalence Index = B/A = 1.050

**Hydrophytic Vegetation Indicators:**

- ☒ **Rapid Test for Hydrophytic Vegetation**
- ☒ **Dominance Test is > 50%**
- ☒ **Prevalence Index is ≤ 3.0 <sup>1</sup>**
- ☐ **Morphological Adaptations <sup>1</sup> (Provide supporting 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.

**Definition of Vegetation Strata:****Four Vegetation Strata:**

**Tree stratum** – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub stratum** – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

**Herb stratum** – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.

**Woody vines** – Consists of all woody vines greater than 3.28 ft in height.

**Five Vegetation Strata:**

**Tree - Woody plants**, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

**Sapling stratum** – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

**Shrub stratum** – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

**Herb stratum** – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height.

**Woody vines** – Consists of all woody vines, regardless of height.

**Hydrophytic  
Vegetation  
Present?**

Yes ☒ No ☐

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

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

|                                                                         |                                                                        |
|-------------------------------------------------------------------------|------------------------------------------------------------------------|
| <input type="checkbox"/> Histosol (A1)                                  | <input type="checkbox"/> Dark Surface (S7)                             |
| <input type="checkbox"/> Histic Epipedon (A2)                           | <input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148)   |
| <input type="checkbox"/> Black Histic (A3)                              | <input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                          | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                      |
| <input type="checkbox"/> Stratified Layers (A5)                         | <input checked="" type="checkbox"/> Depleted Matrix (F3)               |
| <input type="checkbox"/> 2 cm Muck (A10) (LRR N)                        | <input type="checkbox"/> Redox Dark Surface (F6)                       |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)              | <input type="checkbox"/> Depleted Dark Surface (F7)                    |
| <input type="checkbox"/> Thick Dark Surface (A12)                       | <input type="checkbox"/> Redox Depressions (F8)                        |
| <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                       | <input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)          |
| <input type="checkbox"/> Sandy Redox (S5)                               | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)    |
| <input type="checkbox"/> Stripped Matrix (S6)                           | <input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)     |

☐ 2 cm Muck (A10) (MLRA 147)

☐ Coast Prairie Redox (A16)  
(MLRA 147,148)

☐ Piedmont Floodplain Soils (F19)  
(MLRA 136, 147)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks:

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

|                                      |                              |                                       |                |                 |                 |        |       |
|--------------------------------------|------------------------------|---------------------------------------|----------------|-----------------|-----------------|--------|-------|
| Project/Site:                        | Tidd-Gable Transmission Line | City/County:                          | Jefferson      | Sampling Date:  | 25-Jul-16       |        |       |
| Applicant/Owner:                     | AEP                          | State:                                | OH             | Sampling Point: | w-mdt-072516-02 |        |       |
| Investigator(s):                     | MDT, JTT                     | Section, Township, Range:             | S 22 T 5N R 2W |                 |                 |        |       |
| Landform (hillslope, terrace, etc.): | Valley bottom                | Local relief (concave, convex, none): | concave        | Slope:          | 0.0% / 0.0 °    |        |       |
| Subregion (LRR or MLRA):             | LRR N                        | Lat.:                                 | 40.247938      | Long.:          | -80.710169      | Datum: | NAD83 |
| Soil Map Unit Name:                  | MrF                          | NWI classification:                   | PUBGh          |                 |                 |        |       |

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

## Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

|                                                                                   |                                                               |                                       |                                                               |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------|
| Hydrophytic Vegetation Present?                                                   | Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? | Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Hydric Soil Present?                                                              | Yes <input type="radio"/> No <input checked="" type="radio"/> |                                       |                                                               |
| Wetland Hydrology Present?                                                        | Yes <input checked="" type="radio"/> No <input type="radio"/> |                                       |                                                               |
| Remarks:<br>PEM in strip mine land between Stream hh-mdt-072516-02 and large pond |                                                               |                                       |                                                               |

