APPENDIX A

U.S. ARMY CORPS OF ENGINEERS WETLAND FORMS

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside City/C	Carroll County Sampling Date: 27-Apr-17
Applicant/Owner: AEP	State: OH Sampling Point: W-PJR-042717-01
Investigator(s): PJR, LCB Section	n, Township, Range: S 33 T 14N R 5W
Landform (hillslope, terrace, etc.): Swale Local re	lief (concave, convex, none): Slope: / °
Subregion (LRR or MLRA): LRR N Lat.: 40.592	298 Long.: -81.091185 Datum: NAD83
Soil Map Unit Name: WmC	NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for this time of year? Y Are Vegetation , Soil , or Hydrology significantly distur Are Vegetation , Soil , or Hydrology naturally problema	

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	
Remarks:				
PEM wetland				

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)			✓ Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	l Imagery (I	B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)	1			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	0	0		
Surface Water Present?	Yes \bigcirc	No 🖲	Depth (inches): 0	
Water Table Present?	$_{ m Yes}$ \bigcirc	No 🖲	Depth (inches): 0	
Saturation Present? (includes capillary fringe)	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches):0	l Hydrology Present? Yes 🖲 No 🔾
	ream gaug	je, monito	ring well, aerial photos, previous inspections), if	f available:
Remarks:				

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant — Species?		Sampling Point: W-PJR-042717-01		
	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:		
Tree Stratum (Plot size:)			Status	Number of Dominant Species		
1	0	0.0%		That are OBL, FACW, or FAC: (A)		
2		0.0%		Total Number of Dominant		
3		0.0%		Species Across All Strata: (B)		
4 5.		0.0%		Percent of dominant Species		
6		0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
7		0.0%		Prevalence Index worksheet:		
8.	0	0.0%		Total % Cover of: Multiply by:		
	0 :	= Total Cove		OBL species 10 x 1 = 10		
Sapling-Sapling/Shrub Stratum (Plot size:)	□		FACW species 90 x 2 = 180		
1		0.0%		FAC species $10 \times 3 = 30$		
2		0.0%	·	FACU species $0 \times 4 = 0$		
3	-	0.0%		UPL species $0 \times 5 = 0$		
4		0.0%		Column Totals:110 (A)220 (B)		
5		0.0%				
67		0.0%		Prevalence Index = B/A =2.000		
7 8		0.0%		Hydrophytic Vegetation Indicators:		
9		0.0%		✓ Rapid Test for Hydrophytic Vegetation		
10		0.0%		✓ Dominance Test is > 50%		
		= Total Cove		✓ Prevalence Index is $\leq 3.0^{-1}$		
<u>Shrub Stratum</u> (Plot size:) 1		0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
2		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must		
4	0	0.0%		be present, unless disturbed or problematic.		
5	0	0.0%		Definition of Vegetation Strata:		
6	0	0.0%		Four Vegetation Strata:		
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),		
Herb Stratum (Plot size:)	0 :	= Total Cove	r	regardless of height.		
1. Phalaris arundinacea	90	81.8%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
2. Typha angustifolia	10	9.1%	OBL	Herb stratum - Consists of all herbaceous (non-woody) plant		
3. <u>Rumex crispus</u>	10	9.1%	FAC	regardless of size, and all other plants less than 3.28 ft tall.		
4		0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft in height.		
5		0.0%				
6		0.0%		Five Vegetation Strata:		
7		0.0%		Tree - Woody plants, excluding woody vines, approximately 20		
8		0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).		
9		0.0%		Sapling stratum – Consists of woody plants, excluding woody		
10		0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.		
11		0.0%		Shrub stratum – Consists of woody plants, excluding woody		
12	<u>0</u> 110 :	0.0% = Total Cove		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		
1	0	0.0%		species, except woody vines, less than approximately 3 ft (1		
2		0.0%		m) in height.		
3		0.0%		Woody vines – Consists of all woody vines, regardless of height.		
4		0.0%				
5	0	0.0%		Hydrophytic		
6	0	0.0%		Vegetation Present? Yes O No O		
Remarks: (Include photo numbers here or on a separate sh			•			

W	et	lai	nd	01

	ription: (Describe Matı			t the indicators the second		nfirm the a	bsence of indicators.)					
Depth (inches)	Color (moist		Color (moist)	www.cox reatu	Tvpe ¹	Loc ²	Texture	Remarks				
0-4	10YR 4/2	100					Silt Loam					
			10/0 5/4				· · · · · · · · · · · · · · · · · · ·					
4-16	10YR 5/1		10YR 5/4	15	C	M	Silt Loam					
	-						,					
1												
		letion. RM=Redu	uced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=Matrix					
Hydric Soil 1	Indicators:						Indicators for Problema	tic Hydric Soils ³ :				
Histosol (A1)		Dark Surface (S7)			2 cm Muck (A10) (ML	RΔ 147)				
Histic Epi	pedon (A2)		Polyvalue Belo	w Surface ((S8) (MLRA	147,148)						
Black Hist	tic (A3)		Thin Dark Surf	ace (S9) (M	ILRA 147, 1	48)	Coast Prairie Redox ((MLRA 147,148)	416)				
Hydrogen	n Sulfide (A4)		Loamy Gleyed	Matrix (F2)				C-!!- (F10)				
Stratified	Layers (A5)		Depleted Matri				Piedmont Floodplain (MLRA 136, 147)	5011S (F19)				
_	uck (A10) (LRR N) Redox Dark Surface (F6)						urfaco (TE12)					
_	Below Dark Surfac	ο (Λ11)	Depleted Dark	. ,	7)		Very Shallow Dark Surface (TF12)					
	k Surface (A12)	e (ATT)	Redox Depress		,		Uther (Explain in Remarks)					
			Iron-Manganes		F12) (I RR I	N						
MLRA 147	uck Mineral (S1) (LF 7, 148)	KK N,	MLRA 136)	<i>ie masses</i> (1 12) (LIUU	•,						
	Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)		2)									
Sandy Bit					³ Indicators of hyd	rophytic vegetation and						
	Matrix (S6)		Red Parent Ma					ogy must be present,				
					IVILKA 12	7, 147)	unless disturbed or problematic.					
Restrictive L	ayer (if observed	:										
Туре:								Yes 🔍 No 🔾				
Depth (inc	hes):						Hydric Soil Present?	Yes 🔍 No 🔾				
Remarks:												

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County:	Carroll County	Samplir	ng Date: 27-Apr-17
Applicant/Owner: AEP		State: OH	Sampling Poin	nt: W-PJR-042717-02
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S 3	T _15N	R _6W
Landform (hillslope, terrace, etc.): Hillside	Local relief (co	ncave, convex, none)	: concave	Slope: <u>10.0%</u> / <u>5.7</u> °
Subregion (LRR or MLRA):	40.597233	Long.:	-81.099249	Datum: NAD83
Soil Map Unit Name: WmD			NWI classification:	N/A
	ear? Yes • tly disturbed? problematic?	Are "Normal Circ	lain in Remarks.) umstances" present? iin any answers in Re	

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

Hydrophytic Vegetation Present?	Yes 💿	No O			
Hydric Soil Present?	Yes 🖲	No O	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔾	
Wetland Hydrology Present?	Yes 🖲	No 🔾	within a wetland?		
Remarks:					
PEM wetland					

Wetland Hydrology Indicators:			_Secondary Indicators (minimum of two required)
Primary Indicators (minimum of	one required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imag	ery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	● No 〇	Depth (inches): 2	
Water Table Present? Yes	• No O	Depth (inches): 0	Ivdrology Present? Yes 💿 No 🔾
Saturation Present? (includes capillary fringe) Yes	● _{No} ○	Wetland H	lydrology Present? Yes 🔍 No 🔾
Describe Recorded Data (stream	gauge, monito	ring well, aerial photos, previous inspections), if a	vailable:
Remarks:			
			1

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant —Species? –		Sampling Point: <u>W-PJR-042717-02</u>
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3		0.0%		Species Across All Strata: (B)
4	-	0.0%		Percent of dominant Species
5		0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6		0.0%		
7		0.0%		Prevalence Index worksheet:
8	0	0.0%		Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum_ (Plot size:) :	= Total Cover		OBL species x 1 =
1		0.0%		FACW species <u>90</u> x 2 = <u>180</u>
2.	_	0.0%		FAC speci es 15 x 3 = 45
3		0.0%		FACU species $0 \times 4 = 0$
4.		0.0%		UPL species x 5 =
5.	_	0.0%		Column Totals: <u>105</u> (A) <u>225</u> (B)
6		0.0%		Prevalence Index = B/A = 2.143
7		0.0%		
8.	_	0.0%		Hydrophytic Vegetation Indicators:
9		0.0%		✓ Rapid Test for Hydrophytic Vegetation
10		0.0%		✓ Dominance Test is > 50%
		= Total Cover		✓ Prevalence Index is $\leq 3.0^{-1}$
<u>Shrub Stratum</u> (Plot size:) 1	0	0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4		0.0%		be present, unless disturbed or problematic.
5		0.0%		Definition of Vegetation Strata:
6		0.0%		Four Vegetation Strata:
7.	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= Total Cover		regardless of height.
4	35	33.3%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding
1. Juncus effusus 2. Scirpus cyperinus	55	 ✓ 53.3% ✓ 52.4% 	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Rumex crispus	- <u>- 35</u> 15	14.3%	FAC	regardless of size, and all other plants less than 3.28 ft tall.
4	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
5	0	0.0%		in height.
6		0.0%		
7		0.0%		Five Vegetation Strata:
8	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
	0	0.0%		diameter at breast height (DBH).
9	0	0.0%		Sapling stratum – Consists of woody plants, excluding woody
11		0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
12		0.0%		Shrub stratum – Consists of woody plants, excluding woody
		= Total Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)				Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1	0	0.0%		species, except woody vines, less than approximately 3 ft (1
2	0	0.0%	<u> </u>	m) in height.
3		0.0%	<u> </u>	Woody vines – Consists of all woody vines, regardless of height.
4		0.0%		
5	0	0.0%		Hydrophytic
6	0	0.0%		Vegetation Present? Yes • No ·
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate she	et.)			

Hydric Soil Ind Histosol (A1) Histic Epiped	icators:	90 90 	Color (moist) 10YR 5/6		1 	M	Texture Silty Clay Loam	Rem	aarks
Type: C=Concen Histosol (A1) Histic Epiped	tration. D=Depletion		10YR 5/6		C		Silty Clay Loam		
Hydric Soil Ind Histosol (A1) Histic Epiped	icators:	n. RM=Redu							
Hydric Soil Ind Histosol (A1) Histic Epiped	icators:	n. RM=Redu							
Hydric Soil Ind Histosol (A1) Histic Epiped	icators:	n. RM=Redu					· · · · · · · · · · · · · · · · · · ·		
Hydric Soil Ind Histosol (A1) Histic Epiped	icators:	n. RM=Redu					·		
Hydric Soil Ind Histosol (A1) Histic Epiped	icators:	n. RM=Redu			 				
Hydric Soil Ind Histosol (A1) Histic Epiped	icators:	n. RM=Redu					,m		
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Hydric Soil Ind Histosol (A1) Histic Epiped	icators:	n. RM=Redu		_					
lydric Soil Ind Histosol (A1) Histic Epiped	icators:	n. RM=Redu							
Hydric Soil Ind Histosol (A1) Histic Epiped	icators:	n. RM=Redu							
lydric Soil Ind Histosol (A1) Histic Epiped	icators:		ced Matrix. CS=Cover	ed or Coate	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=Ma	atrix	
Histosol (A1) Histic Epiped									- •• ³
Histic Epiped			Dark Surface ((57)			Indicators for Proble	-	c Soils ³ :
-			Polyvalue Belo		(S8) (MI RA	147,148)	2 cm Muck (A10)	(MLRA 147)	
Black Histic (Thin Dark Surf				Coast Prairie Redo	ox (A16)	
] Hydrogen Su			Loamy Gleyed			,	(MLRA 147,148)		
Stratified Lay			Depleted Matri				Piedmont Floodpla (MLRA 136, 147)	ain Soils (F19)	
 2 cm Muck (#			Redox Dark Su				Very Shallow Dark	(Surface (TE1	2)
_	ow Dark Surface (A	11)	Depleted Dark		7)				2)
Thick Dark S		,	Redox Depress				Other (Explain in I	Remarks)	
-	Mineral (S1) (LRR N		Iron-Manganes		F12) (LRR I	N,			
MLRA 147, 1	48)	,	MLRA 136)						
Sandy Gleyed	d Matrix (S4)		Umbric Surface	e (F13) (ML	.RA 136, 12	2)	3		
Sandy Redox	(S5)		Piedmont Floo	dplain Soils	(F19) (MLF	RA 148)	³ Indicators of h wetland hyd	hydrophytic ve rology must b	egetation and
Stripped Mat	rix (S6)		Red Parent Ma	nterial (F21)	(MLRA 12)	7, 147)		sturbed or prol	
	er (if observed):								
Type:							Hydric Soil Present?	Yes 🖲	No 🔿
):							100 -	110 -
emarks:									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County:	Carroll County	Samplin	ng Date: 27-Apr-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: W-PJR-042717-03
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S	T _15N	R _6W
Landform (hillslope, terrace, etc.): Hillside	Local relief (co	ncave, convex, none): none	Slope: <u>10.0%</u> / <u>5.7</u> °
Subregion (LRR or MLRA):	t.: 40.598218	Long.:	-81.101761	Datum: NAD83
Soil Map Unit Name: WmD			NWI classification:	N/A
	i year? Yes antly disturbed? y problematic?	Are "Normal Circ	lain in Remarks.) umstances" present? ain any answers in Re	

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM wetland				

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)			✓ Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery (I	B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9))			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	\sim	\sim		
Surface Water Present?	Yes 🖲	No \bigcirc	Depth (inches): 1	
Water Table Present?	$_{ m Yes}$ \bigcirc	No 💿		
	100 -	110 0	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes O	No 🖲	Depth (inches): Wetland	Hydrology Present? Yes 🖲 No 🔾
(includes capillary fringe)	$_{\rm Yes}$ \bigcirc	No 🖲	Wetland	
(includes capillary fringe)	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe)	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant —Species?		Sampling Point: <u>W-PJR-042717-03</u>
	Absolute	Rel.Strat.		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3	_	0.0%		Species Across All Strata:3_ (B)
4	-	0.0%		Percent of dominant Species
5		0.0%		That Are OBL, FACW, or FAC:100.0% (A/B)
6		0.0%		
7		0.0%		Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size:) :	= Total Cove	er	OBL species 0 x 1 = 0
1.		0.0%		FACW species <u>85</u> x 2 = <u>170</u>
2.	_	0.0%		FAC species $0 \times 3 = 0$
3.		0.0%		FACU species $0 \times 4 = 0$
4.		0.0%		UPL species $0 \times 5 = 0$
5.	_	0.0%		Column Totals: <u>85</u> (A) <u>170</u> (B)
6		0.0%		Prevalence Index = $B/A = 2.000$
7		0.0%		
8.	_	0.0%		Hydrophytic Vegetation Indicators: Image: Construction of the second s
9		0.0%		
10		0.0%		✓ Dominance Test is > 50%
		= Total Cove	er	✓ Prevalence Index is $\leq 3.0^{-1}$
<u>Shrub Stratum</u> (Plot size:) 1	0	0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4		0.0%		be present, unless disturbed or problematic.
5		0.0%		Definition of Vegetation Strata:
6		0.0%		Four Vegetation Strata:
7.	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.
Herb Stratum (Plot size:)	0 :	= Total Cove	er	(7.6 cm) or more in diameter at breast height (DBH), regardless of height.
· · · · ·	20	23.5%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding
Agrimonia parvifiora Carex annectens	40	✓ 23.3 %✓ 47.1%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3. Impatiens capensis	25	29.4%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
4	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
	0	0.0%		in height.
5		0.0%		
7		0.0%		Five Vegetation Strata:
8.	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	0.0%		diameter at breast height (DBH).
10	0	0.0%		Sapling stratum – Consists of woody plants, excluding woody
11		0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
12		0.0%		Shrub stratum – Consists of woody plants, excluding woody
		= Total Cove	er	vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)	0	0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1		0.0%		species, except woody vines, less than approximately 3 ft (1
2		0.0%		m) in height.
3		0.0%		Woody vines – Consists of all woody vines, regardless of height.
4		0.0%		-
5	0	0.0%		Hydrophytic
6	0	0.0%		Vegetation Present? Yes • No ·
		= Total Cove	ег	
Remarks: (Include photo numbers here or on a separate she	et.)			

Profile Desci	ription: (Describe to	the depth I	needed to documen	t the indic	ator or co	nfirm the a	bsence of indicators.)		
Depth	Matrix			dox Featu					
(inches)	Color (moist)	%	Color (moist)	%	Tvpe	Loc ²	Texture	Rema	rks
0-16	10YR 4/1	85	7.5YR 4/8	15	C	M	Silty Clay Loam		
			· ·						
¹ Type: C=Con	centration. D=Depletio	n. RM=Redu	iced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ains ² Locat	tion: PL=Pore Lining. M=M	atrix	
Hydric Soil	Indicators:						Indicators for Proble	ematic Hydric 9	Soils ³ :
Histosol ((A1)		Dark Surface	(S7)				-	
🗌 Histic Epi	pedon (A2)		Polyvalue Belo	w Surface	(S8) (MLRA	147,148)	2 cm Muck (A10)		
Black Hist	tic (A3)		Thin Dark Surf	face (S9) (N	ILRA 147 , 1	148)	Coast Prairie Red (MLRA 147,148)	ox (A16)	
Hydroger	n Sulfide (A4)		Loamy Gleyed	Matrix (F2))		Piedmont Floodpl	ain Soils (F19)	
Stratified	Layers (A5)		Depleted Matr	ix (F3)			(MLRA 136, 147)		
🗌 2 cm Muc	ck (A10) (LRR N)		Redox Dark Su	urface (F6)			Very Shallow Dar	k Surface (TF12)	
Depleted	Below Dark Surface (A	.11)	Depleted Dark		7)		Other (Explain in	Remarks)	
Thick Dar	rk Surface (A12)		Redox Depres						
Sandy Mu MLRA 14	uck Mineral (S1) (LRR N 7, 148)	١,	Iron-Mangane MLRA 136)	se Masses ((F12) (LRR	N,			
Sandy Gle	eyed Matrix (S4)		Umbric Surfac	e (F13) (MI	_RA 136, 12	22)	2		
Sandy Re	edox (S5)		Piedmont Floo	dplain Soils	(F19) (MLI	RA 148)	³ Indicators of wetland by:	hydrophytic vege Irology must be	etation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F21)) (MLRA 12	7, 147)	unless di	sturbed or proble	ematic.
	ayer (if observed):								
Type:							Hydric Soil Present?	Yes 🔍 🛚	No O
Depth (inc	:nes):							100 - 1	
Remarks:									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County: Ca	arroll County	Samplin	ng Date: 27-Apr-17
Applicant/Owner: AEP		State: OH	Sampling Poin	nt: W-PJR-042717-04
Investigator(s): PJR, LCB	Section, Townsh	ip, Range: S	T _15N	R _6W
Landform (hillslope, terrace, etc.): Hillside	Local relief (conca	ive, convex, none	concave	Slope: <u>5.0%</u> / <u>2.9</u> °
Subregion (LRR or MLRA):	40.601277	Long.:	-81.106576	Datum: NAD83
Soil Map Unit Name: WmC			NWI classification:	N/A
Are climatic/hydrologic conditions on the site typical for this time of y	vear? Yes 🖲 No	○ (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrology significan	tly disturbed?	Are "Normal Circ	umstances" present?	Yes $$ No \bigcirc
Are Vegetation, Soil, or Hydrology naturally	problematic?	(If needed, expla	ain any answers in Re	marks.)

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM wetland				

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)			✓ Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery (I	B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9))			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	\sim	\sim		
Surface Water Present?	Yes 🖲	No \bigcirc	Depth (inches): 1	
Water Table Present?	$Yes \bigcirc$	No 💿	Depth (inches):	
	103 0	NU O		
Saturation Present?	Yes O	No 🔍	Depth (inches): Wetland H	lydrology Present? Yes 🖲 No 🔾
Saturation Present? (includes capillary fringe)	$_{\rm Yes}$ \bigcirc	No 🖲	Wetland H	
Saturation Present? (includes capillary fringe)	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe)	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (st	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant —Species?		Sampling Point: W-PJR-042717-04
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Species
1		0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3	_	0.0%		Species Across All Strata:3 (B)
4	_	0.0%		Percent of dominant Species
5		0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6		0.0%		
7		0.0%		Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size:) :	= Total Cove	r	0BL species <u>0</u> x 1 = <u>0</u>
1.		0.0%		FACW species Y0 x 2 =180
2.		0.0%		FAC species $0 \times 3 = 0$
3.		0.0%		FACU species $0 \times 4 = 0$
4.		0.0%		UPL species $5 - x 5 = 25$
5.		0.0%		Column Totals: (A) (B)
6		0.0%		Prevalence Index = $B/A = 2.158$
7		0.0%		
8.	_	0.0%		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
9		0.0%		
10		0.0%		✓ Dominance Test is > 50%
		= Total Cove	r	✓ Prevalence Index is $\leq 3.0^{-1}$
<u>Shrub Stratum</u> (Plot size:) 1	0	0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4		0.0%		be present, unless disturbed or problematic.
5	0	0.0%		Definition of Vegetation Strata:
6		0.0%		Four Vegetation Strata:
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= Total Cove	r	regardless of height.
1. Phalaris arundinacea	40	42.1%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Juncus effusus	25	26.3%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Brassica rapa	5	5.3%	UPL	regardless of size, and all other plants less than 3.28 ft tall.
∠ Carex tribuloides	25	26.3%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft
5.	0	0.0%		in height.
6.	0	0.0%		Eive Vegetation Strates
7	0	0.0%		Five Vegetation Strata:
8.	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	0.0%		diameter at breast height (DBH).
10	0	0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
11	0	0.0%		than 3 in. (7.6 cm) DBH.
12.		0.0%		Shrub stratum – Consists of woody plants, excluding woody
Woody Vine Stratum (Plot size:)		= Total Cove	r	vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants,
	0	0.0%		including herbaceous vines, regardless of size, and woody
12		0.0%		species, except woody vines, less than approximately 3 ft (1 m) in height.
2	-	0.0%		Woody vines – Consists of all woody vines, regardless of
3	-	0.0%		height.
4				
5		0.0%		Hydrophytic
6	00	0.0%		Vegetation Present? Yes I No
Remarks: (Include photo numbers here or on a separate she				

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

Profile Desci	ription: (Describe to	the depth	needed to documen	t the indic	ator or co	nfirm the a	bsence of indicators.)		
Depth	Matrix			dox Featu					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remar	ks
0-16	10YR 4/1	90	10YR 4/4	10	C	M	Silty Clay Loam		
								-	
							·		
1 Turney C. Corr	contration D Doplatia	DM Dodu	and Matrix CS. Cover	ad or Coat	d Sand Cro	vinc 21 ocat	tion: DL Doro Lining M M	otriv	
	-	II. RIVI=REUL	iced Matrix, CS=COVER		eu sanu Gra	ans -Local	tion: PL=Pore Lining. M=M		
Hydric Soil I Histosol (Dark Surface	(57)			Indicators for Proble	ematic Hydric S	oils ³ :
	pedon (A2)		Polyvalue Belo	. ,	(S8) (MI RA	147 148)	2 cm Muck (A10)	(MLRA 147)	
Black Hist			Thin Dark Surf				Coast Prairie Rede	ox (A16)	
	n Sulfide (A4)		Loamy Gleyed			10)	(MLRA 147,148)		
	Layers (A5)		Depleted Matr		,		Piedmont Floodpl (MLRA 136, 147)	ain Soils (F19)	
	k (A10) (LRR N)		Redox Dark Su				Very Shallow Darl	k Surface (TE12)	
	Below Dark Surface (A	.11)	Depleted Dark	Surface (F	7)		Other (Explain in		
	rk Surface (A12)		Redox Depres	sions (F8)				Kernarks)	
Sandy Mu MLRA 14	uck Mineral (S1) (LRR N 7, 148)	١,	Iron-Mangane MLRA 136)	se Masses ((F12) (LRR	N,			
	eyed Matrix (S4)		Umbric Surfac	e (F13) (MI	_RA 136, 12	22)			
Sandy Re			Piedmont Floo	dplain Soils	6 (F19) (MLI	RA 148)	³ Indicators of	hydrophytic vege Irology must be p	tation and
Stripped	Matrix (S6)		Red Parent Ma	aterial (F21)) (MLRA 12	7, 147)	unless di	sturbed or proble	matic.
De stuistius I	ever (if channed).								
Type:	ayer (if observed):								
Depth (inc							Hydric Soil Present?	Yes 🔍 N	lo O
Remarks:									
Remains.									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County: Carroll	Sampli	ng Date: 27-Apr-17
Applicant/Owner: AEP	State: OH	Sampling Poin	nt: w-bcr-042717-04
Investigator(s): BCR/MDT	Section, Township, Range: S	10 T _15N	R _6W
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave, convex, n	one): concave	Slope: /°
Subregion (LRR or MLRA): LRR N Lat.:	40.607868 Lor	g.: -81.117096	Datum: NAD83
Soil Map Unit Name: WmC		NWI classification:	PFO1C
Are climatic/hydrologic conditions on the site typical for this time of y	ear? Yes $ullet$ No $igodow$ (If no,	explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significant	tly disturbed? Are "Normal	Circumstances" present?	Yes 🔍 No 🔾
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, o	explain any answers in Re	emarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● No ○ Yes ● No ○ Yes ● No ○	Is the Sampled Area Yes \bigcirc No \bigcirc within a Wetland?	
Remarks:			
PEM wetland surrounding intermiti	tent stream in a valley.		