## Hydrology

|                                                                                                            |                                                                        |                                                                    |      |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|------|
| <b>Wetland Hydrology Indicators:</b>                                                                       |                                                                        | <u>Secondary Indicators (minimum of two required)</u>              |      |
| <u>Primary Indicators (minimum of one required; check all that apply)</u>                                  |                                                                        |                                                                    |      |
| <input checked="" type="checkbox"/> Surface Water (A1)                                                     | <input type="checkbox"/> True Aquatic Plants (B14)                     | <input type="checkbox"/> Surface Soil Cracks (B6)                  |      |
| <input type="checkbox"/> High Water Table (A2)                                                             | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                    | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   |      |
| <input type="checkbox"/> Saturation (A3)                                                                   | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input checked="" type="checkbox"/> Drainage Patterns (B10)        |      |
| <input type="checkbox"/> Water Marks (B1)                                                                  | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Moss Trim Lines (B16)                     |      |
| <input type="checkbox"/> Sediment Deposits (B2)                                                            | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Dry Season Water Table (C2)               |      |
| <input type="checkbox"/> Drift deposits (B3)                                                               | <input type="checkbox"/> Thin Muck Surface (C7)                        | <input type="checkbox"/> Crayfish Burrows (C8)                     |      |
| <input type="checkbox"/> Algal Mat or Crust (B4)                                                           | <input type="checkbox"/> Other (Explain in Remarks)                    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |      |
| <input type="checkbox"/> Iron Deposits (B5)                                                                |                                                                        | <input type="checkbox"/> Stunted or Stressed Plants (D1)           |      |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)                                         |                                                                        | <input checked="" type="checkbox"/> Geomorphic Position (D2)       |      |
| <input type="checkbox"/> Water-Stained Leaves (B9)                                                         |                                                                        | <input type="checkbox"/> Shallow Aquitard (D3)                     |      |
| <input type="checkbox"/> Aquatic Fauna (B13)                                                               |                                                                        | <input type="checkbox"/> Microtopographic Relief (D4)              |      |
|                                                                                                            |                                                                        | <input checked="" type="checkbox"/> FAC-neutral Test (D5)          |      |
| <b>Field Observations:</b>                                                                                 |                                                                        |                                                                    |      |
| Surface Water Present?                                                                                     | Yes <input checked="" type="radio"/> No <input type="radio"/>          | Depth (inches):                                                    | 0.25 |
| Water Table Present?                                                                                       | Yes <input type="radio"/> No <input checked="" type="radio"/>          | Depth (inches):                                                    |      |
| Saturation Present?<br>(includes capillary fringe)                                                         | Yes <input type="radio"/> No <input checked="" type="radio"/>          | Depth (inches):                                                    |      |
| Wetland Hydrology Present?                                                                                 |                                                                        | Yes <input checked="" type="radio"/> No <input type="radio"/>      |      |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |                                                                        |                                                                    |      |
| Remarks:                                                                                                   |                                                                        |                                                                    |      |

**VEGETATION (Five/Four Strata)- Use scientific names of plants.**Sampling Point: w-mdt-072516-02

| Tree Stratum (Plot size: _____ )                  |    | Absolute % Cover                    | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---------------------------------------------------|----|-------------------------------------|------------------------------------|------------------|
| 1. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 2. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 3. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 4. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 5. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 6. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 7. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 8. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
|                                                   |    | 0                                   | <b>= Total Cover</b>               |                  |
| Sapling-Sapling/Shrub Stratum (Plot size: _____ ) |    | Absolute % Cover                    | Dominant Species? Rel.Strat. Cover | Indicator Status |
| 1. <u>Salix nigra</u>                             | 15 | <input checked="" type="checkbox"/> | 75.0%                              | OBL              |
| 2. <u>Platanus occidentalis</u>                   | 5  | <input checked="" type="checkbox"/> | 25.0%                              | FACW             |
| 3. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 4. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 5. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 6. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 7. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 8. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 9. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 10. _____                                         | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
|                                                   |    | 20                                  | <b>= Total Cover</b>               |                  |
| Shrub Stratum (Plot size: _____ )                 |    | Absolute % Cover                    | Dominant Species? Rel.Strat. Cover | Indicator Status |
| 1. <u>Salix nigra</u>                             | 25 | <input checked="" type="checkbox"/> | 50.0%                              | OBL              |
| 2. <u>Franqua alnus</u>                           | 10 | <input checked="" type="checkbox"/> | 20.0%                              | FAC              |
| 3. <u>Elaeagnus umbellata</u>                     | 15 | <input checked="" type="checkbox"/> | 30.0%                              | UPL              |
| 4. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 5. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 6. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 7. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
|                                                   |    | 50                                  | <b>= Total Cover</b>               |                  |
| Herb Stratum (Plot size: _____ )                  |    | Absolute % Cover                    | Dominant Species? Rel.Strat. Cover | Indicator Status |
| 1. <u>Typha angustifolia</u>                      | 40 | <input checked="" type="checkbox"/> | 19.0%                              | OBL              |
| 2. <u>Phalaris arundinacea</u>                    | 45 | <input checked="" type="checkbox"/> | 21.4%                              | FACW             |
| 3. <u>Asclepias incarnata</u>                     | 5  | <input type="checkbox"/>            | 2.4%                               | OBL              |
| 4. <u>Alisma subcordatum</u>                      | 5  | <input type="checkbox"/>            | 2.4%                               | OBL              |
| 5. <u>Eupatorium perfoliatum</u>                  | 10 | <input type="checkbox"/>            | 4.8%                               | FACW             |
| 6. <u>Schoenoplectus tabernaemontani</u>          | 30 | <input type="checkbox"/>            | 14.3%                              | OBL              |
| 7. <u>Carex vulpinoidea</u>                       | 40 | <input checked="" type="checkbox"/> | 19.0%                              | OBL              |
| 8. <u>Dipsacus fullonum</u>                       | 10 | <input type="checkbox"/>            | 4.8%                               | FACU             |
| 9. <u>Carex lurida</u>                            | 25 | <input type="checkbox"/>            | 11.9%                              | OBL              |
| 10. _____                                         | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 11. _____                                         | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 12. _____                                         | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
|                                                   |    | 210                                 | <b>= Total Cover</b>               |                  |
| Woody Vine Stratum (Plot size: _____ )            |    | Absolute % Cover                    | Dominant Species? Rel.Strat. Cover | Indicator Status |
| 1. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 2. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 3. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 4. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 5. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
| 6. _____                                          | 0  | <input type="checkbox"/>            | 0.0%                               | _____            |
|                                                   |    | 0                                   | <b>= Total Cover</b>               |                  |