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one required	d; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)	Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes $ullet$ No $igcar{}$	Depth (inches): 1	
Water Table Present? Yes $lacksquare$ No $lacksquare$		Hydrology Present? Yes 💿 No 🔿
Saturation Present? (includes capillary fringe) Yes Ves No	Depth (inches):0	Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
	itoring well, aerial photos, previous inspections), if	available:
Remarks:		

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant —Species?		Sampling Point: <u>w-bcr-042717-04</u>		
	Absolute % Cover	Rel.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)			Status	Number of Dominant Species		
1	0	0.0%		That are OBL, FACW, or FAC: (A)		
2	-	0.0%		Total Number of Dominant		
3		0.0%		Species Across All Strata: (B)		
4 5		0.0%		Percent of dominant Species		
6.		0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
7		0.0%		Prevalence Index worksheet:		
8.	0	0.0%		Total % Cover of: Multiply by:		
	0 :	= Total Cov	er	OBL species 55 x 1 = 55		
_Sapling-Sapling/Shrub Stratum (Plot size:)		□		FACW species 170 x 2 = 340		
1	_	0.0%		FAC species $0 \times 3 = 0$		
2		0.0%		FACU speci es $5 x 4 = 20$		
3		0.0%		UPL species $5 - x 5 = 25$		
4	-	0.0%		Column Totals: _235 (A) _440 (B)		
5		0.0%				
67		0.0%		Prevalence Index = B/A =1.872		
7		0.0%		Hydrophytic Vegetation Indicators:		
9		0.0%		✓ Rapid Test for Hydrophytic Vegetation		
10		0.0%		✓ Dominance Test is > 50%		
		= Total Cov	er	✓ Prevalence Index is ≤3.0 ¹		
<u>Shrub Stratum</u> (Plot size:) 1	0	0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
2	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must		
4		0.0%		be present, unless disturbed or problematic.		
5	0	0.0%		Definition of Vegetation Strata:		
6	0	0.0%		Four Vegetation Strata:		
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),		
Herb Stratum (Plot size:)	:	= Total Cov	er	regardless of height.		
1. Impatiens capensis	60	25.5%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
2. <u>Carex crinita</u>	30	12.8%	OBL	Herb stratum - Consists of all herbaceous (non-woody) plants,		
3. Juncus effusus	20	8.5%	FACW	regardless of size, and all other plants less than 3.28 ft tall.		
4. Poa palustris	30	12.8%		Woody vines – Consists of all woody vines greater than 3.28 ft in height.		
5. Scirpus cyperinus		4.3%	FACW			
6. Onoclea sensibilis		12.8%		Five Vegetation Strata:		
7. Persicaria sagittata	5	<u>6.4%</u> 2.1%	OBL UPL	Tree - Woody plants, excluding woody vines, approximately 20		
8. Brassica rapa	5	2.1%	FACU	ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).		
9. Podophyllum peltatum	20	8.5%	FACU	Sapling stratum - Consists of woody plants, excluding woody		
10. <u>Solidago gigantea</u> 11. Acorus calamus	10	4.3%	OBL	vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.		
11. <u>Acorus calamus</u> 12	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody		
		= Total Cov	er	vines, approximately 3 to 20 ft (1 to 6 m) in height.		
Woody Vine Stratum (Plot size:)	0	0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody		
1	0	0.0%		species, except woody vines, less than approximately 3 ft (1 m) in height.		
2		0.0%		Woody vines – Consists of all woody vines, regardless of		
3	0	0.0%		height.		
	0	0.0%				
5	0	0.0%		Hydrophytic Vegetation		
0		= Total Cov	ver	Present? Yes No		
Remarks: (Include photo numbers here or on a separate shee				1		

a sep

Profile Descri		o the depth	needed to document	t the indic	ator or co	nfirm the a	bsence of indicators.)	
Depth	Matrix	0/		dox Featu		12	-		- 1-
(inches) 0-12	2.5Y 6/1	% 70	Color (moist) 2.5YR 3/6	30	1 C1	Loc ² M&PL	Texture Clay Loam	Conc. In p	arks ore linings as
0-12	2.31 0/1		2.51K 5/0			IVIQPL		well	
¹ Type: C=Conc	centration. D=Depleti	on. RM=Redu	iced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M	=Matrix	
Hydric Soil I	ndicators:						Indicators for Pro	oblematic Hydric	Soils ³ :
Histosol (A			Dark Surface (. ,			2 cm Muck (A	.10) (MLRA 147)	
	oedon (A2)		Polyvalue Belo				Coast Prairie F		
Black Histi			Thin Dark Surf			48)	(MLRA 147,14		
	Sulfide (A4)		Loamy Gleyed)		Piedmont Floo	odplain Soils (F19)	
	Layers (A5)		Depleted Matri				(MLRA 136, 1		
	< (A10) (LRR N)		Redox Dark Su				Very Shallow	Dark Surface (TF12	2)
	Below Dark Surface (A	A11)	Depleted Dark		7)		Other (Explain	n in Remarks)	
	k Surface (A12)		Redox Depress		(540) (100				
Sandy Mue MLRA 147	ck Mineral (S1) (LRR 7, 148)	Ν,	Iron-Manganes MLRA 136)						
Sandy Gle	yed Matrix (S4)		Umbric Surfac	e (F13) (MI	RA 136, 12	2)	3		
Sandy Rec	dox (S5)		Piedmont Floo	dplain Soils	(F19) (MLI	RA 148)	- Indicators wetland	s of hydrophytic ve hydrology must be	getation and e present,
Stripped N	Aatrix (S6)		Red Parent Ma	aterial (F21)) (MLRA 12	7, 147)		s disturbed or prob	
Restrictive La	ayer (if observed):								
Type:									
	nes):						Hydric Soil Present	t?Yes 🖲	No 🔿
Remarks:									
Kemarks.									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

City/County: Carroll	Sampling Date: 22-Jun-16
State: OH	Sampling Point: w-bcr-042717-01
Section, Township, Range: S	16 T <u>15N</u> R <u>6W</u>
Local relief (concave, convex, none	concave Slope: 0.0% / 0.0 °
40.617350 Long. :	-81.131966 Datum: NAD83
	NWI classification: NA
ly disturbed? Are "Normal Cir	olain in Remarks.) cumstances" present? Yes 💿 No 🔿 ain any answers in Remarks.)
	State: OH Section, Township, Range: S Local relief (concave, convex, none 40.617350 Long.: ear? Yes No (If no, exp ly disturbed? Are "Normal Circ

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

Hydrophytic Vegetation Present?	Yes \bullet No \bigcirc	
Hydric Soil Present?	Yes \bullet No \bigcirc	Is the Sampled Area Yes No
Wetland Hydrology Present?	Yes 🔍 No 🔾	within a Wetland?
Remarks:		
PEM at pipe outlet adjacent to agr	icultural field.	

	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minim	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeri	al Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:				
Surface Water Present?	$Yes \bigcirc$	No 🖲	Depth (inches):	
Water Table Present?	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	Hydrology Present? Yes \odot No \bigcirc
Saturation Present? (includes capillary fringe)	Yes 🖲	$_{\rm No}$ \bigcirc	Wetland Depth (inches): 0	Hydrology Present? Yes • No 🔾
		no monito	ring well, aerial photos, previous inspections), if	available
Describe Recorded Data (st	tream gaug	је, тионис	ing weil, denai photos, previous inspections), in	
Describe Recorded Data (st	tream gauç	je, monito	ring weil, dendi protos, previous inspections), in	
Describe Recorded Data (si Remarks:	tream gauç	je, monito		
	tream gauç	je, monito		
	tream gau	je, monito		
	tream gau	ge, monito		
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VEGETATION (Five/Four Strata)- Use scientific names of plants.

Absolute % Cover Rel.Stratum Dominance Test worksheet: 1. 0 0.0% Status Number of Dominant Species 2. 0 0.0% Total Number of Dominant Species Total Number of Dominant Species 3. 0 0.0% Total Number of Dominant Species Total Number of Dominant Species 5. 0 0.0% Percent of dominant Species 1 (B) 7. 0 0.0% Percent of dominant Species 1 (B) 7. 0 0.0% Percent of dominant Species 100.0% (A/B) 7. 0 0.0% Percent of dominant Species 100.0% (A/B) 7. 0 0.0% Percent of dominant Species 100.0% (A/B) 7. 0 0.0% Percent of dominant Species 100.0% (A/B) 8. 0 0.0% Pervalence Index worksheet: 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 1
1. 0 0.0% Number of Dominant Species 2. 0 0.0% That are OBL, FACW, or FAC: 1 (A) 3. 0 0.0% Species Arcross All Strata: 1 (B) 4. 0 0.0% Percent of dominant Species 1 (B) 5. 0 0.0% Percent of dominant Species 1 (B) 7. 0 0.0% Prevalence Index worksheet: 1 (B) 8. 0 0.0% FACW species 100 x 1 = 10 1. 0 0.0% FACW species 100 x 2 = 200 7. 0 0.0% FACW species 100 x 2 = 200 7. 0 0.0% FACW species 0 x 4 = 0 1. 0 0.0% FACU species 0 x 4 = 0 2. 0 0.0% FACU species 0 x 4 = 0 3. 0 0.0% FACU species 0 x 4 = 0 4. 0
1. 0 0.0% 3. 0 0.0% 4. 0 0.0% 5. 0 0.0% 6. 0 0.0% 7. 0 0.0% 8. 0 0.0% 9. 0 0.0% 1. 0 0.0% 2. 0 0.0% 1. 0 0.0% 1. 0 0.0% 2. 0 0.0% 4. 0 0.0% 6. 0 0.0% 7. 0 0.0% 8. 0 0.0% 1. 0 0.0% 2. 0 0.0% 5. 0 0.0% 6. 0 0.0% 6. 0 0.0% 7. 0 0.0% 8. 0 0.0% 9. 0 0.0% 9. 0 0.0% 9. 0 0.0% 9. <td< th=""></td<>
2.00.0%Total Number of Dominant Species Across All Strata:1(B)3.00.0%Percent of Dominant Species Across All Strata:1(B)5.00.0%Percent of dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)7.00.0%Prevalence Index worksheet: Total % Cover of:Multiply by:08.00.0%Prevalence Index worksheet: Total % Cover of:Multiply by:01.00.0%FACW species10x 1 =1.00.0%FACW species023.00.0%FACW species0x 4 =4.00.0%UPL species0x 5 =05.00.0%Col umn Total s:110(A)210(B)6.00.0%Prevalence Index = B/A =1.909Prevalence Index sis 3.0 1Morphological Adaptations 1(Provide supporting data in Remarks or on a separate sheet)1.00.0%0.0%Prevalence Index is 3.0 1Morphological Adaptations 1(Provide supporting data in Remarks or on a separate sheet)2.00.0%Problematic Hydrophytic Vegetation 1(Explain)
4. 0 0.0% Percent of dominant Species 5. 0 0.0% That Are OBL, FACW, or FAC: 100.0% (A/B) 6. 0 0.0% Prevalence Index worksheet: Total % Cover of: Multiply by: 8. 0 0.0% FACW species 100.1% X 1 = 100.1% 1. 0 0.0% FACW species 100.1% X 1 = 100.1% 2. 0 0.0% FAC species 0 X 1 = 100.1% 3. 0 0.0% FAC species 0 X 4 = 0 4. 0 0.0% FACU species 0 X 4 = 0 5. 0 0.0% FACU species 0 X 5 = 0 6. 0 0.0% FACU species X 4 = 0 <
5. 0 0.0% Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. 0 0.0% Prevalence Index worksheet: Total % Cover of: Multiply by: 8. 0 0.0% Percent of dominant Species Total % Cover of: Multiply by: 9. 0 0.0% Prevalence Index worksheet: Total % Cover of: Multiply by: 9. 0 0.0% FAC speciles 10 x 1 = 10 1. 0 0.0% FAC speciles 0 x 3 = 0 2. 0 0.0% FACU speciles 0 x 4 = 0 3. 0 0.0% FACU speciles 0 x 4 = 0 4. 0 0.0% Column Totals: 110 (A) 210 (B) 5. 0 0.0% Prevalence Index = B/A = 1.909 Prevalence Index = B/A = 1.909 7. 0 0.0% Ø Prevalence Index is \$3.0 ¹ Ø 9. 0 0.0% Ø Prevalence Index is \$3.0 ¹ Ø
3. 0 0.0% That Are OBL, FACW, or FAC: 100.0% (A/B) 6. 0 0.0% Prevalence Index worksheet: Total % Cover of: Multiply by: 8. 0 0.0% FAC species 10 x 1 = 10 1. 0 0.0% FAC species 100.0 x 2 = 200 1. 0 0.0% FAC species 0 x 3 = 0 2. 0 0.0% FAC species 0 x 4 = 0 3. 0 0.0% Column Totals: 110 (A) 210 (B) 4. 0 0.0% Column Totals: 110 (A) 210 (B) 5. 0 0.0% Column Totals: 110 (A) 210 (B) 6. 0 0.0% Prevalence Index = B/A = 1.909 Prevalence Index is \$3.0^1 Prevalence In
0 0.0% Prevalence Index worksheet: 8. 0 0.0% Total % Cover of: Multiply by: Sapling-Sapling/Shrub Stratum (Plot size:) 0 = Total Cover 1. 0 0.0% FAC speci es 10 x 1 = 10 2. 0 0.0% FAC speci es 0 x 3 = 0 3. 0 0.0% FAC speci es 0 x 4 = 0 4. 0 0.0% FAC speci es 0 x 4 = 0 5. 0 0.0% Column Total s: 110 (A) 210 (B) 6. 0 0.0% Prevalence Index = B/A = 1.909 (B) 7. 0 0.0% Prevalence Index = B/A = 1.909 (B) 7. 0 0.0% Prevalence Index = S/A = 1.909 (B) 7. 0 0.0% Prevalence Index = S/A = 1.909 (B) 9. 0 0.0% Prevalence Index is ≤3.0 ¹ (B) 10. 0 0.0% Prevalence Index is ≤3.0 ¹ (P) 11. 0 0.0% Prevalence Index is ≤3.0 ¹ (P)
1.00.0%Total % Cover of:Multiply by:Sapling-Sapling/Shrub Stratum(Plot size:)0= Total Cover1.00.0%FACW speciles100 $x 2 = 200$ 2.00.0%FAC speciles0 $x 3 = 0$ 3.00.0%FACU speciles0 $x 4 = 0$ 4.00.0%UPL speciles0 $x 5 = 0$ 5.00.0%CoverCoverCover6.00.0%UPL speciles0 $x 5 = 0$ 7.00.0%CoverCoverCover8.00.0%UPL speciles110(A)9.00.0%UPL specilesUPL specilesUPL speciles9.00.0%UPL speciles01.90910.00.0%W revalence Index = B/A = 1.9091.90911.00.0%W revalence Index is <3.01W revalence Index is <3.0111.00.0%W revalence Index is <3.01Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)11.00.0%W revalence Hydrophytic Vegetation 1 (Explain)
O.OTotal CoverSapling/Shrub Stratum(Plot size:)0= Total Cover1.00.0%FACW speciles100x 2 =2.00.0%FAC speciles0x 3 =3.00.0%FAC speciles0x 4 =3.00.0%UPL speciles0x 5 =4.00.0%Column Total s:110(A)2105.00.0%Column Total s:110(A)2106.00.0%Hydrophytic Vegetation Indicators:8.00.0%WRapid Test for Hydrophytic Vegetation9.00.0%WPrevalence Index = S/A =1.90910.00.0%WPrevalence Index is $\leq 3.0^{-1}$ 11.00.0%WPrevalence Index is $\leq 3.0^{-1}$ 11.00.0%WPrevalence Index is $\leq 3.0^{-1}$ 2.00.0%WProblematic Hydrophytic Vegetation 1 (Explain)
Sapling/Shrub Stratum(Plot size:)1.00.0%2.00.0%3.00.0%4.00.0%5.00.0%6.00.0%7.00.0%8.00.0%9.00.0%10.00.0%11.00.0%2.00.0%1.00.0%2.00.0%1.00.0%2.00.0%1.00.0%2.00.0%
1.00.0%PAW species100 $X 2 = 200$ 2.00.0%FAC species0 $x 3 = 0$ 3.00.0%FAC species0 $x 4 = 0$ 4.000.0%UPL species0 $x 5 = 0$ 5.00.0%Column Total s:110(A)2106.00.0%Prevalence Index = B/A =1.9097.00.0%00.0%9.00.0%W Rapid Test for Hydrophytic Vegetation9.00.0%W Prevalence Index is > 50%10.00.0%W Prevalence Index is < 3.0 11.00.0%W Prevalence Index is < 3.0 12.00.0%W Prevalence Index is < 3.0 11.00.0%W Prevalence Index is < 3.0 12.00.0%W Prevalence Index is < 3.0 11.00.0%W Prevalence Index is < 1 (Provide supporting data in Remarks or on a separate sheet)00.0%W Problematic Hydrophytic Vegetation 1 (Explain)
2.00.0%FACU speciles0x 4 =03.00.0%00.0%UPL speciles0x 5 =04.00.0%00.0%Column Totals:110(A)210(B)5.00.0%00.0%Prevalence Index = B/A =1.9097.00.0%00.0%Hydrophytic Vegetation Indicators:8.00.0% \checkmark Rapid Test for Hydrophytic Vegetation9.00.0% \checkmark Prevalence Index is $\leq 3.0^{1}$ 10.00.0% \checkmark Prevalence Index is $\leq 3.0^{1}$ 1.00.0% \bigcirc Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)2.00.0% \bigcirc Problematic Hydrophytic Vegetation 1 (Explain)
3.00.0%10.0%4.00.0%0.0%5.00.0%6.00.0%7.00.0%8.00.0%9.00.0%10.00.0%Shrub Stratum (Plot size:)00.0%1.00.0%2.00.0%
4.00.0%UPL speciles0x 5 =05.00.0%0.0%Col umn Total s:110(A)210(B)6.00.0%0.0%Prevalence Index = $B/A =$ 1.9097.00.0%0.0%Hydrophytic Vegetation Indicators:8.00.0% V Rapid Test for Hydrophytic Vegetation9.00.0% V Prevalence Index is $\leq 3.0^{1}$ 10.00.0% V Prevalence Index is $\leq 3.0^{1}$ 1.00.0% V Prevalence Index is $\leq 3.0^{1}$ 1.00.0% V Prevalence Index is $\leq 3.0^{1}$ 2.00.0% V Problematic Hydrophytic Vegetation 1 (Explain)
5. 0 0.0% Prevalence Index = $B/A = 1.909$ 6. 0 0.0% Prevalence Index = $B/A = 1.909$ 7. 0 0.0% Hydrophytic Vegetation Indicators: 8. 0 0.0% Image: Constraint of the
0. 0.0% 7. 0 0.0% 8. 0 0.0% 9. 0 0.0% 10. 0 0.0% Shrub Stratum (Plot size:) 0 0.0% 1. 0 0.0% Image: Constraint of the size of the si
7.00.0%8.00.0%9.00.0%10.00.0%Shrub Stratum (Plot size:)01.00.0%2.00.0%00.0%1.00.0%1.00.0%1.00.0%1.00.0%1.00.0%1.00.0%1.00.0%1.00.0%1.00.0%1.00.0%2.00.0%
8. 0 0.0% Implies the top of the
9. 0 0.0% 10. 0 0.0% Shrub Stratum (Plot size:) 0 = Total Cover 1. 0 0.0% 2. 0 0.0%
10. 0 0.0% Shrub Stratum (Plot size:) 0 = Total Cover 0. 0.0% Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) 2. 0 0.0%
Shrub Stratum (Plot size:) 0 = Total Cover Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) 1. 0 0.0% Problematic Hydrophytic Vegetation 1 (Explain)
1. 0 0.0% data in Remarks or on a separate sheet) 2. 0 0.0% Problematic Hydrophytic Vegetation 1 (Explain)
2 00.0% Problematic Hydrophytic Vegetation ¹ (Explain)
3. $0 \square 0.0\%$ 1 Indicators of hydric soil and wetland hydrology must
3. 0 0.0% 1 Indicators of hydric soil and wetland hydrology must 4. 0 0.0% be present, unless disturbed or problematic.
5. 0 0.0% Definition of Vegetation Strata:
6 0 0.0% Four Vegetation Strata:
-7 Tree stratum – Consists of woody plants, excluding vines, 3 in.
Herb Stratum (Plot size:) 0 = Total Cover (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub stratum – Consists of woody plants, excluding
Z. The angent and all other plants loss than 3.28 ft tall
0. Woody vines - Consists of all woody vines graater than 3.28 ft
in height.
6. 0 0.0% Five Vegetation Strata: 7. 0 0.0% Tree - Woody plants excluding woody vines approximately 20
8 Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
O
Sapling stratum – Consists of woody plants, excluding woody
10. 0 0.0% vines, approximately 20 ft (6 m) or more in height and less 11. 0 0.0% than 3 in. (7.6 cm) DBH.
12 0 0% Shrub stratum – Consists of woody plants, excluding woody
110 = Total Cover
Woody Vine Stratum (Plot size:) Image: Construction of the stratum - Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody 1 0 0.0% 0.0%
1 species, except woody vines, less than approximately 3 ft (1
2 0 0.0% m) in height.
3 0 0.0% Woody vines – Consists of all woody vines, regardless of height.
5 0 \Box 0.0% Hydrophytic
6 0 \square 0.0% Vegetation Present? Yes \bullet No \bigcirc
0 = Total Cover Fresent: 100 100 Remarks: (Include photo numbers here or on a separate sheet.)

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

Profile Desci	ription: (De	escribe to	the depth	needed to docume	ent the indi	cator or co	nfirm the a	absence of indicators.)	
Depth		Matrix			Redox Feat				
(inches)		(moist)		<u>Color (moist)</u>		Tvpe ¹		Texture	Remarks
0-12	10YR	3/2	80	10YR 3/4	25	C	M	Silty Clay Loam	
		-							
				·					
	-								
								,	
¹ Type: C=Con	centration.	D=Depletio	n. RM=Red	uced Matrix, CS=Cov	ered or Coat	ed Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=Ma	atrix
Hydric Soil								~	
Histosol (Dark Surfac	e (S7)			Indicators for Proble	-
	pedon (A2)				elow Surface	(S8) (MI RA	147,148)	2 cm Muck (A10)	(MLRA 147)
Black Hist					urface (S9) (I			Coast Prairie Redo	ox (A16)
	n Sulfide (A4	.)			ed Matrix (F2			(MLRA 147,148)	
	Layers (A5)			Depleted Ma		.)		Piedmont Floodpla (MLRA 136, 147)	ain Soils (F19)
	:k (A10) (LR			Redox Dark				Very Shallow Dark	· ·····
	Below Dark		11)		irk Surface (F			,	
· · ·	'k Surface (A			Redox Depr		.,		Other (Explain in	Remarks)
					nese Masses	(F12) (I RR	N.		
MLRA 14	uck Mineral 7, 148)	(ST) (LRR N	4,	MLRA 136)					
Sandy Gle	eyed Matrix	(S4)		Umbric Surf	ace (F13) (M	LRA 136, 12	22)	3	
Sandy Re	dox (S5)			Piedmont FI	oodplain Soil	s (F19) (ML	RA 148)	Vetland hyd	hydrophytic vegetation and Irology must be present,
Stripped	Matrix (S6)			Red Parent	Material (F21) (MLRA 12	7, 147)	unless dis	sturbed or problematic.
Restrictive L	aver (if oh	corved).							
Type:	ayer (ii ob	seiveu):							
	:hes):							Hydric Soil Present?	Yes 🔍 No 🔾
	.nes).							_	
Remarks:									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County: Carroll	Sampling Date: 27-Apr-17
Applicant/Owner: AEP	State: OH	Sampling Point: w-bcr-042717-02
Investigator(s): BCR/MDT	Section, Township, Range: S	6 T <u>15N</u> R <u>6W</u>
Landform (hillslope, terrace, etc.): Swale	Local relief (concave, convex, none	Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.619331 Long.:	-81.134407 Datum: NAD83
Soil Map Unit Name: WmC		NWI classification: NA
	ly disturbed? Are "Normal Cire	lain in Remarks.) cumstances" present? Yes

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔿
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	
Remarks:				
PEM at lawn drainage.				

Wetland Hydrology Indicat	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
✓ Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9))			Microtopographic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-neutral Test (D5)
Field Observations:				
Surface Water Present?	$Yes \bigcirc$	No 🖲	Depth (inches):	
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches): 8	
Saturation Present?	\frown	\sim	Wetland H	lydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
	Yes 🖲	No \bigcirc	Depth (inches): 0	
(includes capillary fringe)			Depth (inches):0 ring well, aerial photos, previous inspections), if a	available:
(includes capillary fringe)				ivailable:
(includes capillary fringe)				available:
(includes capillary fringe) Describe Recorded Data (st				available:
(includes capillary fringe) Describe Recorded Data (st				available:
(includes capillary fringe) Describe Recorded Data (st				available:
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(includes capillary fringe) Describe Recorded Data (st				available:
(includes capillary fringe) Describe Recorded Data (st				available:

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			minant ecies? -		Sampling Point: <u>w-bcr-042717-02</u>
	Absolute % Cover	Rel	.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)			,	Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC: (A)
2			0.0%		Total Number of Dominant
3			0.0%		Species Across All Strata: (B)
4	_		0.0%		Percent of dominant Species
5			0.0%		That Are OBL, FACW, or FAC: 100.0% (A/B)
6			0.0%		
7	0		0.0%		Prevalence Index worksheet:
8			0.0%		Total % Cover of: Multiply by:
_Sapling-Sapling/Shrub Stratum (Plot size:)		= 10	tal Cover		OBL species 30 x 1 = 30
1			0.0%		FACW species <u>115</u> x 2 = <u>230</u>
2	_		0.0%		FAC species $0 \times 3 = 0$
3	0		0.0%		FACU species $0 \times 4 = 0$
4.			0.0%		UPL species $0 \times 5 = 0$
5.	0		0.0%		Column Totals: <u>145</u> (A) <u>260</u> (B)
6	0		0.0%		Prevalence Index = $B/A = 1.793$
7			0.0%		
8			0.0%		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
9			0.0%		
10			0.0%		
		= Toi	tal Cover		
<u>Shrub Stratum</u> (Plot size:) 1	0		0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2			0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3			0.0%		¹ Indicators of hydric soil and wetland hydrology must
4			0.0%		be present, unless disturbed or problematic.
5	0		0.0%		Definition of Vegetation Strata:
6			0.0%		Four Vegetation Strata:
7	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)		= Tot	tal Cover		regardless of height.
1. Poa palustris	40	\checkmark	27.6%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Impatiens capensis	70		48.3%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Juncus effusus	5		3.4%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4 Scirpus atrovirens	10		6.9%	OBL	Woody vines – Consists of all woody vines greater than 3.28 ft
5. Persicarla sagittata	20		13.8%	OBL	in height.
6.	0		0.0%		Five Vegetation Strata:
7	0		0.0%		
8	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0		0.0%		diameter at breast height (DBH).
10	0		0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
11	0		0.0%		than 3 in. (7.6 cm) DBH.
12.	0		0.0%		Shrub stratum – Consists of woody plants, excluding woody
Woody Vine Stratum (Plot size:)	145 =	= Tot	tal Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants,
1,	0	\square	0.0%		including herbaceous vines, regardless of size, and woody
••	0		0.0%		species, except woody vines, less than approximately 3 ft (1 m) in height.
2			0.0%		Woody vines – Consists of all woody vines, regardless of
4.			0.0%		height.
	0		0.0%		
5	0		0.0%		Hydrophytic Vegetation
6			tal Cove		Present? Yes No
Remarks: (Include photo numbers here or on a separate shee		- 10			

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

Wet	land	07

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	
Depth Matrix Redox Features	
6-12 5Y 4/1 100 Silty Clay Loam	
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA 147)	
✓ Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147,148)	
Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19)	
Stratified Layers (A5) Depleted Matrix (F3) (MLRA 136, 147)	
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12)	
Depleted Below Dark Surface (A11)	
Thick Dark Surface (A12)	
Sandy Muck Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) MLRA 136)	
Sandy Gleved Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)	
³ Indicators of hydrophytic vegetation and	I
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	
Type:	
Depth (inches):	
Remarks:	

I

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County:	Carroll		Sampli	ng Date: 27-Apr-17
Applicant/Owner: AEP		State:	ОН	Sampling Poir	nt: w-bcr-042717-03
Investigator(s): BCR/MDT	Section, Tow	nship, Range	S 1	7 T 15N	R 6W
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (co	ncave, conve	x, none)	concave	Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.619856		Long.:	-81.135504	Datum: NAD83
Soil Map Unit Name: WmC				NWI classification:	NA
	y disturbed? roblematic?	Are "Nori (If neede	mal Circu ed, expla	ain in Remarks.) umstances" present? in any answers in Re ransects, impo	emarks.)
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNo		Sampled Are	a _{Yes}	• No ()	

Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?
Remarks:			
DEM watland within transmission lin		d adiagant to residential lown	Stream coming out of watland

PEM wetland within transmission line ROW and adjacent to residential lawn. Stream coming out of wetland.

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required;	check all that apply)	_ Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
 High Water Table (A2) 			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery ((B7)		Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9))			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:				
Surface Water Present?	$_{\rm Yes}$ \bigcirc	No 💿	Depth (inches):	
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches):1	Hydrology Present? Yes 🖲 No 🖯
Saturation Present? (includes capillary fringe)	Yes 🖲	No \bigcirc	Depth (inches): 0	Hydrology Present? Yes • No 🔾
Describe Recorded Data (st	ream gau	ge, monito	ring well, aerial photos, previous inspections), if	available:
Remarks:				

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant — Species?			Sampling Point: <u>w-bcr-042717-03</u>		
Tree Stratum (Plot size:)	Absolute % Cover	Re	I.Strat. ver	Indicator Status	Dominance Test worksheet:		
	0			Status	Number of Dominant Species		
1			0.0%		That are OBL, FACW, or FAC: (A)		
2			0.0%		Total Number of Dominant		
3			0.0%		Species Across All Strata: (B)		
4			0.0%		Percent of dominant Species		
5			0.0%		That Are OBL, FACW, or FAC:(A/B)		
6 7			0.0%		Prevalence Index worksheet:		
8	0		0.0%		Total % Cover of:Multiply by:		
	0 :	 = To	tal Cover		OBL species 75 x 1 = 75		
Sapling-Sapling/Shrub Stratum (Plot size:)		_			FACW species 155 x 2 = 310		
1	0		0.0%		FAC species $5 \times 3 = 15$		
2	0		0.0%		FACU species $0 \times 4 = 0$		
3	0		0.0%				
4	0		0.0%				
5			0.0%		Column Totals: (A) (B)		
6			0.0%		Prevalence Index = $B/A = 1.702$		
7			0.0%		Hydrophytic Vegetation Indicators:		
8			0.0%		Rapid Test for Hydrophytic Vegetation		
9			0.0%		✓ Dominance Test is > 50%		
10			0.0%		✓ Prevalence Index is ≤3.0 1		
Shrub Stratum (Plot size:)	:		tal Cover		Morphological Adaptations ¹ (Provide supporting		
1. Viburnum dentatum	5		100.0%	FAC	data in Remarks or on a separate sheet)		
2	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must		
4	0		0.0%		be present, unless disturbed or problematic.		
5	0		0.0%		Definition of Vegetation Strata:		
6	0		0.0%		Four Vegetation Strata:		
7	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),		
Herb Stratum (Plot size:)	5:	= То	tal Cover		regardless of height.		
1. Typha angustifolia	30		13.0%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
2. Impatiens capensis	80		34.8%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,		
3. Persicaria sagittata	30		13.0%	OBL	regardless of size, and all other plants less than 3.28 ft tall.		
4. Onoclea sensibilis	75	✓	32.6%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft in height.		
5. Carex vulpinoidea	15		6.5%	OBL	in togethe		
6	0		0.0%		Five Vegetation Strata:		
7	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20		
8	0		0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in		
9	0		0.0%		diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody		
10			0.0%		vines, approximately 20 ft (6 m) or more in height and less		
11	0	Ц.	0.0%		than 3 in. (7.6 cm) DBH.		
12	0		0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.		
(Plot size:)	230:	= То	tal Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,		
1	0		0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1		
2	0		0.0%		m) in height.		
3			0.0%		Woody vines – Consists of all woody vines, regardless of		
4	0		0.0%		height.		
5	0		0.0%		Hydrophytic		
6	0		0.0%		Vegetation		
	0	= Тс	tal Cove	r	Present? Yes Vo V		
Remarks: (Include photo numbers here or on a separate shee	+)						

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

Depth (inches) Matrix Redox Features 0-12 10YR % Color (moist) % Type 1 Loc2 Texture Remarks 0-12 10YR 5/1 75 10YR 4/6 25 C M Silty Clay Loam	
0-12 IUYR 5/1 75 IUYR 4/6 25 C M Sitty Clay Loam	
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA 147)	
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147,148) Coast Prairie Redox (A16)	
Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148)	
Hydrogen Sulfide (A4)	
□ Stratified Layers (A5)	
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12)	
Depleted Below Dark Surface (A11)	
Thick Dark Surface (A12)	
Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 136)	
Sandy Gleyed Matrix (S4)	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 148) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present,	i.
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.	
Restrictive Layer (if observed):	
Type:	
Depth (inches): Hydric Soil Present? Yes O No	
Remarks:	
Konurks.	

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County: Carroll	Samplin	g Date: 26-Apr-17
Applicant/Owner: AEP	State: OH	Sampling Poin	t: w-bcr-042617-05
Investigator(s): BCR/MDT	Section, Township, Range: S	7 T _15N	R _6W
Landform (hillslope, terrace, etc.): Channel (active)	Local relief (concave, convex, none)	concave	Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.626667 Long.:	-81.146348	Datum: NAD83
Soil Map Unit Name: WmC		NWI classification:	NA
Are climatic/hydrologic conditions on the site typical for this time of ye		lain in Remarks.)	Yes 🔍 No 🔾
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Normal Circ	umstances" present?	Yes 🔍 No 🔾
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, expla	ain any answers in Rer	marks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● No Yes ● No Yes ● No	Is the Sampled Area Yes No Ves No
Remarks:		
PEM surrounding intermittent strea	am within pasture	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	14) Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)	C(C1)
Saturation (A3) Oxidized Rhizospheres	along Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1)	ron (C4) Dry Season Water Table (C2)
Sediment Deposits (B2)	in Tilled Soils (C6) Crayfish Burrows (C8)
Drift deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Rema	arks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	10
Water Table Present? Yes No O Depth (inches):	0
Saturation Present? Yes No Depth (inches):	0 Wetland Hydrology Present? Yes No
Saturation Present? Voc No Dopth (inches):	0 Wetland Hydrology Present? Yes (No ()
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	0 Wetland Hydrology Present? Yes • No
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	0 Wetland Hydrology Present? Yes • No
Saturation Present? Yes No Depth (inches):	0 Wetland Hydrology Present? Yes • No
Saturation Present? Yes No Depth (inches):	0 Wetland Hydrology Present? Yes • No
Saturation Present? (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, particular)	0 Wetland Hydrology Present? Yes • No ·
Saturation Present? (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, particular)	0 Wetland Hydrology Present? Yes • No ·
Saturation Present? (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, particular)	0 Wetland Hydrology Present? Yes • No ·
Saturation Present? (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, particular)	0 Wetland Hydrology Present? Yes • No ·
Saturation Present? (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, particular)	0 Wetland Hydrology Present? Yes • No ·
Saturation Present? (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, particular)	0 Wetland Hydrology Present? Yes • No ·
Saturation Present? (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, particular)	0 Wetland Hydrology Present? Yes • No ·
Saturation Present? (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, particular)	0 Wetland Hydrology Present? Yes • No ·
Saturation Present? (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, particular)	0 Wetland Hydrology Present? Yes (No ()
Saturation Present? (includes capillary fringe) Yes No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, particular)	0 Wetland Hydrology Present? Yes • No ·

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Tree Stratum (Plot size:) Absolute % Cover Indicator Status Dominance Test worksheet: 1. 0 0.0% That are OBL, FACW, or FAC: 2 (A) 2. 0 0.0% Total Number of Dominant Species Arross All Strata: 2 (A) 3. 0 0.0% Total Number of Dominant Species Arross All Strata: 2 (B) 4. 0 0.0% Total Number of Dominant Species Arross All Strata: 2 (B) 7. 0 0.0% Total Number of Dominant Species Arross All Strata: 2 (B) 8. 0 0.0% That Are OBL, FACW, or FAC: 100.0% (A/B) 7. 0 0.0% Total Number of Dominant Species Arross All Strata: 2 (B) 8. 0 0.0% Prevalence Index worksheet: Total % Cover of: 100.0% (A/B) 1. 0 0.0% FAC Species			Dominant Species?			Sampling Point: w-bcr-042617-05		
1.00.0%Number of Dominant Species2.00.0%That are OBL, FACW, or FAC:23.00.0%Total Number of Dominant4.00.0%5.00.0%6.00.0%7.00.0%8.00.0%9.00.0%7.00.0%9.00.0%9.00.0%7.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9.00.0%1.00.0%2.00.0%1.00.0%2.00.0%1.00.0%2.00.0%1.00.0%2.00.0%4.000.0.0%4.000.0.0%6.00.0%6.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9.00.0%9. <th></th> <th></th> <th>Rel.s</th> <th>Strat.</th> <th></th> <th>Dominance Test worksheet:</th>			Rel.s	Strat.		Dominance Test worksheet:		
1.00.0%3.00.0%4.00.0%5.00.0%6.00.0%7.00.0%8.00.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%9.0.0%1.02.03.04.05.06.09.0.0%<		-			Status			
Z.Interpretation <th></th> <td></td> <td></td> <td></td> <td></td> <td>That are OBL, FACW, or FAC: (A)</td>						That are OBL, FACW, or FAC: (A)		
4.00.0%Percent of dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)5.00.0%Prevalence Index worksheet:100.0%(A/B)7.00.0%Total % Cover of:Multiply by:08.00.0%Total % Cover of:Multiply by:09.00.0%FACW speciles70x 1 =709.00.0%FACW speciles0x 3 =01.00.0%FACU speciles0x 4 =02.00.0%FACU speciles0x 4 =03.00.0%Column Total s:135(A)200(B)6.00.0%Prevalence Index = B/A =1.48114817.00.0%Hydrophytic Vegetation Indicators:1.481						Total Number of Dominant		
The sector of	-					Species Across All Strata: <u>2</u> (B)		
S.OOOOO(A/B)6.00.0%00.0%Prevalence Index worksheet:100.0%(A/B)7.00.0%00.0%Prevalence Index worksheet:0008.00.0%00.0%0BL speciles70x 1 =701.00.0%00.0%FAC speciles0x 3 =02.00.0%00.0%FAC speciles0x 4 =03.00.0%00.0%VPL speciles0x 4 =04.00.0%00.0%Column Total s:135(A)200(B)6.00.0%00.0%Prevalence Index = B/A =1.481Hydrophytic Vegetation Indicators:						Percent of dominant Species		
O.OO.0%Prevalence Index worksheet:7.00.0%Total % Cover of:Multiply by:8.00.0%OBL speciles70 $x \ 1 = 70$ Sapling-Sapling/Shrub Stratum00.0%FACW speciles65 $x \ 2 = 130$ 1.00.0%FAC speciles0 $x \ 3 = 0$ 2.00.0%FACU speciles0 $x \ 4 = 0$ 3.00.0%UPL speciles0 $x \ 5 = 0$ 4.00.0%Column Total s:135(A)2005.00.0%0.0%Prevalence Index = B/A = 1.481Hydrophytic Vegetation Indicators:								
8.0 0.0% Total % Cover of:Multiply by:Sapling-Sapling/Shrub Stratum(Plot size:)0 $=$ Total CoverOBL speciles70 $x 1 = 70$ 1.0 0.0% $FACW$ speciles 65 $x 2 = 130$ 2.0 0.0% $FACW$ speciles 0 $x 3 = 0$ 3.0 0.0% $FACU$ speciles 0 $x 4 = 0$ 4.0 0.0% UPL speciles 0 $x 5 = 0$ 5.0 0.0% 0.0% $Column Total s: 135$ (A) 200 6.0 0.0% 0.0% $Prevalence Index = B/A = 1.481$ 7.0 0.0% $Hydrophytic Vegetation Indicators:$								
Sapling-Sapling/Shrub Stratum(Plot size:) 0 = Total CoverOBL speciles 70 $x 1 =$ 70 1.00.0%FACW speciles 65 $x 2 =$ 130 2.00.0%FAC speciles 0 $x 3 =$ 0 3.00.0%FACU speciles 0 $x 4 =$ 0 4.00.0%UPL speciles 0 $x 5 =$ 0 5.00.0%00.0%Column Total s: 135 (A) 200 (B)6.00.0%00.0%Prevalence Index = B/A = 1.481 Hydrophytic Vegetation Indicators:								
Sapling-Sapling/Shrub Stratum(Plot size:)1.00.0%2.00.0%3.00.0%4.00.0%5.00.0%6.00.0%7.00.0%Hydrophytic Vegetation Indicators:0	8							
1.00.0%FAC species05 $x 2 = 130$ 2.00.0%FAC species0 $x 3 = 0$ 3.00.0%00.0%FAC species0 $x 4 = 0$ 4.00.0%00.0%00005.000.0%0000006.00.0%00.0%0000007.00.0%00.0%00000000Hydrophytic Vegetation Indicators:00.0%00 </td <th>Sapling-Sapling/Shrub Stratum (Plot size:</th> <td>_) :</td> <td>= 10ta</td> <td>II Cove</td> <td></td> <td></td>	Sapling-Sapling/Shrub Stratum (Plot size:	_) :	= 10ta	II Cove				
0 $0.0%$ $FAC speciles$ 0 $x 3 =$ 0 3 0 $0.0%$ 0 $0.0%$ $FACU speciles$ 0 $x 4 =$ 0 4 0 $0.0%$ 0 $0.0%$ 0 $0 x 5 =$ 0 <th></th> <td></td> <td></td> <td>0.0%</td> <td></td> <td></td>				0.0%				
3.0 0.0% <t< td=""><th>2</th><td>0</td><td></td><td>0.0%</td><td></td><td></td></t<>	2	0		0.0%				
4.00.0%UPL species0 $x 5 = 0$ 5.00.0%00.0%Col umn Total s:135(A)200(B)6.00.0%00.0%Prevalence Index = B/A =1.481Hydrophytic Vegetation Indicators:				0.0%				
5. 0 0.0% 0.0% 0.0% 0.0% 0.0% 1.481 6. 0 0.0% 0.0% 0.0% 1.481 7. 0 0.0% 0.0% Hydrophytic Vegetation Indicators:				0.0%		UPL species x 5 =		
7.	5	0		0.0%		Column Totals: <u>135</u> (A) <u>200</u> (B)		
7 0 0.0% Hydrophytic Vegetation Indicators:	6	0		0.0%		Prevalence Index = $B/A = 1.481$		
				0.0%				
8 0 U 0.0% Rapid Test for Hydrophytic Vegetation		_		0.0%				
0 0.0%	9.	0		0.0%				
				0.0%				
			= Tota	al Cove				
Shrub Stratum (Plot size:) Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) 1 0 0.0% data in Remarks or on a separate sheet)		0		0.0%				
2 0 □ 0.0% □ Problematic Hydrophytic Vegetation ¹ (Explain)				0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
3 0 0.0% 1 Indicators of hydric soil and wetland hydrology must				0.0%		¹ Indicators of hydric soil and wetland hydrology must		
4				0.0%		be present, unless disturbed or problematic.		
5. 0 0.0% Definition of Vegetation Strata:				0.0%		Definition of Vegetation Strata:		
6 0 □ 0.0% Four Vegetation Strata:				0.0%		Four Vegetation Strata:		
7 0 0.0% Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH).				0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.		
Herb Stratum (Plot size:) 0 = Total Cover regardless of height.	Herb Stratum (Plot size:)	0 :	= Tota	al Cove				
1. Carex vulpinoidea 25 18.5% OBL Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		25	<u> </u>	18.5%	OBL			
						Herb stratum – Consists of all herbaceous (non-woody) plants,		
3. Juncus effusus 20 14.8% FACW regardless of size, and all other plants less than 3.28 ft tall.								
A Acorus calamus 45 🗹 33.3% OBL Woody vines – Consists of all woody vines greater than 3.28 ft		45		33.3%	OBL			
5. Mentha spicata 10 7.4% FACW in height.		10		7.4%	FACW	in height.		
	•	0		0.0%		Fire Manadation Churches		
				0.0%		_		
8 0 0.0% Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in	_			0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in		
9 O O.0% diameter at breast height (DBH).		0	\square	0.0%				
0 0.0% Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less				0.0%				
0 0.0% 11. 0 0 0.0%				0.0%				
10 $0.0%$ Shrub stratum – Consists of woody plants, excluding woody	12	0		0.0%				
vines, approximately 5 to 20 ft (1 to 6 m) in neight.			= Tota	al Cove				
including herbaceous vines, regardless of size, and woody		0		0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody		
I · species, except woody vines, less than approximately 3 ft (1	••							
$3. _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _$								
5 0 \Box 0.0% Hydrophytic								
6 0 \Box 0.0% Vegetation Present? Yes \bullet No \bigcirc	б							
<u></u> = Total Cover		0	- 1002	ы соvе				

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

Depth	Matrix			dox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks
0-12	10YR 4/1	70	5YR 5/6	30	С	Μ	Clay Loam	
	u							ч ç.
								- y-
								-
	-			-	-			
								1
vpe: C=Conc	centration. D=Depletion	n. RM=Redu	ced Matrix. CS=Cover	ed or Coate	d Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=N	latrix
ydric Soil I							-	
Histosol (A			Dark Surface ((\$7)			_	ematic Hydric Soils ³ :
Histic Epip	,		Polyvalue Belo	• •	S8) (MI RA	147,148)	2 cm Muck (A10)	(MLRA 147)
Black Histi			Thin Dark Surf				Coast Prairie Rec	ox (A16)
_	Sulfide (A4)		Loamy Gleyed			,	(MLRA 147,148)	
-	Layers (A5)		Depleted Matri				Piedmont Floodp (MLRA 136, 147)	lain Soils (F19)
-	(A10) (LRR N)		Redox Dark Su				_	k Surface (TF12)
_	Below Dark Surface (A	11)	Depleted Dark		')			
	< Surface (A12)	,	Redox Depress				Other (Explain in	Remarks)
_	ck Mineral (S1) (LRR N		Iron-Mangane		F12) (LRR I	۹,		
MLRA 147	, 148)	,	MLRA 136)					
Sandy Gle	yed Matrix (S4)		Umbric Surfac	e (F13) (ML	RA 136, 12	2)	2	
Sandy Red	dox (S5)		Piedmont Floo	dplain Soils	(F19) (MLF	RA 148)	^o Indicators of wetland hy	hydrophytic vegetation and drology must be present,
Stripped N	Matrix (S6)		Red Parent Ma	aterial (F21)	(MLRA 127	7, 147)		isturbed or problematic.
a atul ati ya I a	(if a harmond).							
	ayer (if observed):							
Type: Depth (inch	200).						Hydric Soil Present?	Yes 💿 No 🔾
	les):						-	
emarks:								

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County: Carroll	Sampling Date: 26-Apr-17
Applicant/Owner: AEP	State: OH	Sampling Point: w-bcr-042617-04
Investigator(s): BCR/MDT	Section, Township, Range: S	23 T <u>15N</u> R <u>6W</u>
Landform (hillslope, terrace, etc.): depression	Local relief (concave, convex, none	concave Slope: 0.0% / 0.0 °
Subregion (LRR or MLRA): LRR N Lat.:	40.629459 Long. :	-81.151489 Datum: NAD83
Soil Map Unit Name: FcB		NWI classification: NA
	tly disturbed? Are "Normal Cir	plain in Remarks.) cumstances" present? Yes • No O ain any answers in Remarks.)
	(If fielded, exp	and any answers in Keniarks.

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

Hydrophytic Vegetation Present?	Yes 💿 No 🔿						
Hydric Soil Present?	Yes No	Is the Sampled Area Yes No					
Wetland Hydrology Present?	Yes 🔍 No 🔾	within a Wetland?					
Remarks:							
PEM wetland at terminus of intern	PEM wetland at terminus of intermittent stream.						

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one requi	red; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No	Depth (inches):	
Water Table Present? Yes No		
Saturation Present? (includes capillary fringe) Yes • No	Depth (inches): 0	Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspections), if	available:
Remarks:		
		I

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant – Species?		Sampling Point: <u>w-bcr-042617-04</u>
	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)	-	Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3	_	0.0%		Species Across All Strata: (B)
4		0.0%		Percent of dominant Species
5		0.0%		That Are OBL, FACW, or FAC: 100.0% (A/B)
67		0.0%		Prevalence Index worksheet:
7	0	0.0%		Total % Cover of: Multiply by:
	0 -	= Total Cove		$0BL \text{ specilles } 0 \times 1 = 0$
Sapling-Sapling/Shrub Stratum (Plot size:)	_		FACW species $100 \times 2 = 200$
1	0	0.0%		FAC species $0 \times 3 = 0$
2	0	0.0%		FACU species $0 \times 4 = 0$
3	0	0.0%		
4		0.0%		
5	-	0.0%		Column Totals: <u>100</u> (A) <u>200</u> (B)
6		0.0%		Prevalence Index = B/A = 2.000
7	_	0.0%	·	Hydrophytic Vegetation Indicators:
8		0.0%		Rapid Test for Hydrophytic Vegetation
9		0.0%		✓ Dominance Test is > 50%
10		0.0%		\checkmark Prevalence Index is \leq 3.0 ¹
Shrub Stratum (Plot size:)		= Total Cover		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
23		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4		0.0%		be present, unless disturbed or problematic.
5.		0.0%		Definition of Vegetation Strata:
6.		0.0%		Four Vegetation Strata:
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.
Herb Stratum (Plot size:)	0 =	= Total Cove		(7.6 cm) or more in diameter at breast height (DBH), regardless of height.
1. Phalaris arundinacea	100	✓ 100.0%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding
2	0	0.0%		vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants,
3	0	0.0%		regardless of size, and all other plants less than 3.28 ft tall.
4.	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
5.	0	0.0%		in height.
6	0	0.0%		Five Vegetation Strata:
7	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	0.0%		diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody
10	0	0.0%		vines, approximately 20 ft (6 m) or more in height and less
11	0	0.0%		than 3 in. (7.6 cm) DBH.
12	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
	100 =	= Total Cove		Herb stratum – Consists of all herbaceous (non-woody) plants,
1	0	0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1
2		0.0%		m) in height.
3	0	0.0%		Woody vines – Consists of all woody vines, regardless of height.
4	0	0.0%		
5	0	0.0%		Hydrophytic
6	0	0.0%		Vegetation Present? Yes • No ·
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate shee	at)			

Profile Descr	ription: (Describe to	the depth n	eeded to documen	t the indic	ator or co	nfirm the a	bsence of indicators.)	
Depth	Matrix			dox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹		Texture	Remarks
0-12	10YR 4/2	80	10YR 4/6	20	C	M	Clay Loam	
					-			
							,,	·
	·						,,	
							,	
		on. RM=Reduc	ced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=Ma	atrix
Hydric Soil 1							Indicators for Proble	ematic Hydric Soils ³ :
Histosol (Dark Surface	• •			2 cm Muck (A10)	(MLRA 147)
	pedon (A2)		Polyvalue Belo				Coast Prairie Redo	ox (A16)
Black Hist			Thin Dark Surf			48)	(MLRA 147,148)	
	Sulfide (A4)		Loamy Gleyed				Piedmont Floodpl	ain Soils (F19)
	Layers (A5) k (A10) (LRR N)		Depleted Matr Redox Dark Su	• •			(MLRA 136, 147)	
		11)	Depleted Dark		7)		Very Shallow Darl	
· ·	Below Dark Surface (A k Surface (A12)	(11)	Redox Depress		,)		Other (Explain in	Remarks)
	ick Mineral (S1) (LRR N	J			(LRR	N.		
MLRA 14	7, 148)	ν,	MLRA 136)					
	eyed Matrix (S4)		Umbric Surfac				³ Indicators of	hydrophytic vegetation and
Sandy Re			Piedmont Floo				wetland hyd	Irology must be present,
Stripped I	Matrix (S6)		Red Parent Ma	aterial (F21)) (MLRA 12	7, 147)	unless dis	sturbed or problematic.
Restrictive L	ayer (if observed):							
Туре:								
Depth (inc	hes):						Hydric Soil Present?	Yes 💿 No 🔾
Remarks:							L	

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County: Carroll	Sampling Date: 26-Apr-17
Applicant/Owner: AEP	State: OH	Sampling Point: w-bcr-042617-03
Investigator(s): BCR/MDT	Section, Township, Range: S	3 T <u>15N</u> R <u>6W</u>
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none)	<u>concave</u> Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.630185 Long.:	-81.153235 Datum: NAD83
Soil Map Unit Name: FcB		NWI classification: NA
Are climatic/hydrologic conditions on the site typical for this time of ye	ar? Yes $ullet$ No $igodow$ (If no, exp	ain in Remarks.)
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 significant	ly disturbed? Are "Normal Circ	ımstances" present? Yes 🔍 No 🔾
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 naturally p	roblematic? (If needed, expla	in any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes 🖲	No		
Hydric Soil Present?	Yes 🖲	No	Is the Sampled Area	Yes 🖲 No 🔿
Wetland Hydrology Present?	Yes 🖲	No	within a Wetland?	
Remarks:				
PEM wetland on hillslope, seep str	eam outside	e corridor.		