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

**Dominance Test worksheet:**Number of Dominant Species That are OBL, FACW, or FAC: 7 (A)Total Number of Dominant Species Across All Strata: 8 (B)Percent of dominant Species That Are OBL, FACW, or FAC: 87.5% (A/B)**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_

OBL species 185 x 1 = 185FACW species 60 x 2 = 120FAC species 10 x 3 = 30FACU species 10 x 4 = 40UPL species 15 x 5 = 75Column Totals: 280 (A) 450 (B)Prevalence Index = B/A = 1.607**Hydrophytic Vegetation Indicators:**☐ Rapid Test for Hydrophytic Vegetation☒ Dominance Test is > 50%☒ Prevalence Index is ≤3.0 <sup>1</sup>☐ Morphological Adaptations <sup>1</sup> (Provide supporting 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.**Definition of Vegetation Strata:****Four Vegetation Strata:**

Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.

Woody vines – Consists of all woody vines greater than 3.28 ft in height.

**Five Vegetation Strata:**

Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vines – Consists of all woody vines, regardless of height.

**Hydrophytic Vegetation Present?**Yes ☒ No ☐

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

### Hydric Soil Indicators:

- ### Indicators for Problematic Hydric Soils<sup>3</sup>:

- ☐ 2 cm Muck (A10) (MLRA 147)
- ☐ Coast Prairie Redox (A16)  
(MLRA 147,148)
- ☐ Piedmont Floodplain Soils (F19)  
(MLRA 136, 147)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

**Restrictive Layer (if observed):**

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☐ No ☒

Remarks:

US Army Corps of Engineers

**ATTACHMENT A.2**

**OHIO RAPID ASSESSMENT METHOD (ORAM) FORMS**

## Wetland 01

|                            |                       |                  |
|----------------------------|-----------------------|------------------|
| Site: AEP Tidd-Gable Tline | Rater(s): M.Thomayer; | Date: 7/25//2016 |
|----------------------------|-----------------------|------------------|

|   |   |
|---|---|
| 1 | 1 |
|---|---|

max 6 pts

subtotal

**Metric 1. Wetland Area (size).**

Field Id:

w-mdt-07/25/2016-1

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)

 acres

|   |   |
|---|---|
| 1 | 2 |
|---|---|

max 14 pts.

subtotal

**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)

**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), shrubland, 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)

|      |      |
|------|------|
| 10.0 | 12.0 |
|------|------|

max 30 pts.

subtotal

**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)

**3c. Maximum water depth. Select one.**

- ☐ >0.7 (27.6in) (3)  
☐ 0.4 to 0.7m (15.7 to 27.6in) (2)  
☒ <0.4m (<15.7in) (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)

**3b. Connectivity. Score all that apply.**

- ☐ 100 year floodplain (1)  
☐ Between stream/lake and other human use (1)  
☐ Part of wetland/upland (e.g. forest), complex (1)  
☒ Part of riparian or upland corridor (1)

**3d. Duration inundation/saturation. Score one or dbl check.**

- ☐ Semi- to permanently inundated/saturated (4)  
☐ Regularly inundated/saturated (3)  
☐ Seasonally inundated (2)  
☒ Seasonally saturated in upper 30cm (12in) (1)