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	required; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)	Hydrogen Sulfide O	dor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizosphe	res along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduce	ed Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduct	ion in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)	Thin Muck Surface	(C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	emarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes 🖲	No O Depth (inches):	2	
Water Table Present? Yes •	No O Depth (inches):	0	
Saturation Present? (includes capillary fringe) Yes •	No O Depth (inches):	0 Wetland Hyd	rology Present? Yes $oldsymbol{igodol}$ No $igodoldsymbol{igodoldelta}$
Describe Recorded Data (stream gaug	ge, monitoring well, aerial photos	s, previous inspections), if avai	ilable:
Remarks:			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			minant ecies? -		Sampling Point: <u>w-bcr-042617-03</u>
	Absolute % Cover	Re	I.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>.</u>			Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC: (A)
2			0.0%		Total Number of Dominant
3			0.0%		Species Across All Strata:(B)
4	-		0.0%		Percent of dominant Species
5			0.0%		That Are OBL, FACW, or FAC: 100.0% (A/B)
6 7			0.0%		Prevalence Index worksheet:
	0		0.0%		Total % Cover of: Multiply by:
8	· · · · ·	 = To	tal Cover		OBL species 15 x 1 = 15
_Sapling-Sapling/Shrub Stratum (Plot size:)					FACW species $130 \times 2 = 260$
1	0		0.0%		FAC species $0 \times 3 = 0$
2	0		0.0%		
3	0		0.0%		FACU species $0 \times 4 = 0$
4	0		0.0%		UPL species $\underbrace{0}_{x 5} = \underbrace{0}_{(0)}$
5	0		0.0%		Column Totals: <u>145</u> (A) <u>275</u> (B)
6	0		0.0%		Prevalence Index = B/A = 1.897
7	0		0.0%		Hydrophytic Vegetation Indicators:
8	0		0.0%		✓ Rapid Test for Hydrophytic Vegetation
9	0		0.0%		✓ Dominance Test is > 50%
10		\square	0.0%		✓ Prevalence Index is ≤3.0 1
Shrub Stratum (Plot size:)	:	= То	tal Cover		Morphological Adaptations ¹ (Provide supporting
1	0		0.0%		data in Remarks or on a separate sheet)
2	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3			0.0%		¹ Indicators of hydric soil and wetland hydrology must
4	0		0.0%		be present, unless disturbed or problematic.
5	0		0.0%		Definition of Vegetation Strata:
6	0		0.0%		Four Vegetation Strata:
7	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= То	tal Cover		regardless of height.
1. Phalaris arundinacea	100		69.0%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Impatiens capensis	30		20.7%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Acorus calamus	15		10.3%	OBL	regardless of size, and all other plants less than 3.28 ft tall.
4	0		0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft in height.
5	0		0.0%		in neight.
6	0		0.0%		Five Vegetation Strata:
7	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0	\square	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0		0.0%		diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody
10	0		0.0%		vines, approximately 20 ft (6 m) or more in height and less
11	0		0.0%		than 3 in. (7.6 cm) DBH.
12	0	\square_{-}	0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
	145 :	= To	tal Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,
1	0		0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1
2	0		0.0%		m) in height.
3	0		0.0%		Woody vines – Consists of all woody vines, regardless of
4			0.0%		height.
5	0		0.0%		Hydrophytic
6	0		0.0%		Vegetation
	0	= To	tal Cove	r	Present? Yes Vo V
Remarks: (Include photo numbers here or on a separate shee	at)				•

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

Donth		Matula	•		Ded			nnrm the a	absence of indicators.)		
Depth (inches)	Color (n	<u>Matrix</u> noist)	%	Color (mo		ox Featu %	Tvpe ¹	Loc ²	Texture	Rem	narks
0-12		5/1	80		/8	20	С	 M	Clay Loam		
						-				- ç	
						p				-	
			·							-	
T		Dealette			0				tion. DL Done Lining M A	1 - 4 - 1 - 1	
		=Depletio	n. RIVI=Real	uced Matrix, CS=	Covered	or Coate	d Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=N		
Hydric Soil I					c	7)			Indicators for Probl	ematic Hydri	c Soils ³ :
Histosol (rface (ST			447 4 (0)	2 cm Muck (A10)	(MLRA 147)	
	pedon (A2)						S8) (MLRA		Coast Prairie Rec	ox (A16)	
Black Hist							LRA 147, 1	48)	(MLRA 147,148)		
	Sulfide (A4) Layers (A5)					atrix (F2)			Piedmont Floodp	lain Soils (F19)	
		NI		Depleted Redox D					(MLRA 136, 147)		
_	k (A10) (LRR					ace (F6) urface (F7	n)		Very Shallow Da		2)
	Below Dark Si		11)	Redox D)		Other (Explain in	Remarks)	
_	k Surface (A1				•		F12) (LRR	N			
Sandy Mu MLRA 147	ick Mineral (S [*] 7, 148)	1) (LRR N	,	MLRA 13		wasses (12) (LKK	Ν,			
	eyed Matrix (S	4)		Umbric :	Surface	(F13) (ML	RA 136, 12	2)			
Sandy Ree		.,		Piedmor	nt Floodp	blain Soils	(F19) (ML	RA 148)	³ Indicators of	hydrophytic ve	egetation and
	Matrix (S6)						(MLRA 12		wetland ny unless d	drology must b isturbed or prol	e present, blematic.
						. ,		. ,			
	ayer (if obse	erved):									
	ayer (if obse	erved):							Undria Cail Presenta	Mar (
Restrictive La		erved):							Hydric Soil Present?	Yes 🖲	No O
Restrictive La		erved):							Hydric Soil Present?	Yes 🖲	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No ()
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes 🖲	No 🔿
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes 🖲	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes ()	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	NO O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	NO O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	NO
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	NO O
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	NO
Restrictive La Type: Depth (incl		erved):							Hydric Soil Present?	Yes •	No O

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County: Carroll	Sampling Date: 26-Apr-17
Applicant/Owner: AEP	State: OH	Sampling Point: w-bcr-042617-02
Investigator(s): BCR/MDT	Section, Township, Range: S	3 T <u>15N</u> R <u>6W</u>
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none)	: <u>concave</u> Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.631008 Long.:	-81.154722 Datum: NAD83
Soil Map Unit Name: FCB		NWI classification: NA
Are climatic/hydrologic conditions on the site typical for this time of ye	ar? Yes $ullet$ No $igodown$ (If no, exp	lain in Remarks.)
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 significant	ly disturbed? Are "Normal Circ	umstances" present? Yes $ullet$ No $igodot$
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, expla	in any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes ● Yes ●	No 〇 No 〇	Is the Sampled Area	Yes 💿 No 🔿
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM wetland on hillslope, seep str	eam outside	e corridor.		

Wetland Hydrology Indicat	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minim	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeri	al Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:				
Surface Water Present?	$_{ m Yes}$ \bigcirc	No 🖲	Depth (inches):	
Water Table Present?	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	Ivdrology Present? Yes 💿 No 🔾
Saturation Present? (includes capillary fringe)	Yes 🖲	$_{\rm No}$ \bigcirc	Depth (inches): 0	lydrology Present? Yes 🔍 No 🔾
	tream gaug	ge, monito	ring well, aerial photos, previous inspections), if a	vailable:
Remarks:				

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant 		Sampling Point: w-bcr-042617-02
	Absolute % Cover	Rel.Stra	t. Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>.</u>		Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3		0.0%		Species Across All Strata: (B)
4	_	0.0%		Percent of dominant Species
5		0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6		0.0%		
7		0.0%		Prevalence Index worksheet:
8	0	0.0%		Total % Cover of: Multiply by:
_Sapling-Sapling/Shrub Stratum (Plot size:)) =	= Total Co	ver	$\begin{array}{c} \text{OBL speciles} 0 \text{x 1} = 0 \\ \text{or solution} 0 or so$
1		0.0%	6	FACW species <u>165</u> x 2 = <u>330</u>
2.	_	0.0%	6	FAC species $0 \times 3 = 0$
3		0.0%	6	FACU species $0 \times 4 = 0$
4.		0.0%	6	UPL species $0 \times 5 = 0$
5.		0.0%	6	Column Totals: <u>165</u> (A) <u>330</u> (B)
6		0.0%	<u> </u>	Prevalence Index = $B/A = 2.000$
7		0.0%	<u> </u>	
8.	_	0.0%	<u> </u>	Hydrophytic Vegetation Indicators:
9		0.0%	6	✓ Rapid Test for Hydrophytic Vegetation
10		0.0%	~ 6	✓ Dominance Test is > 50%
		= Total Co		✓ Prevalence Index is \leq 3.0 ¹
<u>Shrub Stratum</u> (Plot size:) 1		0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2		0.0%	6	Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%	6	¹ Indicators of hydric soil and wetland hydrology must
4		0.0%	6	be present, unless disturbed or problematic.
5		0.0%	6	Definition of Vegetation Strata:
6		0.0%	6	Four Vegetation Strata:
7.	0	0.0%	6	Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 =	= Total Co	ver	regardless of height.
	85	51.5	% FACW	Sapling/shrub stratum – Consists of woody plants, excluding
Phalaris arundinacea Solidago gigantea	25	15.29		vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Leersia virginica	30	18.29		regardless of size, and all other plants less than 3.28 ft tall.
4. Agrimonia parvifiora	10	6.19		Woody vines – Consists of all woody vines greater than 3.28 ft
5. Carex sp.	15	9.19		in height.
6.	0	0.0%	 6	
7		0.0%	 6	Five Vegetation Strata:
8.	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
	0	0.0%		diameter at breast height (DBH).
9	0	0.0%		Sapling stratum – Consists of woody plants, excluding woody
11		0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
12	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody
		= Total Co		vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)			,	Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1	0	0.0%		species, except woody vines, less than approximately 3 ft (1
2	0	0.0%		m) in height.
3		0.0%		Woody vines – Consists of all woody vines, regardless of height.
4		0.0%		
5	0	0.0%		Hydrophytic
6	0	0.0%		Vegetation Present? Yes No
	0	= Total Co	over	
Remarks: (Include photo numbers here or on a separate shee	at)			

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

Profile Descr	ription: (Describe to	the depth r				nfirm the a	absence of indicators.)		
Depth	Matrix			dox Featu			·		
(inches) 0-12	Color (moist) 10YR 4/2	80	Color (moist) 10YR 4/6	% 20	1 C	Loc ²	Texture Remarks Silty Clay Loam		
0-12	101K 4/2		101K 4/0			IVI			
							·		
			······			<u>.</u>			
1			and Matrix CC. Course						
		on. RM=Redu	ced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ains ² Locat	ation: PL=Pore Lining. M=Matrix		
Hydric Soil 1				(07)			Indicators for Problematic Hydric Soils ³ :		
Histosol (Dark Surface			147 140	2 cm Muck (A10) (MLRA 147)		
Black Hist	pedon (A2)		Polyvalue Belo				Coast Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Gleyed			140)	(MLRA 147,148)		
	Layers (A5)		Depleted Matr)		Piedmont Floodplain Soils (F19) (MLRA 136, 147)		
	:k (A10) (LRR N)		Redox Dark Su						
	Below Dark Surface (A	(11)	Depleted Dark	. ,	7)		Very Shallow Dark Surface (TF12)		
· ·	rk Surface (A12)	(11)	Redox Depres		,		Uther (Explain in Remarks)		
	uck Mineral (S1) (LRR I	N.	Iron-Mangane		(F12) (LRR	N,			
MLRA 14	7, 148)	-1	MLRA 136)						
Sandy Gle	eyed Matrix (S4)		Umbric Surfac	e (F13) (M	LRA 136, 12	22)	³ Indicators of hydrophytic vegetation and		
Sandy Re	edox (S5)		Piedmont Floo	dplain Soils	s (F19) (MLI	RA 148)	wetland hydrology must be present,		
Stripped	Matrix (S6)		Red Parent Ma	aterial (F21) (MLRA 12	7, 147)	unless disturbed or problematic.		
Restrictive I	ayer (if observed):								
Туре:	ayer (ir observeu).								
Depth (inc							Hydric Soil Present? Yes 🔍 No 🔾		
Remarks:									
Remarks.									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County: C	arroll	Samplir	ng Date: 26-Apr-17
Applicant/Owner: AEP		State: OH	Sampling Poin	nt: w-bcr-042617-01
Investigator(s): BCR/MDT	Section, Townsh	hip, Range: S 2	3 T _15N	R _6W
Landform (hillslope, terrace, etc.): Lowland	Local relief (conca	ave, convex, none)	concave	Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.631600	Long.:	-81.155912	Datum: NAD83
Soil Map Unit Name: FcB			NWI classification:	NA
Are climatic/hydrologic conditions on the site typical for this time of ye Are Vegetation , Soil , or Hydrology significant	ear? Yes 🖲 No ly disturbed?	x , , , , , ,	ain in Remarks.) umstances" present?	Yes 🔍 No
Are Vegetation, Soil, or Hydrology naturally p	oroblematic?	(If needed, expla	in any answers in Re	marks.)

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿			
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔿	
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?		
Remarks:					
PEM wetland within existing t-line	ROW.				

Wetland Hydrology Indicat	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minim	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
✓ Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			,	Geomorphic Position (D2)
Inundation Visible on Aeri	al Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	_	_		
Surface Water Present?	Yes \bigcirc	No 💿	Depth (inches):	
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches):4	
	100 -	110 -	Deptil (inches).	
Saturation Present? (includes capillary fringe)	Yes •	No O	Depth (inches): 0	lydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
Saturation Present? (includes capillary fringe)	Yes 🖲	No O	Wetland H	,
Saturation Present? (includes capillary fringe)	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe)	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	Yes 🖲	No O	Depth (inches): 0	,

VEGETATION (Five/Four Strata)- Use scientific names of plants.

	Domina			Sampling Point: <u>w-bcr-042617-01</u>		
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Status	Dominance Test worksheet:		
	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1		0.0%		That are OBL, FACW, or FAC: (A)		
2		0.0%		Total Number of Dominant		
3		0.0%		Species Across All Strata: (B)		
4		0.0%		Percent of dominant Species		
5		0.0%		That Are OBL, FACW, or FAC: 100.0% (A/B)		
6						
7		0.0%		Prevalence Index worksheet:		
8	0	0.0%		Total % Cover of: Multiply by:		
Sapling-Sapling/Shrub Stratum (Plot size:)		= Total Cover		OBL species <u>10</u> x 1 = <u>10</u>		
1	0	0.0%		FACW species <u>160</u> x 2 = <u>320</u>		
2	0	0.0%	<u>.</u>	FAC species $0 \times 3 = 0$		
3.		0.0%		FACU species $0 \times 4 = 0$		
4		0.0%		UPL species $0 \times 5 = 0$		
5		0.0%		Column Totals:(A)(B)		
		0.0%		Prevalence Index = $B/A = 1.941$		
6 7		0.0%				
		0.0%		Hydrophytic Vegetation Indicators:		
8		0.0%		Rapid Test for Hydrophytic Vegetation		
9				✓ Dominance Test is > 50%		
10				✓ Prevalence Index is \leq 3.0 ¹		
Shrub Stratum (Plot size:) 1)	0 :	= Total Cover		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
2		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must		
		0.0%		be present, unless disturbed or problematic.		
4		0.0%		Definition of Vegetation Strata:		
5		0.0%		Four Vegetation Strata:		
6				Tree stratum – Consists of woody plants, excluding vines, 3 in.		
7	0	0.0%		(7.6 cm) or more in diameter at breast height (DBH),		
Herb Stratum (Plot size:)		= Total Cover		regardless of height. Sapling/shrub stratum – Consists of woody plants, excluding		
1. Phalaris arundinacea	80	47.1%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
2. Impatiens capensis	30	✓ 17.6%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,		
3. Juncus effusus	5	2.9%	FACW	regardless of size, and all other plants less than 3.28 ft tall.		
4. Solidago gigantea	15	8.8%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft in height.		
5. Acorus calamus	10	5.9%	OBL	in roight		
6. <u>Carex sp.</u>	30	✓ 17.6%	FACW	Five Vegetation Strata:		
7	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20		
8	0	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in		
9	0	0.0%		diameter at breast height (DBH).		
10	0	0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less		
11		0.0%		than 3 in. (7.6 cm) DBH.		
12	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody		
Woody Vine Stratum (Plot size:)	170	= Total Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants,		
	0	0.0%		including herbaceous vines, regardless of size, and woody		
1				species, except woody vines, less than approximately 3 ft (1		
2		0.0%		m) in height.		
3		0.0%		Woody vines – Consists of all woody vines, regardless of height.		
4	0	0.0%				
5	0	0.0%		Hydrophytic		
6	0	0.0%		Vegetation Present? Yes No		
	0	= Total Cove	r			
Remarks: (Include photo numbers here or on a separate shee	et.)					

Profile Descr	iption: (Describe to	the depth	needed to document	t the indic	ator or co	nfirm the a	bsence of indicators.)		
Depth	Matrix		Re	dox Featu					
(inches)	Color (moist)	%	Color (moist)	%	Tvpe	Loc ²	Texture	Remarks	
0-12 	5/1	85 	5YR 5/8		C		Silty Clay Loam		
1 Type: C=Con		 n. RM=Redu	iced Matrix, CS=Cover	ed or Coate	ed Sand Gra		ion: PL=Pore Lining. M=Ma		
Histosol (, Histic Epij Black Hist Hydrogen Stratified 2 cm Muc Depleted Thick Dar Sandy Mu	A1) bedon (A2) ic (A3) Sulfide (A4) Layers (A5) k (A10) (LRR N) Below Dark Surface (A k Surface (A12) ick Mineral (S1) (LRR N	·	 Dark Surface (Polyvalue Belo Thin Dark Surf Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark Redox Depress Iron-Manganes: MLRA 136) 	w Surface (ace (S9) (M Matrix (F2) x (F3) rface (F6) Surface (F6) sions (F8)	1LRA 147, 1	48)	Indicators for Proble 2 cm Muck (A10) Coast Prairie Redo (MLRA 147,148) Piedmont Floodpla (MLRA 136, 147) Very Shallow Dark Other (Explain in F	(MLRA 147) x (A16) hin Soils (F19) Surface (TF12)	
Sandy Ree	eyed Matrix (S4) dox (S5) Matrix (S6)		Umbric Surface Piedmont Floo Red Parent Ma	dplain Soils	(F19) (MLI	RA 148)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Type: Depth (incl	ayer (if observed):						Hydric Soil Present?	Yes No	
Remarks:									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County: Carroll	Sampling Date: 22-Jun-16		
Applicant/Owner: AEP	State: OH	Sampling Point: w-bcr-042517-02		
Investigator(s): BCR/MDT	Section, Township, Range: S	31 T <u>16N</u> R <u>6W</u>		
Landform (hillslope, terrace, etc.): depression	Local relief (concave, convex, none	Slope: <u>0.0%</u> / <u>0.0</u> °		
Subregion (LRR or MLRA): LRR N Lat.:	40.654029 Long.:	-81.198002 Datum: NAD83		
Soil Map Unit Name: Sb		NWI classification: NA		
Are climatic/hydrologic conditions on the site typical for this time of your Are Vegetation, Soil, or Hydrology significant	τ,	olain in Remarks.) cumstances" present? Yes 💌 No 🔾		
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, exp	ain any answers in Remarks.)		

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

Yes 🖲	No 🔿			
Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾	
Yes 🖲	No O	within a Wetland?		
	Yes •	Yes No	Yes No Is the Sampled Area	

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	Surface Soil Cracks (B6)		
✓ Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)			Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery (B7)		Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9))			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:		-		
Surface Water Present?	Yes 🖲	No 🔿	Depth (inches): 2	
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches): 0	Hydrology Present? Yes \odot No \bigcirc
Saturation Present? (includes capillary fringe)	Yes 🖲	No \bigcirc	Depth (inches): 0	Hydrology Present? Yes 🔍 No 🔾
Describe Recorded Data (st	ream gau	ge, monito	ring well, aerial photos, previous inspections), if a	available:
Remarks:				

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant – Species?		Sampling Point: <u>w-bcr-042517-02</u>
	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>.</u>		Status	Number of Dominant Species
1	00	0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3		0.0%		Species Across All Strata:(B)
4	-	0.0%		Percent of dominant Species
5		0.0%		That Are OBL, FACW, or FAC:100.0% (A/B)
6 7		0.0%		Prevalence Index worksheet:
	0	0.0%		Total % Cover of: Multiply by:
8	0.	= Total Cove		OBL species 15 x 1 = 15
Sapling-Sapling/Shrub Stratum (Plot size:				FACW species $110 \times 2 = 220$
1	0	0.0%		FAC species $0 \times 3 = 0$
2	0	0.0%		
3	0	0.0%		FACU species $0 \times 4 = 0$
4	0	0.0%		UPL species $\underbrace{0}_{x 5} = \underbrace{0}_{(7)}$
5	0	0.0%		Column Totals: <u>125</u> (A) <u>235</u> (B)
6	0	0.0%		Prevalence Index = B/A = 1.880
7	0	0.0%		Hydrophytic Vegetation Indicators:
8	0	0.0%		Rapid Test for Hydrophytic Vegetation
9	0	0.0%		✓ Dominance Test is > 50%
10		0.0%		✓ Prevalence Index is ≤3.0 1
Shrub Stratum (Plot size:)	:	= Total Cove	er	Morphological Adaptations ¹ (Provide supporting
1	0	0.0%		data in Remarks or on a separate sheet)
2	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4	0	0.0%		be present, unless disturbed or problematic.
5	0	0.0%		Definition of Vegetation Strata:
6	0	0.0%		Four Vegetation Strata:
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 =	= Total Cove	er	regardless of height.
1. Phalaris arundinacea	90	72.0%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Typha angustifolia	15	12.0%	OBL	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Juncus effusus	10	8.0%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4. Scirpus cyperinus	10	8.0%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft in height.
5	0	0.0%		
6	0	0.0%		Five Vegetation Strata:
7	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	0.0%		diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody
10	0	0.0%		vines, approximately 20 ft (6 m) or more in height and less
11	0	0.0%		than 3 in. (7.6 cm) DBH.
12	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)	125 =	= Total Cove	er	Herb stratum – Consists of all herbaceous (non-woody) plants,
1	0	0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1
2	0	0.0%		m) in height.
3	0	0.0%		Woody vines – Consists of all woody vines, regardless of
4		0.0%		height.
5	0	0.0%		Hydrophytic
6	0	0.0%		Hydrophytic Vegetation
	0	= Total Cov	er	Present? Yes No
Remarks: (Include photo numbers here or on a separate shee	at)			

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

Profile Desc	ription: (Describe to	the depth r	needed to documen	t the indic	ator or co	nfirm the a	bsence of indicators.)		
Depth	Matrix Redox Features			- Douturo Doutorio					
(inches)		%	Color (moist)	%	1	Loc ²	Claud com	Rema	arks
0-12	10YR 5/1	70	5YR 6/8	30	C	M	Clay Loam		
	. <u> </u>						·		
							·		
			······						
1 - 0 0									
		on. RM=Redu	ced Matrix, CS=Cover	red or Coate	ed Sand Gra	iins ² Locat	tion: PL=Pore Lining. M=Ma	itrix	
Hydric Soil				(07)			Indicators for Proble	matic Hydric	Soils ³ :
Histosol (Dark Surface			147 140)	2 cm Muck (A10)	(MLRA 147)	
Black His	ipedon (A2)		Polyvalue Belo				Coast Prairie Redo	x (A16)	
	n Sulfide (A4)		Loamy Gleyed			40)	(MLRA 147,148)		
	Layers (A5)		 Depleted Matr)		Piedmont Floodpla (MLRA 136, 147)	in Soils (F19)	
	ck (A10) (LRR N)		Redox Dark Su					Curfood /TE1/	2)
	Below Dark Surface (A	(11)	Depleted Dark		7)		Very Shallow Dark		2)
	rk Surface (A12)	(11)	Redox Depres		,		Other (Explain in I	Remarks)	
	uck Mineral (S1) (LRR N	N.	Iron-Mangane		(F12) (LRR	N,			
MLRA 14	7, 148)	- /	MLRA 136)						
Sandy Gl	eyed Matrix (S4)		Umbric Surfac	e (F13) (M	LRA 136, 12	22)	³ Indicators of h		
Sandy Re			Piedmont Floo	odplain Soils	s (F19) (MLI	RA 148)	wetland hyd	rology must be	present,
Stripped	Matrix (S6)		Red Parent Ma	aterial (F21) (MLRA 12	7, 147)	unless dis	turbed or prob	lematic.
Restrictive L	ayer (if observed):								
Type:									
Depth (inc	ches):						Hydric Soil Present?	Yes 🖲	No 🔿
Remarks:									
Romanto.									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County: Carroll	Sampling Date: 25-Apr-17
Applicant/Owner: AEP	State: OH	Sampling Point: w-bcr-042517-03
Investigator(s): BCR/MDT	Section, Township, Range: S	T <u>16N</u> R <u>6W</u>
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none)	none Slope: 0.0% / 0.0 °
Subregion (LRR or MLRA): LRR N Lat.:	40.654574 Long. :	-81.198445 Datum: NAD83
Soil Map Unit Name: Sb		NWI classification: NA
	ly disturbed? Are "Normal Circ	lain in Remarks.) umstances" present? Yes

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

Hydrophytic Vegetation Present?	Yes 🖲	No O		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PSS wetland				

Wetland Hydrology Indicat	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)			Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9))			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:		\sim		
Surface Water Present?	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Water Table Present?	Yes 🖲	No 🔿	Depth (inches): <u>10</u>	drology Present? Yes \odot No \bigcirc
Saturation Present? (includes capillary fringe)	Yes 🖲	$_{\rm No}$ \bigcirc	Depth (inches):0	drology Present? Yes • No 🔾
Describe Recorded Data (st	tream gaug	ge, monito	ring well, aerial photos, previous inspections), if ava	ilable:
Remarks:				

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			minant ecies?		Sampling Point: <u>w-bcr-042517-03</u>
Tree Stratum (Plot size:)	Absolute % Cover	Re	l.Strat.	Indicator Status	Dominance Test worksheet:
	0		0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)
1			0.0%		
3		\square	0.0%		Total Number of Dominant
4		\square	0.0%		Species Across All Strata:5_(B)
5		\square	0.0%		Percent of dominant Species
6.		\square	0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7		\square	0.0%		Prevalence Index worksheet:
8.	0	\square	0.0%		Total % Cover of: Multiply by:
	0	= To	tal Cove		OBL species 0 x 1 = 0
Sapling-Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =230
1	0		0.0%		FAC specilles $0 \times 3 = 0$
2			0.0%		FACU species $0 \times 4 = 0$
3			0.0%		UPL species $0 \times 5 = 0$
4			0.0%		
5			0.0%		Column Totals: <u>115</u> (A) <u>230</u> (B)
6			0.0%		Prevalence Index = B/A = 2.000
7			0.0%		Hydrophytic Vegetation Indicators:
8			0.0%		Rapid Test for Hydrophytic Vegetation
9			0.0%		✓ Dominance Test is > 50%
10			0.0%		✓ Prevalence Index is ≤3.0 1
Shrub Stratum (Plot size:)	0		tal Cove	r	Morphological Adaptations ¹ (Provide supporting
1. Cornus amomum	70		77.8%	FACW	data in Remarks or on a separate sheet)
2. Salix bebbiana	20	⊻.	22.2%	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4	0		0.0%		be present, unless disturbed or problematic.
5	0		0.0%		Definition of Vegetation Strata:
6	0	\square	0.0%		Four Vegetation Strata:
7	0	$\square_{}$	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	90	= To	tal Cove	r	regardless of height.
1. Phalaris arundinacea	10		40.0%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Impatiens capensis	10		40.0%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Scirpus cyperinus	5		20.0%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4	0		0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft in height.
5	0		0.0%		in neight.
6	0		0.0%		Five Vegetation Strata:
7	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0	\square	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0		0.0%		diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody
10			0.0%		vines, approximately 20 ft (6 m) or more in height and less
11	0		0.0%		than 3 in. (7.6 cm) DBH.
12		\square	0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
	25	= To	tal Cove	r	Herb stratum – Consists of all herbaceous (non-woody) plants,
1	0		0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1
2	0		0.0%		m) in height.
3.			0.0%		Woody vines – Consists of all woody vines, regardless of
4			0.0%		height.
5			0.0%		Hudrophytic
6	0		0.0%		Hydrophytic Vegetation
	0	= To	otal Cove	r	Present? Yes No
Remarks: (Include photo numbers here or on a separate she					1

a sep

Profile Descr	iption: (Describe to	the depth r	eeded to document	the indic	ator or co	nfirm the a	bsence of indicators.)	
Depth	Matrix			dox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe	Loc ²	Texture	Remarks
0-12	10YR 5/1	70	5YR 6/1	30	C	M	Silty Clay	
-	p							
	u							
							-	
¹ Type: C=Con	centration. D=Depletic	on. RM=Redu	ced Matrix. CS=Cover	ed or Coate	ed Sand Gra	ains ² Locat	tion: PL=Pore Lining. M=M	atrix
Hydric Soil 1						2000	-	
Histosol (Dark Surface (\$7)			Indicators for Proble	ematic Hydric Soils ³ :
	pedon (A2)		Polyvalue Belov	,	(S8) (MI DA	147 149)	2 cm Muck (A10)	(MLRA 147)
Black Hist			Thin Dark Surf				Coast Prairie Red	ох (А16)
	Sulfide (A4)		Loamy Gleyed			140)	(MLRA 147,148)	
	Layers (A5)		Depleted Matri)		Piedmont Floodpl (MLRA 136, 147)	ain Soils (F19)
	k (A10) (LRR N)		Redox Dark Su					
		11)	Depleted Dark	. ,	7)		Very Shallow Dar	
· ·	Below Dark Surface (A	(11)	Redox Depress		/)		Other (Explain in	Remarks)
	k Surface (A12)				(F12) (I DD	N		
MLRA 147	ıck Mineral (S1) (LRR N 7. 148)	Ν,	MLRA 136)	ie masses (IN,		
	eyed Matrix (S4)		Umbric Surface	e (F13) (MI	_RA 136, 12	22)		
Sandy Re			Piedmont Floo	dplain Soils	; (F19) (MLI	RA 148)	³ Indicators of	hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma					Irology must be present, sturbed or problematic.
					, (.,,		
Restrictive L	ayer (if observed):							
Туре:								
Depth (inc	hes):						Hydric Soil Present?	Yes $ullet$ No $igodot$
Remarks:								

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County:	Carroll	Sampli	ng Date: 25-Apr-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: w-bcr-042517-01
Investigator(s): BCR/MDT	Section, Tow	nship, Range: S	25 T _17N	R 7W
Landform (hillslope, terrace, etc.): Depression	Local relief (co	ncave, convex, none): concave	Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.663771	Long.:	-81.214057	Datum: NAD83
Soil Map Unit Name: Or			NWI classification:	PEM1C
	ear? Yes y disturbed?	Are "Normal Circ	lain in Remarks.) cumstances" present? ain any answers in Re	

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

Hydrophytic Vegetation Present?	Yes 🖲	No O		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 💿 No 🔿
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM wetland in ROW with perenni	al input.			

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of or	ne required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imager	y (B7)		Shallow Aquitard (D3)
✓ Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			✓ FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes) No 🔿	Depth (inches): 6	
Water Table Present? Yes) No 🔿	Depth (inches):0	tydrology Present? Yes 💿 No 🔾
		Wotland H	lydrology Present? Yes $ullet$ No $igcup$
Saturation Present? (includes capillary fringe) Yes	No 🔿	Depth (inches): 0	
(includes capillary fringe) Yes			,
(includes capillary fringe) Yes		Depth (inches): 0	,
(includes capillary fringe) Yes		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Construction Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			ominant oecies? -		Sampling Point: <u>w-bcr-042517-01</u>
Tree Stratum (Plot size:)	Absolute % Cover	Re		Indicator Status	Dominance Test worksheet:
1	0		0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
2.			0.0%		
3			0.0%		Total Number of Dominant Species Across All Strata: 4 (B)
4.			0.0%		
5.			0.0%		Percent of dominant Species
6			0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7			0.0%		Prevalence Index worksheet:
8.	0		0.0%		Total % Cover of: Multiply by:
	:	= To	otal Cover		OBL species <u>25</u> x 1 = <u>25</u>
Sapling-Sapling/Shrub Stratum (Plot size:)			0.0%		FACW species <u>120</u> x 2 = <u>240</u>
1			0.0%		FAC species x 3 =45
2			0.0%		FACU species $0 \times 4 = 0$
3			0.0%		UPL species $0 \times 5 = 0$
4			0.0%		Column Totals:(A)(B)
5			0.0%		
•			0.0%		Prevalence Index = B/A = <u>1.938</u>
7			0.0%		Hydrophytic Vegetation Indicators:
89		\square	0.0%		Rapid Test for Hydrophytic Vegetation
			0.0%		✓ Dominance Test is > 50%
10		= To	otal Cover		✓ Prevalence Index is \leq 3.0 ¹
Shrub Stratum (Plot size:)			66.7%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. <u>Viburnum dentatum</u>	-		33.3%	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Sambucus nigra</u>			0.0%	TAC	¹ Indicators of hydric soil and wetland hydrology must
3			0.0%		be present, unless disturbed or problematic.
			0.0%		Definition of Vegetation Strata:
5			0.0%		Four Vegetation Strata:
6	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.
7		ш. = То	otal Cover		(7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Herb Stratum (Plot size:)		_			Sapling/shrub stratum – Consists of woody plants, excluding
1. Impatiens capensis	50		34.5%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Typha angustifolia	10		6.9% 41.4%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
3. Phalaris arundinacea	<u>60</u> 5		3.4%	OBL	Woody vines – Consists of all woody vines greater than 3.28 ft
<u>Symplocarpus foetidus</u> Onoclea sensibilis	10		6.9%	FACW	in height.
6 Carex vulpinoidea	5		3.4%	OBL	
7. Leersia oryzoides	5		3.4%	OBL	Five Vegetation Strata:
8	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0		0.0%		diameter at breast height (DBH).
10		\square	0.0%		Sapling stratum – Consists of woody plants, excluding woody
11			0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
12.			0.0%		Shrub stratum – Consists of woody plants, excluding woody
Woody Vine Stratum (Plot size:)		= To	otal Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants,
	0	\square	0.0%		including herbaceous vines, regardless of size, and woody
1			0.0%		species, except woody vines, less than approximately 3 ft (1 m) in height.
2			0.0%	·	Woody vines – Consists of all woody vines, regardless of
3			0.0%		height.
4	0		0.0%		
56	0		0.0%		Hydrophytic Vegetation
6		 = Te	otal Cove	r	Present? Yes No
Remarks: (Include photo numbers here or on a separate shee		-			

Remarks: (Include photo numbers here or on a separate shee carex sp 20

	ription: (De		the depth	needed to docum			onfirm the a	absence of indicators.)	
Depth (inches)	Color	Matrix (moist)	%	Color (moist	Redox Feat	Tvpe ¹	Loc ²	Texture	Remarks
0-16	10YR	5/1	70	5YR 5/8	30	C	M	Clay Loam	Remarks
				u					
	-								
-	<u>.</u>	-		<u>.</u>					
	u								
			·						
¹ Type: C=Con	centration.	D=Depletio	n. RM=Red	uced Matrix, CS=Co	vered or Coat	ed Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil 1	Indicators							Indicators for Proble	ematic Hydric Soils ³ :
Histosol (Dark Surfa				2 cm Muck (A10)	-
Histic Epi	pedon (A2)			Polyvalue E	Below Surface	(S8) (MLRA	147,148)	Coast Prairie Red	
Black Hist	tic (A3)			Thin Dark S	Surface (S9) (MLRA 147, 1	148)	(MLRA 147,148)	DX (A16)
	n Sulfide (A4			Loamy Gle	yed Matrix (F2	2)		Piedmont Floodpl	ain Soils (F19)
Stratified	Layers (A5)			Depleted N	latrix (F3)			(MLRA 136, 147)	
2 cm Muc	k (A10) (LR	RN)		Redox Darl	< Surface (F6)			Very Shallow Dar	k Surface (TF12)
Depleted	Below Dark	Surface (A	11)	Depleted D	ark Surface (I	7)		Other (Explain in	Remarks)
Thick Dar	k Surface (#	A12)		Redox Dep	ressions (F8)				
Sandy Mu MLRA 14	uck Mineral 7, 148)	(S1) (LRR N	Ι,	Iron-Manga MLRA 136)	anese Masses	(F12) (LRR	Ν,		
Sandy Gle	eyed Matrix	(S4)		Umbric Su	face (F13) (N	ILRA 136, 12	22)	2	
Sandy Re	dox (S5)			Piedmont I	loodplain Soil	s (F19) (ML	RA 148)	³ Indicators of wetland by	hydrophytic vegetation and drology must be present,
Stripped I	Matrix (S6)			Red Parent	Material (F21	I) (MLRA 12	7, 147)		sturbed or problematic.
Restrictive L	aver (if oh	convod):							
Type:									
	hes):							Hydric Soil Present?	Yes 🔍 No 🔾
	nes).								
Remarks:									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County:	Carroll	Samplii	ng Date: 25-Apr-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: w-bcr-042517-04
Investigator(s): BCR/MDT	Section, Tow	nship, Range: S 2	T <u>17N</u>	R 7W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (co	ncave, convex, none	concave	Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.666448	Long.:	-81.217559	Datum: NAD83
Soil Map Unit Name: Ho			NWI classification:	NA
	ear? Yes • Iy disturbed?	Are "Normal Circ	lain in Remarks.) umstances" present? ain any answers in Re	

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

Hydrophytic Vegetation Present?	Yes 🖲	No O		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 💿 No 🔿
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM wetland fringe along perennia	al stream.			

Wetland Hydrology Indicat	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minim	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)			Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			,	Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-neutral Test (D5)
Field Observations:	_	_		
Surface Water Present?	$Yes \bigcirc$	No 🖲	Depth (inches):	
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches):8	
0 I II B IO	~	\sim	Wetland H	Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
Saturation Present? (includes capillary fringe)	Yes 🖲	No 🔿	Depth (inches): 0	
(includes capillary fringe)			Depth (inches):0 ring well, aerial photos, previous inspections), if a	·····
(includes capillary fringe)			Depth (inches): 0	·····
(includes capillary fringe)			Depth (inches): 0	·····
(includes capillary fringe) Describe Recorded Data (st			Depth (inches): 0	·····
(includes capillary fringe) Describe Recorded Data (st			Depth (inches): 0	·····
(includes capillary fringe) Describe Recorded Data (st			Depth (inches): 0	·····
(includes capillary fringe) Describe Recorded Data (st			Depth (inches): 0	·····
(includes capillary fringe) Describe Recorded Data (st			Depth (inches): 0	·····
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(includes capillary fringe) Describe Recorded Data (st			Depth (inches): 0	·····
(includes capillary fringe) Describe Recorded Data (st			Depth (inches): 0	·····
(includes capillary fringe) Describe Recorded Data (st			Depth (inches): 0	·····

VEGETATION (Five/Four Strata)- Use scientific names of plants.

·····, ·····, ·····, ······,		Dominant – Species? –		Sampling Point: <u>w-bcr-042517-04</u>
	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)		Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4		0.0%		Percent of dominant Species
5		0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6		0.0%		Droublence Index werkehoet
7	0	0.0%		Prevalence Index worksheet: Total % Cover of: Multiply by:
8	0 .	= Total Cover		
Sapling-Sapling/Shrub Stratum (Plot size:)			OBL species 30 $x \ 1 =$ 30 FACW species 130 $x \ 2 =$ 260
1	0	0.0%		
2	0	0.0%		FAC species $0 \times 3 = 0$
3	_	0.0%		FACU species $0 \times 4 = 0$
4	0	0.0%		UPL species $0 \times 5 = 0$
5	0	0.0%		Column Totals: <u>160</u> (A) <u>290</u> (B)
6	0	0.0%		Prevalence Index = $B/A = 1.813$
7	0	0.0%		Hydrophytic Vegetation Indicators:
8	0	0.0%		Rapid Test for Hydrophytic Vegetation
9	0	0.0%		✓ Dominance Test is > 50%
10	0	0.0%		\checkmark Prevalence Index is $\leq 3.0^{1}$
Shrub Stratum (Plot size:)	:	= Total Cover		Morphological Adaptations ¹ (Provide supporting
1	0	0.0%		data in Remarks or on a separate sheet)
2.	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4		0.0%		be present, unless disturbed or problematic.
5		0.0%		Definition of Vegetation Strata:
6		0.0%		Four Vegetation Strata:
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= Total Cover		regardless of height.
1. Scirpus cyperinus	60	✔ 37.5%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Symplocarpus foetidus	30	18.8%	OBL	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Impatiens capensis	50	31.3%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4 Onoclea sensibilis	15	9.4%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft
5. Juncus effusus	5	3.1%	FACW	in height.
6	0	0.0%		Five Vegetation Strata:
7	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	0.0%		diameter at breast height (DBH).
10	0	0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
11		0.0%		than 3 in. (7.6 cm) DBH.
12		0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)	160 :	= Total Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,
1	0	0.0%		including herbaceous vines, regardless of size, and woody
2	0	0.0%		species, except woody vines, less than approximately 3 ft (1 m) in height.
3.		0.0%		Woody vines – Consists of all woody vines, regardless of
4	0	0.0%		height.
5	0	0.0%		
6.	0	0.0%		Hydrophytic Vegetation
		= Total Cove	r	Present? Yes No
Pomarka (Includo photo numbera horo er en a conarato cho				l

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

Profile Descri	iption: (De		the depth	needed to c				onfirm the a	absence of indicators.)			
Depth (inch co)	Calar	Matrix	%	Calar		dox Featu	res Tvpe	Loc ²	Tautum	Remarks			
(inches) 0-6		(moist) 4/2	85	<u> </u>	4/4		C C	LOC M	Texture Silty Clay Loam	Remarks			
										gley 1 5/n			
6-12	N	5/1	85	5YR	4/4	15	C	M	Clay				
					-								
							-		-				
8	-				-			. <u></u>					
								·					
							_						
¹ Type: C=Conc	centration	D=Depletic	n RM=Red	uced Matrix	CS=Cover	ed or Coate	d Sand Gr	ains ² loca	ition: PL=Pore Lining. M	=Matrix			
Hydric Soil I													
Histosol (A				Dark	surface ((57)				blematic Hydric Soils ³ :			
	bedon (A2)					w Surface ((S8) (MI RA	147,148)	2 cm Muck (A	10) (MLRA 147)			
Black Histi						ace (S9) (N			Coast Prairie F				
	Sulfide (A4	.)				Matrix (F2)			(MLRA 147,14				
Stratified I	Layers (A5)				eted Matri				(MLRA 136, 1	dplain Soils (F19) 47)			
2 cm Muck	k (A10) (LR	R N)				Irface (F6)			Very Shallow Dark Surface (TF12)				
Depleted I	Below Dark	Surface (A	(11)	Depleted Dark Surface (F7)					Other (Explain in Remarks)				
Thick Dark	k Surface (A	A12)		Redo	ox Depress	sions (F8)							
	ck Mineral ((S1) (LRR M	Ν,			se Masses (F12) (LRR	N,					
MLRA 147					A 136)	- (512) (14	DA 10/ 1	22)					
	yed Matrix	(S4)				e (F13) (ML			³ Indicators	of hydrophytic vegetation a	and		
Sandy Rec				_		dplain Soils			wetland hydrology must be present,				
Stripped N	latrix (S6)			Red	Parent Ma	iterial (F21)	(MLRA 12	27, 147)	unles	s disturbed or problematic.			
Restrictive La	ayer (if ob	served):											
Туре:													
Depth (inch	nes):								Hydric Soil Present	? Yes 🖲 No 🔾			
Remarks:													

Wetland 17

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County: Stark County	Sampling Date: 28-Apr-17			
Applicant/Owner: AEP	State: OH	Sampling Point: W-PJR-042817-03			
Investigator(s): PJR, LCB	Section, Township, Range: S	15 T 17N R 7W			
Landform (hillslope, terrace, etc.): Strip Mine	Local relief (concave, convex, none): <u>concave</u> Slope: <u>0.0%</u> / <u>0.0</u> °			
Subregion (LRR or MLRA):	40.684488 Long.:	-81.241007 Datum: NAD83			
Soil Map Unit Name: Fpn4D1		NWI classification: N/A			
	ly disturbed? Are "Normal Cir	olain in Remarks.) cumstances" present? Yes No ain any answers in Remarks.)			

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	
Remarks:				
PEM wetland				

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)			✓ Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery (I	B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9))			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	\sim	\sim		
Surface Water Present?	Yes 🖲	No 🔿	Depth (inches): 24	
Water Table Present?	$_{ m Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe)	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches):	ydrology Present? Yes $ullet$ No $igloo$
(includes capillary fringe)			Depth (inches): ring well, aerial photos, previous inspections), if av	
(includes capillary fringe)			Depth (inches):	
(includes capillary fringe)			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
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(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant — Species? -		Sampling Point: <u>W-PJR-042817-03</u>
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3		0.0%		Species Across All Strata: (B)
4	-	0.0%		Dereent of dominant Species
5		0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6		0.0%		
7		0.0%		Prevalence Index worksheet:
8	0	0.0%		Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size:) :	= Total Cover		OBL species $0 \times 1 = 0$
1		0.0%		FACW species 45 x 2 = 90
2.	_	0.0%		FAC species $0 \times 3 = 0$
3		0.0%		FACU species $0 \times 4 = 0$
4.		0.0%		UPL species x 5 =
5.	_	0.0%		Column Totals:45(A)90(B)
6	-	0.0%		Prevalence Index = B/A = 2.000
7		0.0%		· · · · · · · · · · · · · · · · · · ·
8.	_	0.0%		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
9		0.0%		
10		0.0%		✓ Dominance Test is > 50%
		= Total Cover		V Prevalence Index is $\leq 3.0^{-1}$
<u>Shrub Stratum</u> (Plot size:) 1	0	0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4		0.0%		be present, unless disturbed or problematic.
5		0.0%		Definition of Vegetation Strata:
6		0.0%		Four Vegetation Strata:
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= Total Cover		regardless of height.
<u> </u>	45	✓ 100.0%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding
1. Leersia virginica 2.		0.0%		vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants,
3	0	0.0%		regardless of size, and all other plants less than 3.28 ft tall.
4	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
5	0	0.0%		in height.
6		0.0%		
7		0.0%		Five Vegetation Strata:
8.	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	0.0%		diameter at breast height (DBH).
10	0	0.0%		Sapling stratum – Consists of woody plants, excluding woody
11		0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
12		0.0%		Shrub stratum – Consists of woody plants, excluding woody
		= Total Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)		_		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1	0	0.0%		species, except woody vines, less than approximately 3 ft (1
2		0.0%		m) in height.
3	-	0.0%		Woody vines – Consists of all woody vines, regardless of height.
4		0.0%		
5	0	0.0%		Hydrophytic
6	0	0.0%		Vegetation Present? Yes • No ·
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate she	et.)			

						nfirm the a	bsence of indicators.)	
Depth (inches)	Matr Color (moist		Re Color (moist)	dox Featu %	Tvpe ¹	Loc ²	Texture	Dom	narks
0-6	10YR 4/2	90	7.5YR 5/6	10	C	 M	Clay	Refusal at	
0-0	101R 4/2	90	7.51K 5/0			IVI	Clay		
							-		
								1	
¹ Type: C=Cond	centration. D=Dep	letion. RM=Redu	ced Matrix, CS=Cover	ed or Coate	d Sand Gra	ins ² Loca	tion: PL=Pore Lining. M	=Matrix	
Hydric Soil I							Indicators for Pro	oblematic Hydri	c Soils ³ :
Histosol (/			Dark Surface (2 cm Muck (A	10) (MLRA 147)	
	pedon (A2)		Polyvalue Belo				_		
Black Hist	ic (A3)		Thin Dark Surf	ace (S9) (N	ILRA 147, 1	48)	Coast Prairie F (MLRA 147,14	(edox (A16) 8)	
Hydrogen	Sulfide (A4)		Loamy Gleyed	Matrix (F2)				odplain Soils (F19)	
Stratified	Layers (A5)		Depleted Matri	ix (F3)			(MLRA 136, 1	47)	
2 cm Mucl	k (A10) (LRR N)		Redox Dark Su	urface (F6)			Very Shallow	Dark Surface (TF1	2)
	Below Dark Surface	e (A11)	Depleted Dark	Surface (FI	7)		Other (Explain		_)
	k Surface (A12)	0 (111)	Redox Depress					i in Remarks)	
	ck Mineral (S1) (LF		Iron-Mangane		F12) (LRR I	٧.			
MLRA 147	7, 148)	XK N,	MLRA 136)						
Sandy Gle	yed Matrix (S4)		Umbric Surfac	e (F13) (ML	.RA 136, 12	2)			
Sandy Red			Piedmont Floo	dplain Soils	(F19) (MLF	RA 148)	³ Indicators	of hydrophytic ve	egetation and
	Matrix (S6)		Red Parent Ma					hydrology must b s disturbed or pro	
						, 147)	unics		biematic.
Restrictive La	ayer (if observed	I):							
Type:									
Depth (incl	nes):						Hydric Soil Present	?Yes 🖲	No 🔿
Remarks:									
Remarks.									
I									
I									
I									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County:	Stark County	Sampli	ng Date: 28-Apr-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: w-bcr-042817-02
Investigator(s): BCR	Section, Tow	nship, Range: S	15 T <u>17N</u>	R 7W
Landform (hillslope, terrace, etc.): Depression	Local relief (co	ncave, convex, none	e): concave	Slope: 0.0% / 0.0 °
Subregion (LRR or MLRA): LRR N Lat.:	40.685911	Long.:	-81.242755	Datum: NAD83
Soil Map Unit Name: Sb			NWI classification:	R5UBH
	ear? Yes • Iy disturbed?	Are "Normal Cir	plain in Remarks.) cumstances" present? lain any answers in Re	

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM extending from pond edge.				

Wetland Hydrology Indicat	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9))			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	\sim	\sim		
Surface Water Present?	$Yes \bigcirc$	No 🖲	Depth (inches):	
Water Table Present?	$_{ m Yes}$ \bigcirc	No 🖲	Depth (inches):	rdrology Present? Yes 🖲 No 🔿
Saturation Present? (includes capillary fringe)	Yes 🖲	$_{\rm No}$ \bigcirc	Depth (inches):0	ydrology Present? Yes 🖲 No 🔾
Describe Recorded Data (st	ream gaug	je, monito	ring well, aerial photos, previous inspections), if av	vailable:
Remarks:				

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			ominant ecies? -		Sampling Point: <u>w-bcr-042817-02</u>
	Absolute % Cover	Re	el.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)	-		over	Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC: (A)
2			0.0%		Total Number of Dominant
3			0.0%		Species Across All Strata: (B)
4			0.0%		Percent of dominant Species
5			0.0%		That Are OBL, FACW, or FAC: 100.0% (A/B)
6 7		\square	0.0%		Prevalence Index worksheet:
	0		0.0%		Total % Cover of: Multiply by:
8	- <u></u> -	 = То	otal Cover		OBL species 0 x 1 = 0
Sapling-Sapling/Shrub Stratum (Plot size:)				FACW species $90 \times 2 = 180$
1	0		0.0%		FAC species $75 \times 3 = 225$
2	0		0.0%		
3	0		0.0%		FACU species $0 \times 4 = 0$
4	0		0.0%		UPL species $\underbrace{0}_{x 5} = \underbrace{0}_{(0)}$
5	0		0.0%		Column Totals: <u>165</u> (A) <u>405</u> (B)
6	0		0.0%		Prevalence Index = B/A = 2.455
7	0	Ц.	0.0%		Hydrophytic Vegetation Indicators:
8	0	<u> </u>	0.0%		Rapid Test for Hydrophytic Vegetation
9	0	<u> </u>	0.0%		✓ Dominance Test is > 50%
10		Ш,	0.0%		✓ Prevalence Index is ≤3.0 1
Shrub Stratum (Plot size:)	:	= То	otal Cover		Morphological Adaptations ¹ (Provide supporting
1	0		0.0%		data in Remarks or on a separate sheet)
2	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3			0.0%		¹ Indicators of hydric soil and wetland hydrology must
4	0		0.0%		be present, unless disturbed or problematic.
5	0		0.0%		Definition of Vegetation Strata:
6	0		0.0%		Four Vegetation Strata:
7	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	:	= То	tal Cover		regardless of height.
1. Juncus effusus	70		42.4%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Carex sp.	50		30.3%	FAC	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Poa palustris	20		12.1%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4. Solidago sp.	25		15.2%	FAC	Woody vines – Consists of all woody vines greater than 3.28 ft in height.
5	0		0.0%		in neight.
6	0		0.0%		Five Vegetation Strata:
7	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0	\square	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0		0.0%		diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody
10	0		0.0%		vines, approximately 20 ft (6 m) or more in height and less
11	0		0.0%		than 3 in. (7.6 cm) DBH.
12	0	Ш,	0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)	165 :	= То	otal Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,
1	0		0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1
2	0		0.0%		m) in height.
3.	0		0.0%		Woody vines – Consists of all woody vines, regardless of
4			0.0%		height.
5	0		0.0%		Hydrophytic
6	0		0.0%		Vegetation
	0	= T(otal Cove	r	Present? Yes Vo V
Remarks: (Include photo numbers here or on a separate shee	et)				

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

Wetland	19
Woticitia	10

Profile Descr	iption: (Descr	ribe to	the depth	needed to d	ocumen	t the indic	ator or co	nfirm the a	absence of indicators.)				
Depth		atrix				dox Featu							
(inches)	Color (mo			Color (Tvpe ¹	_Loc ²	Texture	Ren	narks		
0-8	10YR 2	/1	75	2.5YR	3/6	25	C	M	Silty Clay Loam	-			
8-12	10YR 5	/1	75	10YR	6/8	25	C	M	Clay Loam				
									-				
					-								
										-			
¹ Type: C=Con	centration. D=D	Depletio	n. RM=Red	uced Matrix, (CS=Cover	ed or Coate	ed Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=N	latrix			
Hydric Soil I	indicators:	-							Indicators for Prob	omatic Hudri	e Saile ³ i		
Histosol (A	A1)			Dark	Surface ((S7)			_	-			
	pedon (A2)					w Surface ((S8) (MLRA	147,148)	2 cm Muck (A10)				
Black Hist						face (S9) (N			Coast Prairie Rec (MLRA 147,148)	lox (A16)			
	Sulfide (A4)					Matrix (F2)							
	Layers (A5)				eted Matr				Piedmont Floodp (MLRA 136, 147)				
2 cm Muc	k (A10) (LRR N))				urface (F6)			Very Shallow Da		2)		
	Below Dark Sur		11)	Deple	eted Dark	Surface (F	7)		Other (Explain in		_)		
	k Surface (A12)		,	Redo	x Depres	sions (F8)				Remarks)			
	ick Mineral (S1)					se Masses ((F12) (LRR	N,					
MLRA 147	7, 148)	,		MLRA 136)									
Sandy Gle	eyed Matrix (S4))		Umb	ric Surfac	e (F13) (ML	_RA 136, 12	22)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,				
Sandy Ree	dox (S5)			Piedr	mont Floo	dplain Soils	s (F19) (ML	RA 148)					
Stripped N	Matrix (S6)			Red	Parent Ma	aterial (F21)) (MLRA 12	7, 147)	unless disturbed or problematic.				
Postrictivo I	ayer (if observ	(bov											
Type:		veu).											
Depth (incl	has).								Hydric Soil Present?	Yes 🖲	No 🔿		
	nes).												
Remarks:													

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County:	Stark County	Sampli	ng Date: 28-Apr-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: W-PJR-042817-02
Investigator(s): PJR, LCB	Section, Town	ship, Range: S	5 T <u>17N</u>	R 7W
Landform (hillslope, terrace, etc.): Depression	Local relief (cor	cave, convex, none	concave	Slope: 0.0% / 0.0 °
Subregion (LRR or MLRA):	.at.: 40.687178	Long.:	-81.243641	Datum: NAD83
Soil Map Unit Name: WrB			NWI classification:	N/A
	of year? Yes cantly disturbed? ally problematic?	Are "Normal Circ	lain in Remarks.) sumstances" present? ain any answers in Re	