**Check all disturbances observed**

- |                                           |                                                       |
|-------------------------------------------|-------------------------------------------------------|
| <input type="checkbox"/> ditch            | <input type="checkbox"/> point source (nonstormwater) |
| <input type="checkbox"/> tile             | <input checked="" type="checkbox"/> filling/grading   |
| <input type="checkbox"/> dike             | <input type="checkbox"/> road bed/RR track            |
| <input type="checkbox"/> weir             | <input type="checkbox"/> dredging                     |
| <input type="checkbox"/> stormwater input | <input type="checkbox"/> Other:                       |

|     |      |
|-----|------|
| 4.5 | 16.5 |
|-----|------|

max 20 pts.

subtotal

**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)  
☒ Recovering (3)  
☒ Recent or no recovery (1)

**Check all disturbances observed**

- |                                                       |                                                           |
|-------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> mowing            | <input checked="" type="checkbox"/> shrub/sapling removal |
| <input checked="" type="checkbox"/> grazing           | <input type="checkbox"/> herbaceous/aquatic bed removal   |
| <input type="checkbox"/> clearcutting                 | <input checked="" type="checkbox"/> sedimentation         |
| <input checked="" type="checkbox"/> selective cutting | <input type="checkbox"/> dredging                         |
| <input type="checkbox"/> woody debris removal         | <input type="checkbox"/> farming                          |
| <input type="checkbox"/> toxic pollutants             | <input type="checkbox"/> nutrient enrichment              |

**16.5**

subtotal this page

ORAM v. 5.0 Field Form Quantitative Rating

## Wetland 01

|                            |                       |                  |
|----------------------------|-----------------------|------------------|
| Site: AEP Tidd-Gable Tline | Rater(s): M.Thomayer; | Date: 7/25//2016 |
|----------------------------|-----------------------|------------------|

16.5

subtotal this page

Field Id:

w-mdt-07/25/2016-1

0 16.5

max 10 pts.

subtotal

**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 5 Qualitative Rating (-10)

-1 15.5

max 20pts.

subtotal

**Metric 6. Plant communities, interspersions, microtopography.****6a. Wetland Vegetation Communities.**

Score all present using 0 to 3 scale.

- ☐ Aquatic bed  
☒ 1 Emergent  
☐ Shrub  
☐ Forest  
☐ Mudflats  
☐ Open water  
☐ Other

**6b. horizontal (plan view) Interspersion.**

Select only one.

- ☐ High (5)  
☐ Moderately high(4)  
☐ Moderate (3)  
☐ Moderately low (2)  
☐ Low (1)  
☒ X None (0)

**6c. Coverage of invasive plants. Refer**

Table 1 ORAM long form for list. Add or deduct points for coverage

- ☐ Extensive >75% cover (-5)  
☒ X 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.

- ☒ 1 Vegetated hummocks/tussucks  
☐ Coarse woody debris >15cm (6in)  
☐ Standing dead >25cm (10in) dbh  
☐ Amphibian breeding pools

**Vegetation Community Cover Scale**

- |   |                                                                                                                                                     |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 0 | Absent or comprises <0.1ha (0.2471 acres) contiguous area                                                                                           |
| 1 | Present and either comprises small part of wetland's 1 vegetation and is of moderate quality, or comprises a significant part but is of low quality |
| 2 | Present and either comprises significant part of wetland's 2 vegetation and is of moderate quality or comprises a small part and is of high quality |
| 3 | Present and comprises significant part, or more, of wetland's 3 vegetation and is of high quality                                                   |

**Narrative Description of Vegetation Quality**

Low spp diversity and/or predominance of nonnative or low disturbance tolerant native species

Native spp are dominant component of the vegetation, mod 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 to

A predominance of native species, with nonnative spp high 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 to 2.47 acres)   |
| 2 | Moderate 1 to <4ha (2.47 to 9.88 acres) |
| 3 | High 4ha (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 and of highest quality                                  |

Category 1

15.5 GRAND TOTAL(max 100 pts)

**Wetland 02**

Site: AEP Tidd-Gable Tline

Rater(s): M.Thomayer; Jason Tucker

Date:

7/25/2016

|   |   |
|---|---|
| 2 | 2 |
|---|---|

max 6 pts

subtotal

**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)

Field Id:

w-mdt-07/25/2016-2

0.51 acres

|   |   |
|---|---|
| 7 | 9 |
|---|---|

max 14 pts.

subtotal

**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)

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), shrubland, 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)

|      |      |
|------|------|
| 12.0 | 21.0 |
|------|------|

max 30 pts.

subtotal

**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)

3c. Maximum water depth. Select one.

- ☐ >0.7 (27.6in) (3)  
☐ 0.4 to 0.7m (15.7 to 27.6in) (2)  
☒ <0.4m (<15.7in) (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)

3b. Connectivity. Score all that apply.