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes Yes	No	Is the Sampled Area within a Wetland?	Yes \odot No \bigcirc
Wetland Hydrology Present?	105 0	10 0		
Remarks:				
PFO wetland				

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one	e required; o	Surface Soil Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)		
✓ High Water Table (A2)		Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)		
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)		
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)		
Iron Deposits (B5)			Geomorphic Position (D2)		
Inundation Visible on Aerial Imagery	(B7)		Shallow Aquitard (D3)		
✓ Water-Stained Leaves (B9)			Microtopographic Relief (D4)		
Aquatic Fauna (B13)			FAC-neutral Test (D5)		
Field Observations:	0				
Surface Water Present? Yes 🔍	No 🔿	Depth (inches): 1			
Water Table Present? Yes •	No \bigcirc	Depth (inches):4			
Saturation Present? (includes capillary fringe) Yes •	No \bigcirc	Depth (inches):0	ydrology Present? Yes 💿 No 🔾		
(includes capillary fringe) Yes		Depth (inches): Wetland H ring well, aerial photos, previous inspections), if a	, ,,		
(includes capillary fringe) Yes		Depth (inches): 0	, ,,		
(includes capillary fringe) Yes		Depth (inches): 0	, ,,		
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	, ,,		
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	, ,,		
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	, ,,		
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	, ,,		
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	, ,,		
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	, ,,		
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0			
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0			
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0			
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0			
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0			
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

	Dominant Species?			Sampling Point: <u>W-PJR-042817-02</u>		
	Absolute % Cover	Rel.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)			Status	Number of Dominant Species		
1. Platanus occidentalis		✓ 100.0%	FACW	That are OBL, FACW, or FAC: (A)		
2		0.0%		Total Number of Dominant		
3		0.0%		Species Across All Strata: <u>2</u> (B)		
4		0.0%		Percent of dominant Species		
5	-	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
6		0.0%				
7		0.0%		Prevalence Index worksheet:		
8	0	0.0%		Total % Cover of: Multiply by:		
Sapling-Sapling/Shrub Stratum (Plot size:)	= Total Cover	•	OBL species x 1 =		
1.	-	0.0%		FACW species <u>115</u> x 2 = <u>230</u>		
2.		0.0%		FAC species $0 \times 3 = 0$		
3		0.0%		FACU species $0 \times 4 = 0$		
4.		0.0%		UPL species $0 \times 5 = 0$		
5	_	0.0%		Column Totals: <u>115</u> (A) <u>230</u> (B)		
6		0.0%		Prevalence Index = B/A = 2.000		
7		0.0%				
8.		0.0%		Hydrophytic Vegetation Indicators:		
9		0.0%		✓ Rapid Test for Hydrophytic Vegetation		
10		0.0%		✓ Dominance Test is > 50%		
		= Total Cover		✓ Prevalence Index is \leq 3.0 ¹		
<u>Shrub Stratum</u> (Plot size:) 1	0	0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
2	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must		
4		0.0%		be present, unless disturbed or problematic.		
5		0.0%		Definition of Vegetation Strata:		
6		0.0%		Four Vegetation Strata:		
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.		
Herb Stratum (Plot size:)	0	= Total Cover		(7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
4	5	7.7%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding		
Juncus effusus Phalaris arundinacea	= <u> </u>	7.7%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants,		
3. Leersla virginica		▼ 84.6%	FACW	regardless of size, and all other plants less than 3.28 ft tall.		
4.	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft		
5	0	0.0%		in height.		
6.	0	0.0%				
	0	0.0%		Five Vegetation Strata:		
7	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in		
9	0	0.0%		diameter at breast height (DBH).		
		0.0%		Sapling stratum – Consists of woody plants, excluding woody		
10		0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.		
11		0.0%		Shrub stratum – Consists of woody plants, excluding woody		
		= Total Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height.		
(Plot size:)				Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody		
1	0	0.0%		species, except woody vines, less than approximately 3 ft (1		
2		0.0%		m) in height.		
3	0	0.0%		Woody vines – Consists of all woody vines, regardless of height.		
4	0	0.0%				
5	0	0.0%		Hydrophytic		
6	0	0.0%		Vegetation		
	0	= Total Cove	r	Present? Yes Vo U		
Remarks: (Include photo numbers here or on a separate shee	et.)					

Profile Descr	ription: (Describe to	the depth n	eeded to documen	t the indi	cator or co	nfirm the a	bsence of indicators.)			
Depth	Matrix			dox Feat						
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture	Remarks		
0-16	10YR 4/2		10YR 5/6	15	C		Clay Loam			
							-	ç		
								<u>.</u>		
¹ Type: C=Con	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Cover	ed or Coat	ed Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=M	atrix		
Hydric Soil 1	Indicators:						Indicators for Brobl	ematic Hydric Soils ³ :		
Histosol (Dark Surface ((S7)			_	-		
Histic Epi	pedon (A2)		Polyvalue Belo	w Surface	(S8) (MLRA	147,148)	2 cm Muck (A10)	(MLRA 147)		
Black Hist			Thin Dark Surf				Coast Prairie Red (MLRA 147,148)	ox (A16)		
Hydrogen	n Sulfide (A4)		Loamy Gleyed							
Stratified	Layers (A5)		Depleted Matri		,		Piedmont Floodp (MLRA 136, 147)			
	k (A10) (LRR N)		Redox Dark Su				Very Shallow Dar			
_	Below Dark Surface (A	11)	Depleted Dark							
	k Surface (A12)	,	Redox Depress		,		Other (Explain in	Remarks)		
	uck Mineral (S1) (LRR N	J	Iron-Mangane	se Masses	(F12) (LRR	N,				
MLRA 147		•,	MLRA 136)							
Sandy Gle	eyed Matrix (S4)		Umbric Surfac	e (F13) (M	LRA 136, 12	22)	2			
Sandy Re	dox (S5)		Piedmont Floo	dplain Soil	s (F19) (MLI	RA 148)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
Stripped I	Matrix (S6)		Red Parent Ma	aterial (F21) (MLRA 12	7, 147)	unless disturbed or problematic.			
	ayer (if observed):									
Туре:							Hydric Soil Present?	Yes 🔍 No 🔾		
Depth (inc	hes):						Hydric Son Fresent:			
Remarks:										

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: AEP Carrollton-Sunnyside T-Line	City/County: Stark County	Samplin	ng Date: 28-Apr-17
Applicant/Owner: AEP	State: OH	Sampling Poin	nt: w-bcr-042817-01
Investigator(s): BCR	Section, Township, Range: S	5 T <u>17N</u>	R 7W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, none	concave	Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.689381 Long.:	-81.246485	Datum: NAD83
Soil Map Unit Name: Wd		NWI classification:	R5UBH
Are climatic/hydrologic conditions on the site typical for this time of year Are Vegetation, Soil, or Hydrology significant		lain in Remarks.) umstances" present?	Yes 🔍 No 🔾
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, expl	ain any answers in Re	marks.)

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

Hydrophytic Vegetation Present?	Yes 🖲	No		
Hydric Soil Present?	Yes 🖲	No 🔾	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No 🔾	within a Wetland?	
Remarks:				
PEM within stream valley partially	within trans	smission line ROW.		

Wetland Hydrology Indicator	rs:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimur	m of one	Surface Soil Cracks (B6)				
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)		
 High Water Table (A2) 			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)		
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)		
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)		
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)		
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)		
Iron Deposits (B5)				Geomorphic Position (D2)		
Inundation Visible on Aerial	Imagery (B7)		Shallow Aquitard (D3)		
✓ Water-Stained Leaves (B9)				Microtopographic Relief (D4)		
Aquatic Fauna (B13)				✓ FAC-neutral Test (D5)		
Field Observations:	0	0				
Surface Water Present?	Yes 🖲	No 🔿	Depth (inches): 2			
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches): 5	drology Present? Yes 💿 No 🔿		
Saturation Present? (includes capillary fringe)	Yes 🖲	$_{\rm No}$ \bigcirc	Depth (inches):0	drology Present? Yes $ullet$ No $igodoldsymbol{ imes}$		
	eam gauo	ge, monito	ring well, aerial photos, previous inspections), if ava	ailable:		
Remarks:						

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Species? Rel.Strat. Indicator Status Dominance Test worksheet: 1. 0 0.0% Number of Dominant Species That are OBL, FACW, or FAC: 2. 0 0.0%	(A)
1. 0 0.0% Number of Dominant Species That are OBL, FACW, or FAC: 6	(A)
	(A)
Total Number of Dominant	
Species Across All Strata.	(B)
T Dercent of dominant Species	
5 That Are OBL, FACW, or FAC:00.0%	(A/B)
6. 0 0.0% 7. 0 0.0% Prevalence Index worksheet: 0	
Sapling-Sapling/Shrub Stratum (Plot size:) = 1 total cover (Plot size:	
1 0 0.0%	
2 0 0.0%	
3 0 FACU species $x = 0$	
4 0 0.0% UPL species 0 x 5 = 0	
5. 0 0.0% Column Totals: 155 (A) 265	(B)
6 0 0.0% Prevalence Index = B/A = 1.710	
7 0 0.0% Hydrophytic Vegetation Indicators:	
8 0 0.0% V Rapid Test for Hydrophytic Vegetation	
9 0 □ 0.0% Dominance Test is > 50%	
10 0 \Box 0.0% Prevalence Index is \leq 3.0 ¹	
Shrub Stratum (Plot size:) = Total Cover More Adaptations 1 (Provide suppor	ina
1. Quercus bicolor 5 Image: Status of the status of t	ing
2 0 0.0% Problematic Hydrophytic Vegetation ¹ (Explain	n)
3. 0 0.0% 1 Indicators of hydric soil and wetland hydrology	nust
4 0 0.0% be present, unless disturbed or problematic.	
5. 0 0.0% Definition of Vegetation Strata:	
6 0 □ 0.0% Four Vegetation Strata:	
T I ree stratum – Consists of woody plants, excluding vir	es, 3 in.
Image: Non-Stratum (Plot size:) (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Herb Stratum (Plot size:) 5 = Total Cover (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
Sapling/shrub stratum – Consists of woody plants, exc	
2. Phalaris arundinacea 20 Image: Second structure FACW Herb stratum – Consists of all herbaceous (non-woody regardless of size, and all other plants less than 3.28 ft 3. Impatiens capensis 40 Image: Second structure FACW Herb stratum – Consists of all herbaceous (non-woody regardless of size, and all other plants less than 3.28 ft	
4. Typha angustifolia 15 10.0% OBL Woody vines – Consists of all woody vines greater that	3.28 ft
4. In the second se	
7 Onoclea sensibilis	
8 Tree - Woody plants, excluding woody vines, approxim ft (6 m) or more in height and 3 in. (7.6 cm) or larger in	ately 20
9 0 0 0 diameter at breast height (DBH).	
0 0.0% Sapling stratum – Consists of woody plants, excluding vines, approximately 20 ft (6 m) or more in height and I	
$\begin{array}{c} \hline \\ 11. \\ \hline \\ 0 \\ \hline \\ 0.0\% \\ \hline 0.0\% \\ \hline 0.0\% \\ 0.0\% \\ \hline 0.0\% \\ 0.0\% \\ \hline 0.0\% \\ 0.0\% $	255
1_{2} Shrub stratum – Consists of woody plants, excluding w	voody
Vines, approximately 3 to 20 ft (1 to 6 m) in neight.	
Woody Vine Stratum (Plot size:) 150 For a f	
1 species, except woody vines, less than approximately 3	
2 0 \Box 0.0% m) in height.	~f
3 0 U 0.0% Woody vines – Consists of all woody vines, regardless height.	or
5 0 U 0.0% Hydrophytic	
6 0 □ 0.0% Vegetation Present? Yes ● No ○	
= Total Cover Present: 100 - 1	

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

Profile Descri		the depth r				nfirm the a	absence of indicators.)			
Depth (inchos)			Loc ²	Texture	Domeska					
(inches) 0-12	N 3/1	80	2.5YR 3/6	20	C	 M	Loamy Sand	Remarks		
¹ Type: C=Cond	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=Ma	atrix		
Hydric Soil I							Indicators for Proble			
Histosol (A			Dark Surface (S7)			_	-		
Histic Epip	edon (A2)		Polyvalue Belo	w Surface	(S8) (MLRA	147,148)	2 cm Muck (A10)			
Black Hist	ic (A3)		Thin Dark Surf	ace (S9) (N	/ILRA 147, 1	48)	Coast Prairie Redo (MLRA 147,148)	ox (A16)		
Hydrogen	Sulfide (A4)		Loamy Gleyed	Matrix (F2))		Piedmont Floodpla	ain Soils (E19)		
Stratified I	Layers (A5)		Depleted Matri	x (F3)			(MLRA 136, 147)			
2 cm Mucł	k (A10) (LRR N)		Redox Dark Su	rface (F6)			Very Shallow Dark	Surface (TF12)		
Depleted I	Below Dark Surface (A	.11)	Depleted Dark		7)		Other (Explain in	Remarks)		
Thick Dark	k Surface (A12)		Redox Depress							
Sandy Mu MLRA 147	ck Mineral (S1) (LRR N 7, 148)	۱,	Iron-Manganes MLRA 136)	se Masses ((F12) (LRR	Ν,				
Sandy Gle	yed Matrix (S4)		Umbric Surface	e (F13) (MI	_RA 136, 12	2)	3			
Sandy Red	dox (S5)		Piedmont Floo	dplain Soils	5 (F19) (MLF	RA 148)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
Stripped N	Aatrix (S6)		Red Parent Ma	iterial (F21)) (MLRA 12	7, 147)				
Restrictive La	ayer (if observed):									
Type:	.,									
•••	nes):						Hydric Soil Present?	Yes $ullet$ No $ightarrow$		
Remarks:	· -									
Romanto.										

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County: Stark Cour	ity	Samplin	g Date: 28-May-17
Applicant/Owner: AEP	State	HO H	Sampling Poin	t: W-PJR-042817-01
Investigator(s): PJR, LCB	Section, Township, Ran	ge: S 15	T _17N	R _7W
Landform (hillslope, terrace, etc.): Swale	Local relief (concave, con	vex, none):	concave	Slope: <u>2.0%</u> / <u>1.1</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.690811	Long.: _8	1.248459	Datum: NAD83
Soil Map Unit Name: PIB		N	WI classification:	N/A
Are climatic/hydrologic conditions on the site typical for this time of y	ear? Yes 🖲 No 🔾 (If no, explai	n in Remarks.)	
Are Vegetation, Soil, or Hydrology significant	tly disturbed? Are "N	ormal Circum	stances" present?	Yes 🔍 No 🔾
Are Vegetation, Soil, or Hydrology naturally	problematic? (If nee	ded, explain	any answers in Rer	marks.)

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

Hydrophytic Vegetation Present?	Yes 🖲	No O				
Hydric Soil Present?	Yes 🖲	No	Is the Sampled Area	Yes 🖲 No 🔾		
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?			
Remarks:						
PEM/PSS wetland						

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery (I	B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9))			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	\sim	\sim		
Surface Water Present?	Yes 🖲	No \bigcirc	Depth (inches): 2	
Water Table Present?	$_{ m Yes}$ \bigcirc	No 💿	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes O	No 🖲	Depth (inches): Wetland H	ydrology Present? Yes 🖲 No 🔾
(includes capillary fringe)	$_{\rm Yes}$ \bigcirc	No 🖲	Wetland H	
(includes capillary fringe)	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe)	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
(includes capillary fringe) Describe Recorded Data (str	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			minant ecies? –		Sampling Point: <u>W-PJR-042817-01</u>
	Absolute	Rel	.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Cov		Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC: (A)
2			0.0%		Total Number of Dominant
3	_		0.0%		Species Across All Strata: (B)
4	_	<u> </u>	0.0%		Percent of dominant Species
5			0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6			0.0%		
7			0.0%		Prevalence Index worksheet:
8	0		0.0%		Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size:) :	= 100	al Cover		OBL species $10 \times 1 = 10$
1. Salix nigra		✓	100.0%	OBL	FACW species 106 x 2 = 212
2			0.0%		FAC species $0 \times 3 = 0$
3	0		0.0%		FACU species $0 \times 4 = 0$
4	0		0.0%		UPL species $0 \times 5 = 0$
5	0		0.0%		Column Totals: <u>116</u> (A) <u>222</u> (B)
6	0		0.0%		Prevalence Index = B/A = 1.914
7	0		0.0%		Hydrophytic Vegetation Indicators:
8	_		0.0%		Rapid Test for Hydrophytic Vegetation
9	0		0.0%		✓ Dominance Test is > 50%
10	0		0.0%		V Prevalence Index is \leq 3.0 1
Shrub Stratum (Plot size:)	10:	= Tot	al Cover		Morphological Adaptations ¹ (Provide supporting
1			0.0%		data in Remarks or on a separate sheet)
2			0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3			0.0%		¹ Indicators of hydric soil and wetland hydrology must
4			0.0%		be present, unless disturbed or problematic.
5			0.0%		Definition of Vegetation Strata:
6			0.0%		Four Vegetation Strata:
7.	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= Tot	al Cover		regardless of height.
	75	\checkmark	70.8%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding
Phragmites australis Phalaris arundinacea	26		24.5%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Impatiens capensis			4.7%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4			0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
5			0.0%		in height.
6.			0.0%		Five Verstetien Churcher
7			0.0%		Five Vegetation Strata:
8.			0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9			0.0%		diameter at breast height (DBH).
10.			0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
11			0.0%		than 3 in. (7.6 cm) DBH.
12.	0		0.0%		Shrub stratum – Consists of woody plants, excluding woody
Woody Vine Stratum (Plot size:)	106	= Tot	al Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants,
1 /	0		0.0%		including herbaceous vines, regardless of size, and woody
2	0		0.0%		species, except woody vines, less than approximately 3 ft (1 m) in height.
3		\square	0.0%		Woody vines – Consists of all woody vines, regardless of
4			0.0%		height.
5	0	\square	0.0%		
6	0		0.0%		Hydrophytic Vegetation
0		 = Tot	tal Cover		Present? Yes No
Remarks: (Include photo numbers here or on a separate shee					

Profile Descr	ription: (Describe to	the depth	needed to document	t the indic	cator or co	nfirm the a	bsence of indicators.)	
Depth	Matrix			dox Featı				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks
0-16	10YR 4/2	90	7.5YR 4/6	10	C	M	Sandy Loam	
		-		-	-	-		
	· · · · ·							
					_			
¹ Type: C=Con	centration. D=Depletio	on. RM=Redu	iced Matrix, CS=Cover	ed or Coat	ed Sand Gra	ains ² Locat	tion: PL=Pore Lining. M=Ma	atrix
Hydric Soil	Indicators:						Indicators for Proble	matic Hydric Soils ³
Histosol (A1)		Dark Surface (S7)			2 cm Muck (A10)	-
Histic Epi	pedon (A2)		Polyvalue Belo	w Surface	(S8) (MLRA	147,148)		
Black Hist	tic (A3)		Thin Dark Surf	ace (S9) (N	MLRA 147, 1	148)	Coast Prairie Redo (MLRA 147,148)	ox (A16)
Hydroger	n Sulfide (A4)		Loamy Gleyed	Matrix (F2)		Piedmont Floodpla	ain Soils (F19)
Stratified	Layers (A5)		Depleted Matri	x (F3)			(MLRA 136, 147)	
🗌 2 cm Muc	k (A10) (LRR N)		Redox Dark Su	irface (F6)			Very Shallow Dark	surface (TF12)
Depleted	Below Dark Surface (A	.11)	Depleted Dark	Surface (F	7)		Other (Explain in	Remarks)
Thick Dar	k Surface (A12)		Redox Depress	sions (F8)				,
Sandy Mu MLRA 14	uck Mineral (S1) (LRR N 7, 148)	١,	Iron-Manganes MLRA 136)	se Masses	(F12) (LRR	N,		
Sandy Gle	eyed Matrix (S4)		Umbric Surface	e (F13) (M	LRA 136, 12	22)	2	
Sandy Re	dox (S5)		Piedmont Floo	dplain Soils	s (F19) (ML	RA 148)	³ Indicators of I wetland byd	hydrophytic vegetation and rology must be present,
Stripped I	Matrix (S6)		Red Parent Ma	nterial (F21) (MLRA 12	7, 147)		sturbed or problematic.
Destation 1								
	ayer (if observed):							
Type: Depth (inc	haa).						Hydric Soil Present?	Yes 🔍 No 🔾
	nes):						-	
Remarks:								

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Carrollton-Sunnyside	City/County:	Stark	Samplin	g Date: 01-May-17
Applicant/Owner: AEP		State: OH	Sampling Point:	w-jbl-050117-01
Investigator(s): JBL, JTT	Section, 1	Township, Range: S. 15	T. 17N	R. 7W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, none):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR N Lat	: 40.69286904	9 Long.: -8'	.250586258	Datum: NAD 83
Soil Map Unit Name: Bogart loam, 0 to 2 percent slopes			WI classification:	N/A
	antly disturbed? y problematic? J sampling p		any answers in Rei	,
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area in a Wetland? Yes	● _{No} ○	
Remarks: (Explain alternative procedures here or in a separate re	port.)			

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required;	Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (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 Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living 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 Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches): 2	
Water Table Present? Yes O No 🖲	Depth (inches):	vdrology Present? Yes 🖲 No 🔿
Saturation Present? Yes No •	Depth (inches):	ydrology Present? Yes 🔍 No 🔾
Describe Recorded Data (stream gauge, monito	pring well, aerial photos, previous inspections), if av	vailable:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plan		Sampling Point: w-jbl-050117-01			
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
_Tree Stratum(Plot size:)	% Cover	Species?	Status	Number of Dominant Species	
1	0			That are OBL, FACW, or FAC:5_ (A)	
2	0			Takel Musek en of Dominant	
3	0			Total Number of Dominant Species Across All Strata: 5 (B)	
4					
5				Percent of dominant Species	
6	0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)	
7	0			Prevalence Index worksheet:	
	0 =	Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size:)				OBL speci es 40 x 1 = 40	
1. Acer saccharinum	15	\checkmark	FACW	FACW species65_ x 2 =130	
2. Viburnum dentatum	40	\checkmark	FAC	FAC speciles 55 x 3 = 165	
3. Rhamnus cathartica	15	\checkmark	FAC	·	
4. Salix nigra	5		OBL		
5	0			UPL species $0 \times 5 = 0$	
6	0			Column Totals: <u>170</u> (A) <u>375</u> (B)	
7.				Prevalence Index = $B/A = 2.206$	
	75 =	Total Cover			
Herb Stratum (Plot size:)				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation	
1. Impatiens capensis	40	\checkmark	FACW		
2. Symplocarpus foetidus	20	\checkmark	OBL	✓ Dominance Test is > 50%	
3. Lobelia siphilitica	5		FACW	✓ Prevalence Index is \leq 3.0 ¹	
4. Bidens bipinnata	10		FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. Juncus effusus	5		OBL	 Problematic Hydrophytic Vegetation ¹ (Explain) 	
6. Carex crinita	5		OBL		
7. Typha latifolla	5		OBL	¹ Indicators of hydric soil and wetland hydrology must	
O Bhalada ammdhaasaa		\square	FACW	be present, unless disturbed or problematic.	
9				Definitions of Vegetation Strata:	
9 10					
				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
11	0			at breast height (bbh), regardiess of height.	
12		Tatal Cause		Sapling/shrub - Woody plants less than 3 in. DBH and	
_Woody Vine Stratum (Plot size:)	95 =	Total Cover		greater than 3.28 ft (1m) tall	
	0			Herb - All herbaceous (non-woody) plants, regardless of	
2	0	\Box		size, and woody plants less than 3.28 ft tall.	
3	0			We achieve All was device a greater than 2,00 ft in	
3	0			Woody vine - All woody vines greater than 3.28 ft in height.	
т	0 =	Total Cover			
				Hydrophytic	
				Vegetation	
				Present? Yes • No	
Remarks: (Include photo numbers here or on a separate she	et.)				

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

US Army Corps of Engineers

Sampling Point: w-jbl-050117-01

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth		Matrix			Re	dox Featu	res		_	
(inches)	Color (r	noist)	%	Color (n	10ist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR	4/1	95	7.5YR	4/4				Silty Clay Loam	
4-11	10YR	4/1	75	5YR	4/6	25	С	Μ	Silty Clay Loam	
									·	
		=Depletio	n. RM=Red	uced Matrix, C	S=Cover	ed or Coate	d Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=Ma	trix
Hydric Soil				_					Indicators for Proble	matic Hydric Soils : ³
Histosol (w Surface (58) (LRR F	R,	_	 _RR K, L, MLRA 149B)
Histic Epi	ipedon (A2)				149B)	(00) (1		A 4 40D)	_	(A16) (LRR K, L, R)
Black His	tic (A3)					ace (S9) (L			_	r Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)					Mineral (F1)	LRR K, L)		Dark Surface (S7)	
Stratified	Layers (A5)					Matrix (F2)				rface (S8) (LRR K, L)
Depleted	Below Dark S	urface (A	11)	✓ Deple					Thin Dark Surface (
Thick Dar	rk Surface (A1	2)				irface (F6)				asses (F12) (LRR K, L, R)
Sandy Mu	uck Mineral (S	1)				Surface (F7)			n Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S	54)		Redox	Depress	sions (F8)				(MLRA 144A, 145, 149B)
Sandy Re	edox (S5)								Red Parent Materia	
Stripped	Matrix (S6)								Very Shallow Dark	
	face (S7) (LRR	R, MLRA	149B)						Other (Explain in R	
			n and wetta	nd hydrology r	nust be p	present, uni			ematic.	
Restrictive L	ayer (if obse	erved):								
Туре:										~ • •
Depth (inc	ches):								Hydric Soil Present?	Yes $oldsymbol{igstar}$ No $igcap$
Remarks:										

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Carrollton-Sunnyside	City/County:	Stark	Sampli	ng Date: 02-May-17	
Applicant/Owner: AEP		State: OH	Sampling Point:	w-jbl-050217-04	
Investigator(s): JBL, JTT	Section, T	ownship, Range: S. 10	T. 17N	R. 7W	
Landform (hillslope, terrace, etc.): Floodplain	Local relief (c	oncave, convex, none):	concave	Slope: 0.0 % / 0.0	
Subregion (LRR or MLRA): LRR N Lat.:	40.694371	Long.: -8	1.252967	Datum: NAD 83	
Soil Map Unit Name: Shoals silt loam			WI classification:	PFO1/SS1C	
Summary of Findings - Attach site map showing	problematic? sampling p	(If needed, explain point locations, tra	•	,	
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area n a Wetland? Yes	• No ()		
Remarks: (Explain alternative procedures here or in a separate repo	ort.)				

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required;	Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (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 Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	 Oxidized Rhizospheres along Living 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 Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):4	
Water Table Present? Yes No	Depth (inches):	~ • • •
Saturation Present? (includes capillary fringe) Yes • No	Depth (inches):	ydrology Present? Yes 💿 No 🔾
	pring well, aerial photos, previous inspections), if a	vailable:
Remarks:		

VEGETATION - Use scientific names of plants

vegeration - use scientific names of plar	Sampling Point: w-jbl-050217-04			
	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1		Ц.		That are OBL, FACW, or FAC: (A)
2		Щ.		Total Number of Dominant
3		Π.		Species Across All Strata:3(B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:)	0 =	= Total Cover		Total % Cover of: Multiply by:
	15			OBL species <u>55</u> x 1 = <u>55</u>
1. Sambucus nigra ssp. canadensis			FACW	FACW species67 x 2 =134
2	0			FAC species x 3 =
3	0			FACU species $0 \times 4 = 0$
4				UPL species x 5 =
5				Column Totals: <u>122</u> (A) <u>189</u> (B)
6				$\frac{122}{122}$
7	0			Prevalence Index = $B/A = 1.549$
Herb Stratum (Plot size:)	15 =	= Total Cover		Hydrophytic Vegetation Indicators:
	20			Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea	30		FACW	✓ Dominance Test is > 50%
2. Symplocarpus foetidus	30		OBL	✓ Prevalence Index is \leq 3.0 ¹
3. Carex vulpinoidea			OBL	Morphological Adaptations ¹ (Provide supporting
4. Alisma triviale	3		OBL	data in Remarks or on a separate sheet)
5. Leersla virginica	12		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
6. Carex crinita	12		OBL	1 Tradications of hudeic coll and methods hudeology much
7. Lysimachia nummularia	10		FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9		Ц.		Demittons of Vegetation Strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:)	107 =	= Total Cover		greater than 3.28 ft (1m) tall
	0			Llork All harbossous (non woods) planta regardlass of
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in
4				height.
	0 =	= Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes Volume No
Remarks: (Include photo numbers here or on a separate shee	et.)			

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

US Army Corps of Engineers

Sampling Point: w-jbl-050217-04

Profile Desc	ription: (Describe to	the depth	needed to document	the indicator or	confirm the a	absence of indicators.)	
Depth (inches)	Matrix			dox Features	1	·	
(inches)	Color (moist)	%	Color (moist)	% Туре	¹ Loc ²	Texture	Remarks
0-11	10YR 6/1	85	7.5YR 4/4	15		Sandy Clay Loam	
						,	
				·		,	
						,	
¹ Type: C=Cor	centration. D=Depletio	n. RM=Redu	uced Matrix. CS=Covere	ed or Coated Sand (Grains ² Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil					2000		
Histosol (w Surface (S8) (LRF	סמ	_	ematic Hydric Soils : ³
_	pedon (A2)		MLRA 149B)				(LRR K, L, MLRA 149B)
Black His	•		Thin Dark Surfa	ace (S9) (LRR R, M	LRA 149B)	_	x (A16) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky I	Vineral (F1) LRR K,	L)		or Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed	Matrix (F2)		Dark Surface (S7)	
	Below Dark Surface (A	11)	 Depleted Matri 	x (F3)			urface (S8) (LRR K, L)
	rk Surface (A12)	,	Redox Dark Su	rface (F6)		Thin Dark Surface	
	uck Mineral (S1)		Depleted Dark	Surface (F7)			lasses (F12) (LRR K, L, R)
	eyed Matrix (S4)		Redox Depress	ions (F8)			in Soils (F19) (MLRA 149B)
Sandy G) (MLRA 144A, 145, 149B)
	Matrix (S6)					Red Parent Materia	
	face (S7) (LRR R, MLRA	1/00)				Very Shallow Dark	
						Other (Explain in F	Remarks)
³ Indicators o	f hydrophytic vegetatio	n and wetla	nd hydrology must be p	present, unless distu	urbed or proble	ematic.	
Restrictive L	ayer (if observed):						
Туре:							
Depth (inc	hes):					Hydric Soil Present?	Yes $ullet$ No $igcap$
Remarks:							
Romanio							

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Carrollton-Sunnyside		City/County:	Stark		Samplin	g Date: 02-May-17
Applicant/Owner: AEP			State: OH	Sa	ampling Point:	w-jbl-050217-03
Investigator(s): JBL, JTT		Section, To	ownship, Range: 9	s. 10	T. 17N	R. 7W
Landform (hillslope, terrace, etc.): Swale		Local relief (c	oncave, convex, ne	one): co	oncave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR N	Lat.:	40.695308	Long	.: -81.2	254023	Datum: NAD 83
Soil Map Unit Name: Chili silt loam, 2 to 6 percent slop	pes			NW	I classification:	N/A
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology Summary of Findings - Attach site map	naturally	tly disturbed? problematic? sampling p	(If needed, e	xplain an	ances" present? Ny answers in Rer Sects, impo l	-
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo)		Sampled Area a Wetland?	Yes 🖲) No ()	
Remarks: (Explain alternative procedures here or in a pem swales	a separate repo	rt.)				

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)		
Primary Indicators (minimum of one required;	check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (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 Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)		Saturation Visible on Aerial Imagery (C9)		
Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)			
	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3)		
	□ Iron Deposits (B5) □ Thin Muck Surface (C7)			
Inundation Visible on Aerial Imagery (B7)	Uther (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)		
Field Observations: Surface Water Present? Yes No	Depth (inches): 1			
Water Table Present? Yes No •	· · · · · · · · · · · · · · · · · · ·			
	Depth (inches): Wetland H	ydrology Present? Yes $lacksquare$ No $igodoldsymbol{ imes}$		
Saturation Present? (includes capillary fringe) Yes O No O	Depth (inches):			
Describe Recorded Data (stream gauge, monito	pring well, aerial photos, previous inspections), if a	vailable:		
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plat	its			Sampling Point: w-jbl-050217-03
	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:5 (A)
2				Total Number of Dominant
3				Species Across All Strata:5_ (B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:)	0 =	= Total Cover		Total % Cover of: Multiply by:
	0			OBL speciles <u>58</u> x 1 = <u>58</u>
1	0			FACW species55 x 2 =110
2				FAC species $0 \times 3 = 0$
3	00			FACU species $0 \times 4 = 0$
4				UPL species $0 \times 5 = 0$
5				Column Totals:(A)(B)
6				
7				Prevalence Index = $B/A = 1.487$
Herb Stratum (Plot size:)		= Total Cover		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
1. Typha latifolia	15	\checkmark	OBL	 ✓ Rapid Test for Hydrophytic Vegetation ✓ Dominance Test is > 50%
2. Phalaris arundinacea	25	\checkmark	FACW	
3. Symplocarpus foetidus	20	\checkmark	OBL	✓ Prevalence Index is $\leq 3.0^{1}$
4. Impatiens capensis	15	\checkmark	FACW	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. Carex crinita	5		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
6. Carex vulpinoidea	8		OBL	
7. Juncus effusus	10		OBL	¹ Indicators of hydric soil and wetland hydrology must
8. Onoclea sensibilis	15	\checkmark	FACW	be present, unless disturbed or problematic.
9	0			Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12				
		= Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size:)		_		
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= Total Cover		
				Hudron hudio
				Hydrophytic Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate she	et.)			

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

US Army Corps of Engineers

Sampling Point:	w-jbl-050217-03

	ription: (Describe to	the depth	needed to docume	ent the indic	ator or co	onfirm the	absence of indicators.)		
Depth (inches)	Matrix			Redox Featu	ires	1 2	-	Barrada	
	Color (moist)	<u>%</u>	Color (moist)		Type ¹		Texture	Remarks	
0-13	10YR 5/1	80	7.5YR 4/6	15	C	M	Silty Clay Loam		
			7.5YR 4/3	5	С	Μ	Sandy Clay Loam		
		-			-		· · · · · · · · · · · · · · · · · · ·		
	s s								
		-			-				
¹ Type: C=Cor	ncentration. D=Depletio	on. RM=Redu	uced Matrix, CS=Cov	ered or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Ma	ıtrix	
Hydric Soil	Indicators:						Indicators for Proble	matic Hydric Soils : ³	
Histosol	(A1)		Polyvalue Be	elow Surface	(S8) (LRR I	२,		LRR K, L, MLRA 149B)	
Histic Epi	ipedon (A2)		MLRA 149B)						
Black His	tic (A3)		Thin Dark Su	urface (S9) (LRR R, MLI	RA 149B)		< (A16) (LRR K, L, R) r Peat (S3) (LRR K, L, R)	
Hydroger	n Sulfide (A4)			xy Mineral (F1)			
Stratified	Layers (A5)			ed Matrix (F2))		Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L)		
Depleted	Below Dark Surface (A	.11)	Depleted Ma				Thin Dark Surface (S9) (LRR K, L)		
Thick Da	Thick Dark Surface (A12)			Surface (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy Mi	uck Mineral (S1)		_	rk Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Gleyed Matrix (S4)			Redox Depre	essions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Re	edox (S5)						Red Parent Material (F21)		
Stripped	Matrix (S6)						Very Shallow Dark		
Dark Sur	face (S7) (LRR R, MLRA	A 149B)					Other (Explain in R		
³ Indicators o	of hydrophytic vegetatio	n and wotla	nd hydrology must h	o procopt up	loce distur	od or probl		emarks	
			na nyarology mast b	e present, un					
	ayer (if observed):								
Туре:							Hydric Soil Present?	Yes 🔍 No 🔾	
Depth (ind	ches):						nyune son Fresent:	res 😌 No 🖯	
Remarks:									

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Investigator(s): JBL, JTT Section, Township, Range: S. 10 T. 17N R. 7W Landform (hillslope, terrace, etc.): Lowland Local relief (concave, convex, none): none Slope: 0.0 % /	Project/Site: Carrollton-Sunnyside	City/County: Stark Sampling	Date: 02-May-17
Landform (hillslope, terrace, etc.): Lowland Local relief (concave, convex, none): none Slope: 0.0 % / Subregion (LRR or MLRA): LRR N Lat.: 40.696757 Long.: -81.256007 Datum: NAD 83 Soil Map Unit Name: Sebring silt loam, 0 to 2 percent slopes NWI classification: N/A Are climatic/hydrologic conditions on the site typical for this time of year? Yes Image: Nome imag	Applicant/Owner: AEP	State: OH Sampling Point:	w-jbl-050217-02
Subregion (LRR or MLRA): LRR N Lat.: 40.696757 Long.: -81.256007 Datum: NAD 83 Soil Map Unit Name: Sebring silt loam, 0 to 2 percent slopes NWI classification: N/A Are climatic/hydrologic conditions on the site typical for this time of year? Yes <	Investigator(s): JBL, JTT	Section, Township, Range: S. 10 T. 17N	R. 7W
Soil Map Unit Name: Sebring silt loam, 0 to 2 percent slopes NWI classification: N/A Are climatic/hydrologic conditions on the site typical for this time of year? Yes	Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none): none	Slope: 0.0 % / 0.0
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, et	Subregion (LRR or MLRA): LRR N Lat.	40.696757 Long.: -81.256007	Datum: NAD 83
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, et	Soil Map Unit Name: Sebring silt loam, 0 to 2 percent slopes	NWI classification: N	I/A
Hydric Soil Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No	Are Vegetation , Soil , or Hydrology naturally Summary of Findings - Attach site map showing Hydrophytic Vegetation Present? Yes No Yes Hydrophytic Vegetation Present?	Is the Sampled Area	arks.)

Wetland Hydrology Indicato	ors:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimu		reauired:	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			Water-Stained Leaves (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 Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)			 Oxidized Rhizospheres along Living Roots (C3) 	
Drift deposits (B3)			Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)				Geomorphic Position (D2)
Iron Deposits (B5)			Recent Iron Reduction in Tilled Soils (C6)	Shallow Aquitard (D3)
Inundation Visible on Aeria	Limagory ((F2)	Thin Muck Surface (C7)	Microtopographic Relief (D4)
Sparsely Vegetated Concav	0 .		Uther (Explain in Remarks)	FAC-neutral Test (D5)
	e sunace (DO)		► FAC-neutral rest (D5)
Field Observations:				
Surface Water Present?	$_{\rm Yes}$ \bigcirc	No 🖲	Depth (inches):	
Water Table Present?	Yes 🖲	$_{\rm No}$ O	Depth (inches): 7	
Saturation Present? (includes capillary fringe)	Yes 🖲	No \bigcirc	Depth (inches): 0	nd Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
Describe Recorded Data (str	ream gaug	ge, monito	ring well, aerial photos, previous inspections),	if available:
		-		
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plat	its			Sampling Point: w-jbl-050217-02
	Absolute		Indicator	Dominance Test worksheet:
_Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1	0		. <u> </u>	That are OBL, FACW, or FAC: <u>3</u> (A)
2	0			
3	0			Total Number of Dominant Species Across All Strata: 4 (B)
4				
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 75 x 1 = 75
1. Rubus hispidus	15	\checkmark	FACW	FACW species $35 \times 2 = 70$
2. Rubus allegheniensis	15	\checkmark	FACU	
3	0			FAC speciles $0 \times 3 = 0$
4	0			FACU species 15 x 4 = 60
5				UPL species $0 \times 5 = 0$
6				Column Totals: <u>125</u> (A) <u>205</u> (B)
7.				Prevalence Index = $B/A = 1.640$
		= Total Cover		
Herb Stratum (Plot size:)				Hydrophytic Vegetation Indicators:
1. Juncus effusus	40	\checkmark	OBL	Rapid Test for Hydrophytic Vegetation
2. Typha latifolia	10		OBL	✓ Dominance Test is > 50%
3. Symplocarpus foetidus	20		OBL	\checkmark Prevalence Index is \leq 3.0 ¹
	5		OBL	Morphological Adaptations ¹ (Provide supporting
	5		FACW	data in Remarks or on a separate sheet)
	45		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
0.			FACW	¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Seminons of Vegetation Strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:)	95 =	= Total Cover		greater than 3.28 ft (1m) tall
	0			
1	0			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= Total Cover		
				Hydrophytic Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate she	et.)			

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

US Army Corps of Engineers

Sampling Point: w-jbl-050217-02

	ription: (Describe to	the depth	needed to documen	t the indica	ator or cor	firm the a	absence of indicators.)		
Depth (inches)	<u>Matrix</u> Color (moist)	%	Re Color (moist)	dox Featu %	res Type ¹	Loc ²	Texture	Remarks	
					Туре	LOC ²		Remarks	
0-11	10YR 5/1	85	7.5YR 4/6	15	· ·		Sandy Clay Loam		
		-							
					· ·				
				-					
								· · · · · · · · · · · · · · · · · · ·	
¹ Type: C=Cor	centration. D=Depletic	n. RM=Redu	uced Matrix, CS=Cover	ed or Coate	d Sand Grai	ns ² Loca	tion: PL=Pore Lining. M=Ma	atrix	
Hydric Soil									
Histosol			Polyvalue Belo	w Surface (S8) (I RR R		_	ematic Hydric Soils : ³	
_	ipedon (A2)		MLRA 149B)	in our labor ((LRR K, L, MLRA 149B)	
Black His			Thin Dark Surf	ace (S9) (L	.RR R, MLRA	149B)	_	x (A16) (LRR K, L, R)	
	n Sulfide (A4)		🗌 Loamy Mucky	Mineral (F1)	LRR K, L)			or Peat (S3) (LRR K, L, R)	
	Layers (A5)		Loamy Gleyed	Matrix (F2)			Dark Surface (S7)	,	
_	Below Dark Surface (A	.11)	 Depleted Matr 	ix (F3)				urface (S8) (LRR K, L)	
	rk Surface (A12)	,	🗌 Redox Dark Su	urface (F6)			Thin Dark Surface		
	uck Mineral (S1)		Depleted Dark	Surface (F7	')			lasses (F12) (LRR K, L, R)	
	eyed Matrix (S4)		Redox Depres	sions (F8)				in Soils (F19) (MLRA 149B)	
Sandy Re) (MLRA 144A, 145, 149B)	
	Matrix (S6)						Red Parent Materia		
	face (S7) (LRR R, MLRA	\ 1/0B)					Very Shallow Dark		
							Other (Explain in R	Remarks)	
³ Indicators o	f hydrophytic vegetatio	on and wetla	nd hydrology must be	present, unl	ess disturbe	d or proble	ematic.		
Restrictive L	ayer (if observed):								
Туре:									
Depth (ind	ches):						Hydric Soil Present?	Yes 🔍 No 🔾	
Remarks:							1		
rtornartor									

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Carrollton-Sunnyside	City/County:	Stark	Samplin	g Date: 02-May-17
Applicant/Owner: AEP		State: OH	Sampling Point:	w-jbl-050217-01
Investigator(s): JBL, JTT	Section, T	ownship, Range: S. 10	T. 17N	R. 7W
Landform (hillslope, terrace, etc.): Swale	Local relief (o	oncave, convex, none):	none	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR N Lat.:	40.698147	Long.: -8	1.256648	Datum: NAD 83
Soil Map Unit Name: Sebring silt loam, 0 to 2 percent slopes	-	1	WI classification:	N/A
	problematic?	Are "Normal Circun (If needed, explain	any answers in Ren	Yes • No Onarks.)
Hydrophyde Vegetadon Present? Fes O No O Hydric Soil Present? Yes O No O Wetland Hydrology Present? Yes O No O		e Sampled Area in a Wetland? Yes	● _{No} ○	
Remarks: (Explain alternative procedures here or in a separate rep	ort.)			

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (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 Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	 Oxidized Rhizospheres along Living 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 Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		✓ FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):1	
Water Table Present? Yes O No 🖲	Depth (inches):	vdrology Present? Yes 💿 No 🔿
Saturation Present? Yes No •	Wetland H	ydrology Present? Yes 🔍 No 🔾
	pring well, aerial photos, previous inspections), if a	vailable:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plan	its			Sampling Point: w-jbl-050217-01
	Absolute	Dominant	Indicator	Dominance Test worksheet:
_Tree Stratum(Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	0			Species Across All Strata: 1 (B)
4	0	Π.		
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7	0			Prevalence Index worksheet:
	0 =	Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 90 x 1 = 90
1				FACW species 15 x 2 = 30
2				FAC species $0 \times 3 = 0$
3				
4				FACU species $5 \times 4 = 20$
5	0			UPL species $0 \times 5 = 0$
6	0			Column Totals: <u>110</u> (A) <u>140</u> (B)
7.	-			Prevalence Index = B/A = 1.273
	0 =	- Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size:)				Rapid Test for Hydrophytic Vegetation
1. Typha latifolla	80	\checkmark	OBL	, , , ,
2. Juncus effusus	10		OBL	Dominance Test is > 50%
3. Phalaris arundinacea	10		FACW	✓ Prevalence Index is \leq 3.0 ¹
4. Bidens frondosa	5		FACW	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. Cirsium arvense	5		FACU	 Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10				
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12				
12		- Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
_Woody Vine Stratum (Plot size:)				greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
Δ	0			height.
	0 =	Total Cover		
				Hydrophytic
				Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate shee	et.)			

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

US Army Corps of Engineers

Sampling Point: w-jbl-050217-01

	ription: (Describe to	the depth r	needed to document	t the indic	ator or co	nfirm the a	absence of indicators.)	
Depth (inches)	Matrix			dox Featu		1.0.02	Tautuma	Bernardez
	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 5/1	80	7.5YR 4/6	20			Clay Loam	
			P					·
							. <u> </u>	·
					-			
¹ Type: C=Cor	ncentration. D=Depletio	n. RM=Redu	ced Matrix, CS=Cover	ed or Coate	d Sand Gra	ins ² Loca	ition: PL=Pore Lining. M=M	atrix
Hydric Soil								
Histosol (Polyvalue Belo	w Surface (S8) (I RR R			ematic Hydric Soils : ³
_	ipedon (A2)		MLRA 149B)	(1		(LRR K, L, MLRA 149B)
Black His			Thin Dark Surf	ace (S9) (L	.RR R, MLR	A 149B)		ox (A16) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky	Mineral (F1)) LRR K, L)			or Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed	Matrix (F2)			Dark Surface (S7)	
	Below Dark Surface (A	11)	Depleted Matri	ix (F3)				urface (S8) (LRR K, L)
	rk Surface (A12)	,	🗌 Redox Dark Su	ırface (F6)			Thin Dark Surface	
	uck Mineral (S1)		Depleted Dark	Surface (F7	7)			Masses (F12) (LRR K, L, R)
	eyed Matrix (S4)		Redox Depress	sions (F8)				nin Soils (F19) (MLRA 149B)
Sandy Re) (MLRA 144A, 145, 149B)
	Matrix (S6)						Red Parent Materi	
	face (S7) (LRR R, MLRA	149B)					Very Shallow Dark	
			d hydrology myst bo	aracant uni	ana diaturb	ad as proble	Other (Explain in F	(emarks)
	of hydrophytic vegetatio	n and wettar	ia nyarology must be p	present, uni			ematic.	
	ayer (if observed):							
Туре:							Hydric Soil Present?	Yes 🔍 No 🔿
Depth (inc	ches): <u>6</u>						nyune son Present:	res S NO C
Remarks:								

Wetland 28a

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton Sunnyside	City/County:	Stark		Sampli	ng Date: 03-May-17
Applicant/Owner: AEP		State:	OH	Sampling Poir	nt: w-jbl-050317-01a
Investigator(s): Jbl, Jtt	Section, Tow	nship, Range:	S 4	T _17N	R 7W
Landform (hillslope, terrace, etc.): Hillside	Local relief (co	ncave, conve	k, none)	:	Slope: /°
Subregion (LRR or MLRA): LRR N Lat.:	40.705139		Long.:	-81.264865	Datum: NAD 83
Soil Map Unit Name: Glenford silt loam, 6 to 12 percent slopes				NWI classification:	N/A
Are climatic/hydrologic conditions on the site typical for this time of y	ear? Yes 🖲	No O (If	no, exp	lain in Remarks.)	
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 significant	tly disturbed?	Are "Norr	nal Circ	umstances" present?	Yes 🔍 No 🔾
Are Vegetation , Soil , or Hydrology naturally	problematic?	(If neede	d, expla	in any answers in Re	emarks.)

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
Hillside seeps pem. WetInds 1a				

Wetland Hydrology Indicato	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	im of one	required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
 High Water Table (A2) 			Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	l Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)				Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	\sim	\sim		
Surface Water Present?	$Yes \bigcirc$	No 🖲	Depth (inches):	
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches): 0	× • •
Saturation Present? (includes capillary fringe)	Yes 🖲	$_{\rm No}$ \bigcirc	Depth (inches):0	ydrology Present? Yes 💿 No 🔿
Describe Recorded Data (str	ream gaug	ge, monito	ring well, aerial photos, previous inspections), if a	vailable:
Remarks:				

Wetland 28a

VEGETATION (Five/Four Strata)- Use scientific names of plants.

· · · · · · · · · · · · · · · · · · ·	Dominant Species?			Sampling Point: <u>w-ibl-050317-01a</u>		
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Species		
1	0	0.0%		That are OBL, FACW, or FAC: (A)		
2		0.0%		Total Number of Dominant		
3		0.0%		Species Across All Strata: (B)		
4		0.0%		Percent of dominant Species		
5	-	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
6		0.0%				
7		0.0%		Prevalence Index worksheet:		
8		0.0%		Total % Cover of: Multiply by:		
_Sapling-Sapling/Shrub Stratum (Plot size:)	:	= Total Cove	r	OBL species $50 \times 1 = 50$		
1		0.0%		FACW species 40 x 2 = 80		
2		0.0%	-	FAC species 10 x 3 = 30		
3.	-	0.0%		FACU species $0 \times 4 = 0$		
4.		0.0%		UPL species $0 \times 5 = 0$		
5.		0.0%		Column Totals: <u>100</u> (A) <u>160</u> (B)		
6	0	0.0%		Prevalence Index = $B/A = 1.600$		
7		0.0%		Hydrophytic Vegetation Indicators:		
8		0.0%		\checkmark Rapid Test for Hydrophytic Vegetation		
9		0.0%		✓ Tapla rest of Hydrophyde Vegetation ✓ Dominance Test is > 50%		
10	0	0.0%		V Prevalence Index is $\leq 3.0^{-1}$		
Shrub Stratum (Plot size:)		= Total Cove	r			
1	0	0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
2	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
3	0	0.0%		¹ Indicators of hydric soil and wetland hydrology must		
4	0	0.0%		be present, unless disturbed or problematic.		
5	0	0.0%		Definition of Vegetation Strata:		
6	0	0.0%		Four Vegetation Strata:		
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),		
Herb Stratum (Plot size:)	:	= Total Cove	r	regardless of height.		
1. Typha angustifolia	50	50.0%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
2. Phalaris arundinacea	30	30.0%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,		
3. <u>Equisetum arvense</u>	10	10.0%	FAC	regardless of size, and all other plants less than 3.28 ft tall.		
4. Scirpus cyperinus	5	5.0%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft in height.		
5. Juncus effusus	5	5.0%	FACW	in holyn.		
6	0	0.0%		Five Vegetation Strata:		
7	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20		
8	0	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in		
9	0	0.0%		diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody		
10	0	0.0%		vines, approximately 20 ft (6 m) or more in height and less		
11	0	0.0%		than 3 in. (7.6 cm) DBH.		
12	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.		
	100 :	= Total Cove	r	Herb stratum – Consists of all herbaceous (non-woody) plants,		
1	0	0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1		
2	0	0.0%		m) in height.		
3	0	0.0%		Woody vines – Consists of all woody vines, regardless of		
4	0	0.0%		height.		
5	0	0.0%		Hydrophytic		
6	0	0.0%		Vegetation		
	0	= Total Cove	r	Present? Yes No		
Remarks: (Include photo numbers here or on a separate shee	+)			1		

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

Wetland	28a
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Sampling Point: w-jbl-050317-01a

Profile Descr	ription: (D	escribe to	the depth				nfirm the a	bsence of indicators.)		
Depth		Matrix			edox Featu					
(inches)		(moist)	<u>%</u>	Color (moist)	%	Tvpe	Loc ²	Texture	Rer vfr	narks
0-4	10YR	2/1	100					Loam		
4-10	10YR	4/1	90	7.5YR 4/6	15	C		Silt Loam		
	-									
	-									
	-									
		_				_				
¹ Type: C=Con	centration.	D=Depletio	on. RM=Redu	uced Matrix, CS=Cove	ered or Coate	ed Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=	-Matrix	
Hydric Soil 1	Indicators	:						Indicators for Pro	blematic Hydr	ic Soils ³ :
🗌 Histosol ((A1)			Dark Surface	(S7)				0) (MLRA 147)	
Histic Epi	pedon (A2)			Polyvalue Be	low Surface	(S8) (MLRA	147,148)	Coast Prairie R		
Black Hist				Thin Dark Su	rface (S9) (N	/LRA 147, 1	48)	(MLRA 147,148		
	n Sulfide (A			Loamy Gleye	d Matrix (F2))		Piedmont Floo	dplain Soils (F19)
	Layers (A5)			Depleted Ma				(MLRA 136, 14	7)	
2 cm Muc	:k (A10) (LF	RR N)		Redox Dark				Very Shallow E	ark Surface (TF	12)
· · ·		< Surface (A	11)	Depleted Da		7)		Other (Explain	in Remarks)	
	rk Surface (Redox Depre		(=) (; = = .				
Sandy Mu MLRA 147	uck Mineral 7, 148)	(S1) (LRR I	Ν,	Iron-Mangan MLRA 136)	ese Masses ((F12) (LRR	Ν,			
Sandy Gle	eyed Matrix	(S4)		Umbric Surfa	ice (F13) (MI	_RA 136, 12	2)	3		
Sandy Re	dox (S5)			Piedmont Flo	odplain Soils	5 (F19) (MLF	RA 148)	³ Indicators wetland	of hydrophytic v nydrology must l	egetation and
Stripped I	Matrix (S6)			Red Parent N	Naterial (F21)) (MLRA 12	7, 147)	unless	disturbed or pro	blematic.
De atui atiwa I	(: f -									
Restrictive L	ayer (if of):								
Type: Depth (inc	hos).							Hydric Soil Present	Yes 🖲	No 🔿
	.nes)							_		
Remarks:										