- ☐ 100 year floodplain (1)  
☐ Between stream/lake and other human use (1)  
☐ Part of wetland/upland (e.g. forest), complex (1)  
☒ Part of riparian or upland corridor (1)

3d. Duration inundation/saturation. Score one or dbl check.

- ☐ Semi- to permanently inundated/saturated (4)  
☐ Regularly inundated/saturated (3)  
☐ Seasonally inundated (2)  
☒ Seasonally saturated in upper 30cm (12in) (1)

Check all disturbances observed

- |                                           |                                                       |
|-------------------------------------------|-------------------------------------------------------|
| <input type="checkbox"/> ditch            | <input type="checkbox"/> point source (nonstormwater) |
| <input type="checkbox"/> tile             | <input checked="" type="checkbox"/> filling/grading   |
| <input type="checkbox"/> dike             | <input type="checkbox"/> road bed/RR track            |
| <input type="checkbox"/> weir             | <input checked="" type="checkbox"/> dredging          |
| <input type="checkbox"/> stormwater input | <input type="checkbox"/> Other:                       |

|   |    |
|---|----|
| 8 | 29 |
|---|----|

max 20 pts.

subtotal

**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)  
☒ Recovering (3)  
☐ Recent or no recovery (1)

Check all disturbances observed

- |                                                       |                                                           |
|-------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> mowing            | <input checked="" type="checkbox"/> shrub/sapling removal |
| <input type="checkbox"/> grazing                      | <input type="checkbox"/> herbaceous/aquatic bed removal   |
| <input checked="" type="checkbox"/> clearcutting      | <input checked="" type="checkbox"/> sedimentation         |
| <input checked="" type="checkbox"/> selective cutting | <input checked="" type="checkbox"/> dredging              |
| <input type="checkbox"/> woody debris removal         | <input type="checkbox"/> farming                          |
| <input type="checkbox"/> toxic pollutants             | <input type="checkbox"/> nutrient enrichment              |

29

subtotal this page ORAM v. 5.0 Field Form Quantitative Rating

**Wetland 02**

Site: AEP Tidd-Gable Tline

Rater(s): M.Thomayer; Jason Tucker

Date:

7/25/2016

Field Id:

w-mdt-07/25/2016-2

29

subtotal this page

0

29

max 10 pts.

subtotal

**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 5 Qualitative Rating (-10)

-1

28

max 20pts.

subtotal

**Metric 6. Plant communities, interspersions, microtopography.****6a. Wetland Vegetation Communities.**

Score all present using 0 to 3 scale.

- ☐ Aquatic bed  
☒ 1 Emergent  
☐ Shrub  
☐ Forest  
☐ Mudflats  
☐ Open water  
☐ Other

**6b. horizontal (plan view) Interspersion.**

Select only one.

- ☐ High (5)  
☐ Moderately high(4)  
☐ Moderate (3)  
☐ Moderately low (2)  
☐ Low (1)  
☒ x None (0)

**6c. Coverage of invasive plants. Refer**

Table 1 ORAM long form for list. Add or deduct points for coverage

- ☐ Extensive >75% cover (-5)  
☒ x 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.

- ☒ 1 Vegetated hummocks/tussucks  
☐ Coarse woody debris >15cm (6in)  
☐ Standing dead >25cm (10in) dbh  
☐ Amphibian breeding pools

**Vegetation Community Cover Scale**

- 0 Absent or comprises <0.1ha (0.2471 acres) contiguous area  
 1 Present and either comprises small part of wetland's 1 vegetation and is of moderate quality, or comprises a significant part but is of low quality  
 2 Present and either comprises significant part of wetland's 2 vegetation and is of moderate quality or comprises a small part and is of high quality  
 3 Present and comprises significant part, or more, of wetland's 3 vegetation and is of high quality

**Narrative Description of Vegetation Quality**

Low spp diversity and/or predominance of nonnative or low disturbance tolerant native species

Native spp are dominant component of the vegetation, mod 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 to

A predominance of native species, with nonnative spp high 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 to 2.47 acres)  
 2 Moderate 1 to <4ha (2.47 to 9.88 acres)  
 3 High 4ha (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 and of highest quality

Category 1

28 GRAND TOTAL(max 100 pts)

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

**Commission of Ohio Docketing Information System on**

**9/1/2016 4:25:21 PM**

**in**

**Case No(s). 16-1526-EL-BLN**

Summary: Letter of Notification - Part 4 of 6 electronically filed by Mrs. Erin C Miller on behalf of AEP Ohio Transmission Company