Wetland 28b

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton Sunnyside	City/County:	Stark	Samplii	Sampling Date: 03-May-17		
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: w-jbl-050317-01b		
Investigator(s): Jbl, Jtt	Section, Town	nship, Range: S 4	T 17N	R _7W		
Landform (hillslope, terrace, etc.): Hillside	Local relief (cor	ncave, convex, none)	:	Slope: 0.0% / 0.0 °		
Subregion (LRR or MLRA): LRR N Lat.	40.704868	Long.:	-81.265395	Datum: NAD 83		
Soil Map Unit Name: Glenford silt loam, 6 to 12 percent slopes			NWI classification:	N/A		
Are climatic/hydrologic conditions on the site typical for this time of y	year? Yes 🖲	No \bigcirc (If no, expl	ain in Remarks.)			
Are Vegetation, Soil, or Hydrology significar	ntly disturbed?	Are "Normal Circ	umstances" present?	Yes 🔍 No 🔾		
Are Vegetation, Soil, or Hydrology naturally	problematic?	(If needed, expla	in any answers in Re	emarks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes () Yes () Yes ()	No	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Wetland Hydrology Present?	103 0			
Remarks:				
pem pss seep				

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required; a	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
 High Water Table (A2) 			Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	al Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9))			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:				
Surface Water Present?	$Yes \bigcirc$	No 🖲	Depth (inches):	
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches): 0	vdrology Present? Yes 🖲 No 🔾
Saturation Present? (includes capillary fringe)	Yes 🖲	$_{\rm No}$ \bigcirc	Depth (inches):0	ydrology Present? Yes 🔍 No 🔾
Describe Recorded Data (st	ream gaug	ge, monito	ring well, aerial photos, previous inspections), if av	vailable:
Remarks:				

Wetland 28b

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			Dominant — Species? ————		Sampling Point: <u>w-ibl-050317-01b</u>
Tree Stratum (Plot size:)	Absolute % Cover	R	el.Strat.	Indicator Status	Dominance Test worksheet:
1.	0		0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
2	0		0.0%		
3.	0		0.0%		Total Number of Dominant Species Across All Strata: 5 (B)
4			0.0%		Species Across All Strata:5(B)
5.			0.0%		Percent of dominant Species
6			0.0%		That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)
7			0.0%		Prevalence Index worksheet:
8.	-		0.0%		Total % Cover of: Multiply by:
	0	= To	otal Cover		OBL speci es 48 x 1 = 48
Sapling-Sapling/Shrub Stratum (Plot size:)					FACW species 80 x 2 = 160
1. Cornus amomum	30		42.9%	FACW	FAC species 25 x 3 = 75
2. Viburnum dentatum	25		35.7%	FAC	FACU species $15 \times 4 = 60$
3. Rosa multiflora	15		21.4%	FACU	
4	0		0.0%		
5	0		0.0%		Column Totals: <u>168</u> (A) <u>343</u> (B)
6	0		0.0%		Prevalence Index = $B/A = 2.042$
7	0		0.0%		Hydrophytic Vegetation Indicators:
8	0		0.0%		Rapid Test for Hydrophytic Vegetation
9	0		0.0%		✓ Dominance Test is > 50%
10	0		0.0%		✓ Prevalence Index is \leq 3.0 ¹
		= To	otal Cover		Morphological Adaptations ¹ (Provide supporting
1	0		0.0%		data in Remarks or on a separate sheet)
2	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3			0.0%		¹ Indicators of hydric soil and wetland hydrology must
4			0.0%		be present, unless disturbed or problematic.
5	0		0.0%		Definition of Vegetation Strata:
6	0		0.0%		Four Vegetation Strata:
7.	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)		= To	otal Cover		regardless of height.
1. Typha angustifolia	45		45.9%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding
2. Phalaris arundinacea	20		20.4%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Onoclea sensibilis	10	\square	10.2%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4. Scirpus cyperinus	10		10.2%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft
5. Solidago gigantea	10		10.2%	FACW	in height.
6. Symplocarpus foetidus	3		3.1%	OBL	Fire Manadation Charles
7	0		0.0%		Five Vegetation Strata:
8.	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	\square	0.0%		diameter at breast height (DBH).
10.	0	\square	0.0%		Sapling stratum – Consists of woody plants, excluding woody
11		\square	0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
12.		\square	0.0%		Shrub stratum – Consists of woody plants, excluding woody
		= To	otal Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)			0.00/		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1	0		0.0%		species, except woody vines, less than approximately 3 ft (1
2			0.0%		m) in height.
3	-		0.0%		Woody vines – Consists of all woody vines, regardless of height.
4			0.0%		-
5	0		0.0%		Hydrophytic
6	0		0.0%		Vegetation Present? Yes • No ·
	0	= T	otal Cove	r	
Remarks: (Include photo numbers here or on a separate shee	+)				

sep

Wetland	28b
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Sampling Point: w-jbl-050317-01b

Profile Descr	iption: (De	escribe to	the depth	needed to	documen	t the indic	ator or co	onfirm the a	bsence of indicators.)		
Depth		Matrix			Re	dox Featu	res				
(inches)	Color	(moist)	%	Color	(moist)	%	Tvpe ¹	Loc ²	Texture	Ren	narks
0-2	10YR	3/3	100						Silt Loam	vfr	
2-9		5/1	90	10YR	4/6	10	с	M	Clay Loom		
	IUIR	5/1	90	TUTR	4/0	10		IVI	Clay Loam		
-											
	-			-							
	-										
	<u>.</u>		-								
¹ Type: C=Con	centration. I	D=Depletic	on. RM=Red	uced Matrix,	CS=Cover	ed or Coate	ed Sand Gra	ains ² Locat	tion: PL=Pore Lining. M=	Matrix	
Hydric Soil I	Indicators:								Indicators for Prob	lomatic Hydri	ic Soile ³ .
Histosol (Dar	k Surface	(S7)			_	-	
	pedon (A2)			_		w Surface ((MI RA	147 148)	2 cm Muck (A10)) (MLRA 147)	
Black Hist						face (S9) (N			Coast Prairie Re		
		、						148)	(MLRA 147,148))	
	Sulfide (A4			_		Matrix (F2)			Piedmont Flood)
	Layers (A5)				leted Matr				(MLRA 136, 147	7)	
2 cm Muc	k (A10) (LR	R N)		Red	lox Dark Su	urface (F6)			Very Shallow Da	ark Surface (TF	12)
Depleted	Below Dark	Surface (A	(11)	Dep	leted Dark	Surface (F	7)		Other (Explain i	n Remarks)	
Thick Dar	k Surface (A	A12)		Red	lox Depres	sions (F8)					
Sandy Mu	ıck Mineral ((S1) (LRR N	۷.	Iror	n-Mangane	se Masses (F12) (LRR	N,			
MLRA 147	7, 148)			MLF	RA 136)						
Sandy Gle	eyed Matrix	(S4)		Um	bric Surfac	e (F13) (ML	RA 136, 12	22)	2		
Sandy Re				Piec	dmont Floc	dplain Soils	(F19) (ML	RA 148)	³ Indicators of	f hydrophytic v	egetation and
	Matrix (S6)					aterial (F21)				ydrology must k disturbed or pro	
	()						(.,,			
Restrictive L	ayer (if ob	served):									
Туре:											~
Depth (inc	hes):								Hydric Soil Present?	Yes 🖲	No 🔿
Remarks:											
Remarks.											

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton Sunnyside	City/County: Sta	ark	Samplir	Sampling Date: 03-May-17		
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: w-jbl-050317-02		
Investigator(s): Jbl, Jtt	Section, Townshi	ip, Range: S 4	T _17N	R 7W		
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (conca	ve, convex, none)	concave	Slope: <u>0.0%</u> / <u>0.0</u> °		
Subregion (LRR or MLRA): LRR N Lat.:	40.705987	Long.:	-81.266157	Datum: NAD 83		
Soil Map Unit Name: Wayland silt loam			NWI classification:	N/A		
Are climatic/hydrologic conditions on the site typical for this time of ye	ear? Yes 🖲 No	O (If no, expl	ain in Remarks.)			
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 significant	ly disturbed?	Are "Normal Circu	imstances" present?	Yes 🔍 No 🔾		
Are Vegetation, Soil, or Hydrology naturally p	oroblematic?	(If needed, expla	in any answers in Re	marks.)		

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

Hydrophytic Vegetation Present?	Yes 🖲	No O		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	
Remarks:				
pem				

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	im of one i	required; a	check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	I Imagery (I	B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)				Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:		\bigcirc		
Surface Water Present?	Yes 🖲	No \bigcirc	Depth (inches): 1	
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches):	drology Present? Yes \odot No \bigcirc
Saturation Present?	0	\sim	Wetland Hy	drology Present? Yes 🔍 No 🔾
(includes capillary fringe)	$Yes \bigcirc$	No 🖲	Depth (inches):	5,
(includes capillary fringe)			Depth (inches): ring well, aerial photos, previous inspections), if av	
(includes capillary fringe)			Depth (inches):	
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(includes capillary fringe) Describe Recorded Data (str			Depth (inches):	

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Absolute Test Stratum Indicator Bominance Test worksheet: 1. 0 0.% Studie				minant ecies? -		Sampling Point: <u>w-ibl-050317-02</u>
1 0 0.0% Number of Dominant Species 3 (A) 2 0 0.0% Parcent of Dominant Species 3 (A) 4 0 0.0% Parcent of Dominant Species 3 (A) 5 0 0.0% Parcent of Dominant Species 3 (A) 6 0 0.0% Parcent of Dominant Species 3 (A) 7 0 0.0% Parcent of Dominant Species 3 (A) 8 0 0.0% Parcent of Dominant Species 3 (A) 8 0 0.0% Parcent of Dominant Species 5 1 0 0.0% 1 0 0.0% Parcent of Dominant Species 3 (A) 0 2 0 0.0% Parcent of Dominant Species 0 0 0 0 3 0 0.0% Parcent of Dominant Species 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Re	I.Strat.		Dominance Test worksheet:
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6. 0 0.0% Four Vegetation Strata: 7. 0 0.0% The stratum - Consists of woody plants, excluding vines, 3 in. (7.6 m) or more in diameter at breast height (DBH), regardless of height. 1. Typha latifolia 60 60.0% 08L 2. 0 0.0% 7. Saping/shrub stratum - Consists of woody plants, excluding vines, less than 3.28 ft (1 m) tail. 2. 0 0.0% 0.0% 0.0% 3. Phalaris arundinacea 10 10.0% FACW 4. Eupatorium perfoliatum 5 0.0% FACW 5. 0 0.0% 0.0% Five Vegetation Strata: 7. 0 0.0% 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). 8. 0 0.0% Vines, approximately 20 ft (1 to 5 m) in height. 9. 0 0.0% Vines, approximately 20 ft (1 to 6 m) in height. 10. 0 0.0% Vines, approximately 20 ft (1 to 6 m) in height. 11. 0 0.0% Vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.				0.0%		Definition of Vegetation Strata:
7. 0 0.0% Ifee stratum - Consists of woody plants, excluding vines, 3.n. (7.6 cm) or more in diameter at breast height (DBH), regardless of size, and all other plants less than 3.28 ft (1 m) tall. 1. 10 = Total Cover Spling/strub stratum - Consists of woody plants, excluding vines, 23.n. (7.6 cm) or more in diameter at breast height (DBH), regardless of size, and all other plants less than 3.28 ft (1 m) tall. 2. Acorus americanus 25 Ø 0.0% FACW 3. Phalaris arundinacea 10 10.0% FACW 6. 0 0.0% FACW Woody vines - Consists of all woody vines greater than 3.28 ft (1 m) tall. 7. 0 0.0% FACW Woody vines, excluding woody vines, approximately 20 ft (in por more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 8. 0 0.0% Spling/strub more in theight and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 9. 0 0.0% Spling strub more in theight and 1 m (7.6 cm) or larger in diameter at breast height (DBH). 10. 0.0% Spling strub more in theight and 1 m. (7.6 cm) or larger in diameter at breast height (DBH). 11. 0 0.0% Spling strub more in theight and 1 m. (7.6 cm) or larger in diameter at breast height (DBH). 12. 0				0.0%		Four Vegetation Strata:
Herb Stratum (Plot size:) 10 = Total Cover regardless of height. 1. Typha latifolia 60 Ø 60.0% OBL Sapling/shrub stratum - Consists of woody plants, excluding vines, less than 3.28 ft (1 m) tall. 2. Acorus americanus 25 Ø 25.0% OBL Herb stratum - Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall. 3. Phalaris arundinacea 10 10.0% FACW Woody vines - Consists of all woody vines greater than 3.28 ft tall. 5. 0 0.0% Five Vegetation Strata: Five Vegetation Strata: Five Vegetation Strata: 7. 0 0.0% ft (6 m) or more in height and 3 in. (7.6 cm) oBH. Sapling stratum - Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) oBH. 9. 0 0.0% Five Vegetation Strata: Five Vegetation Strata: 10. 0 0.0% Five Vegetation Strata: Five Vegetation Strata: 11. 0 0.0% ft (6 m) or more in height and 3 in. (7.6 cm) oBH. Shrub stratum - Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) oBH. 12. 0 0.0% Saplin				0.0%		
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Woody Vine Stratum (Plot size:) 100 = Total Cover Writes, approximately 3 to 20 tr (1 to 6 m) in height. 1. 0 0.0% Including herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 tr (1 m) in height. 2. 0 0.0% m) in height. 3. 0 0.0% m) in height. 4. 0 0.0% height. 5. 0 0.0% height. 6. 0 0.0% Present? Yes (*) No (*) No (*)	12					
1. 0 0.0% including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height. 2. 0 0.0% m) in height. 3. 0 0.0% Woody vines - Consists of all woody vines, regardless of height. 4. 0 0.0% Hydrophytic 5. 0 0.0% Hydrophytic 0. 0.0% Present? Yes			= To			
1. 0 0.0% species, except woody vines, less than approximately 3 ft (1 2. 0 0.0% m) in height. 3. 0 0.0% woody vines - Consists of all woody vines, regardless of height. 4. 0 0.0% height. 5. 0 0.0% height. 6. 0 0.0% Present? Yes< No No				0.00/		
3. 0 0.0% Woody vines - Consists of all woody vines, regardless of height. 4. 0 0.0% Hydrophytic 5. 0 0.0% Hydrophytic 6. 0 0.0% Present? Yes No No	••					species, except woody vines, less than approximately 3 ft (1
4. 0 0.0% neight. 5. 0 0.0% Hydrophytic 6. 0 0.0% Vegetation 0 0.0% Present? Yes						
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6. 0 0.0% Vegetation 0 = Total Cover Yes No						
0 = Total Cover Yes No ()						
	б					
			- 10		I	

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

Wetland	29
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Sampling Point: w-jbl-050317-02

Profile Descr	ription: (D	escribe to	the depth	needed to				onfirm the a	absence of indicators	.)		
Depth		Matrix				dox Featu			_			
(inches)		(moist)		Color	(moist)	%	Type	Loc ²	Texture	vfr	emarks	
0-5	10YR	3/2		-	-				Loam			
5-11	10YR	5/1	90	5YR	4/4	10	С	PL	Silt Loam			
	-						-			· · · ·		
	-			-	-							
	-			-	-							
				-								
¹ Type: C=Con	centration	D=Depletic	on RM=Red	uced Matrix	CS=Cover	ed or Coate	d Sand Gra	ains ² locat	tion: PL=Pore Lining. N	1=Matrix		
			JII. KIVI–Keu		C3-C0Vei			airis Loca			2	
Hydric Soil I		:				(07)			Indicators for Pr	oblematic Hyd	ric Soils ³ :	
Histosol (A	pedon (A2)				k Surface (147 140)	2 cm Muck (A	A10) (MLRA 147)	1	
				_		w Surface (face (S9) (M			Coast Prairie			
Black Hist	n Sulfide (A4	4)						148)	(MLRA 147,14	48)		
	Layers (A5)					Matrix (F2)				odplain Soils (F1	9)	
					leted Matri	urface (F6)			(MLRA 136, 1			
	k (A10) (LR					. ,	7)			Dark Surface (T	F12)	
	Below Dark		(11)		ox Depress	Surface (F7	()		Other (Explai	n in Remarks)		
	k Surface (A				•		E12) (I DD	N				
Sandy Mu MLRA 147	uck Mineral 7, 148)	(S1) (LRR I	Ν,		RA 136)	se Masses (
Sandy Gle	eyed Matrix	(S4)			bric Surfac	e (F13) (ML	.RA 136, 12	22)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
Sandy Ree	dox (S5)			Piec	lmont Floo	dplain Soils	(F19) (ML	RA 148)				
Stripped N	Matrix (S6)			Red	Parent Ma	aterial (F21)	(MLRA 12	7, 147)	unless disturbed or problematic.			
Restrictive La	aver (if ob	served):										
Type:		····,										
Depth (incl	hes):								Hydric Soil Presen	t? Yes 🖲	No \bigcirc	
Remarks:												
Reindiks.												

I

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton Sunnyside	City/County:	Stark	Sampli	ng Date: 03-May-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: w-jbl-050317-03
Investigator(s): Jbl, Jtt	Section, Town	nship, Range: S	T _17N	R _7W
Landform (hillslope, terrace, etc.): Hillside	Local relief (co	ncave, convex, none)	:	Slope: 0.0% / 0.0 °
Subregion (LRR or MLRA): LRR N Lat.:	40.707231	Long.:	-81.267075	Datum: NAD 83
Soil Map Unit Name: Muskingum and Gilpin silt loams, 18 to 25 perce	ent slopes		NWI classification:	N/A
Are climatic/hydrologic conditions on the site typical for this time of ye	ear?Yes 🖲	No 🔘 (If no, exp	ain in Remarks.)	
Are Vegetation . , Soil , or Hydrology significant	ly disturbed?	Are "Normal Circ	umstances" present?	Yes 🔍 No 🔾
Are Vegetation, Soil, or Hydrology naturally p	oroblematic?	(If needed, expla	in any answers in Re	emarks.)

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

Hydrophytic Vegetation Present?	Yes 🖲	No O		
Hydric Soil Present?	Yes 🖲	No O	Is the Sampled Area	Yes \bullet No \bigcirc
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	
Remarks:				
seep ajacent to pond				

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	Surface Soil Cracks (B6)		
Surface Water (A1)		Sparsely Vegetated Concave Surface (B8)		
✓ High Water Table (A2)			Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	I Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)				Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	0	0		
Surface Water Present?	Yes \bigcirc	No 🖲	Depth (inches):	
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches): <u>3</u>	
Saturation Present? (includes capillary fringe)	Yes 🖲	No \bigcirc	Depth (inches): 0	lydrology Present? Yes 🖲 No 🔾
Describe Recorded Data (st	ream gaug	ge, monitor	ing well, aerial photos, previous inspections), if a	available:
Remarks:				

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			minant ecies? -		Sampling Point: w-jbl-050317-03
	Absolute	Re	I.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover		ver	Status	Number of Dominant Species
1			0.0%		That are OBL, FACW, or FAC: (A)
2			0.0%		Total Number of Dominant
3			0.0%		Species Across All Strata: (B)
4			0.0%		Percent of dominant Species
5			0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6		-	0.0%		
7			0.0%		Prevalence Index worksheet:
8		<u> </u>	0.0%		Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size:	_) :	= To	tal Cove		OBL species 40 x 1 = 40
1.	0		0.0%		FACW species <u>60</u> x 2 = <u>120</u>
2.	0		0.0%		FAC species $0 \times 3 = 0$
3.			0.0%		FACU species $0 \times 4 = 0$
4.			0.0%		UPL species $0 \times 5 = 0$
5			0.0%		Column Totals: <u>100</u> (A) <u>160</u> (B)
6			0.0%		Prevalence Index = $B/A = 1.600$
7			0.0%		
8.			0.0%		Hydrophytic Vegetation Indicators: Image: Constraint of the second sec
9.	_		0.0%		
10			0.0%		✓ Dominance Test is > 50%
		= To	tal Cove		✓ Prevalence Index is $\leq 3.0^{-1}$
<u>Shrub Stratum</u> (Plot size:) 1	0		0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3			0.0%		¹ Indicators of hydric soil and wetland hydrology must
4			0.0%		be present, unless disturbed or problematic.
5	0		0.0%		Definition of Vegetation Strata:
6			0.0%		Four Vegetation Strata:
7	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= To	tal Cove		regardless of height.
1. Typha latifolia	40	\checkmark	40.0%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Scirpus cyperinus	40		40.0%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,
3 Juncus effusus	10	\square	10.0%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4 Agrimonia parviflora	5		5.0%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft
5. Solidago gigantea	5		5.0%	FACW	in height.
6	0		0.0%		Eive Vegetation Strate
7			0.0%		Five Vegetation Strata:
8	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0		0.0%		diameter at breast height (DBH).
10	0		0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
11			0.0%		than 3 in. (7.6 cm) DBH.
12.	0		0.0%		Shrub stratum – Consists of woody plants, excluding woody
Woody Vine Stratum (Plot size:)		= To	tal Cove		vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants,
	0		0.0%		including herbaceous vines, regardless of size, and woody
1					species, except woody vines, less than approximately 3 ft (1 m) in height.
2			0.0%		
3			0.0%		Woody vines – Consists of all woody vines, regardless of height.
4					
5			0.0%		Hydrophytic
6	0		0.0%		Vegetation Present? Yes No O
Remarks: (Include nhoto numbers here or on a senarate sh		- 10	otal Cove	•	

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

Wetland 30)
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Sampling Point: w-jbl-050317-03

	iption: (De		the depth	needed to				nfirm the a	absence of indicators.)	
Depth (inches)	Color	Matrix (moist)	%	Color	Re (moist)	dox Featu %	res Type ¹	Loc ²	Texture	Remarks
0-1	10YR	3/2	100		(moist)		Type	LOC-	Loam	Remarks
-										
1-9	2.5Y	5/1	90	7.5YR	4/4	10	C	M	Sandy Loam	
	-						-		-	
		-		<u>.</u>						
	-									
¹ Type: C=Con	centration. I	D=Depletic	on. RM=Redu	uced Matrix	, CS=Cover	ed or Coate	d Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=	Vlatrix
Hydric Soil I	indicators:								Indicators for Prob	lematic Hydric Soils ³ :
Histosol (A	A1)			Da	rk Surface	(S7)			2 cm Muck (A10	-
Histic Epip	pedon (A2)			Pol	yvalue Belo	w Surface (S8) (MLRA	147,148)		
Black Hist	ic (A3)			🗌 Thi	in Dark Surf	face (S9) (M	ILRA 147, 1	48)	Coast Prairie Re (MLRA 147,148)	JOX (A16)
Hydrogen	Sulfide (A4)		Loa	amy Gleyed	Matrix (F2)			Piedmont Flood	plain Soils (F19)
Stratified	Layers (A5)			🗹 De	pleted Matr	ix (F3)			(MLRA 136, 147	
2 cm Muc	k (A10) (LR	RN)			dox Dark Sı	. ,			Very Shallow Da	ark Surface (TF12)
Depleted	Below Dark	Surface (A	.11)			Surface (F7	7)		Other (Explain ii	n Remarks)
Thick Dar	k Surface (A	A12)			dox Depres					
Sandy Mu MLRA 147	ick Mineral (7, 148)	(S1) (LRR N	Ν,		n-Mangane RA 136)	se Masses (F12) (LRR N	١,		
	eyed Matrix	(S4)		🗌 Un	nbric Surfac	e (F13) (ML	RA 136, 12	2)		
Sandy Ree				🗌 Pie	dmont Floc	dplain Soils	(F19) (MLR	RA 148)	³ Indicators o	f hydrophytic vegetation and
	Matrix (S6)			_		aterial (F21)				ydrology must be present, disturbed or problematic.
Restrictive La	ayer (if ob	served):								
Туре:									Hydric Soil Present?	Yes 🔍 No 🔿
Depth (incl	hes):								Hydric Son Fresent:	
Remarks:										
l										

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton Sunnyside	City/County:	Stark	Samplir	ing Date: 03-May-17						
Applicant/Owner: AEP		State: OH	Sampling Poin	^{nt:} w-jbl-050317-04						
Investigator(s): Jbl, Jtt	Section, Town	ship, Range: S	T _17N	R 7W						
Landform (hillslope, terrace, etc.): Swale	Local relief (cor	icave, convex, none)	concave	Slope: <u>0.0%</u> / <u>0.0</u> °						
Subregion (LRR or MLRA): LRR N Lat.:	40.709412	Long.:	-81.269025	Datum: NAD 83						
Soil Map Unit Name: Glenford silt loam, 6 to 12 percent slopes			NWI classification:	N/A						
Are climatic/hydrologic conditions on the site typical for this time of year? Yes \odot No \bigcirc (If no, explain in Remarks.)										
Are Vegetation . , Soil , or Hydrology significant	ly disturbed?	Are "Normal Circu	Imstances" present?	Yes 🔍 No 🔾						
Are Vegetation, Soil, or Hydrology naturally p	roblematic?	(If needed, expla	in any answers in Re	marks.)						

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

•

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one require	d; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)	Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-neutral Test (D5)
Field Observations:	<u>`</u>	
Surface Water Present? Yes • No	Depth (inches): 0.5	
Water Table Present? Yes No		Hydrology Present? Yes 💿 No 🔾
Saturation Present? (includes capillary fringe) Yes • No	Depth (inches):	l Hydrology Present? Yes 🔍 No 🔾
	nitoring well, aerial photos, previous inspections), if	available:
Remarks:		

VEGETATION (Five/Four Strata)- Use scientific names of plants.

· · · · · · · · · · · · · · · · · · ·	Dominant Species?				Sampling Point: w-ibl-050317-04		
Tree Stratum (Plot size:)	Absolute % Cover	Re		Indicator Status	Dominance Test worksheet:		
	0		0.0%	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)		
1			0.0%		That are OBL, FACW, or FAC: (A)		
3			0.0%		Total Number of Dominant		
4.		\square	0.0%		Species Across All Strata: (B)		
5			0.0%		Percent of dominant Species		
6.		\square	0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
7			0.0%		Prevalence Index worksheet:		
8.	0		0.0%		Total % Cover of: Multiply by:		
	0 :	= Toi	tal Cover		OBL species 0 x 1 = 0		
Sapling-Sapling/Shrub Stratum (Plot size:)					FACW species 80 x 2 = 160		
1	0		0.0%		FAC speci es 15 x 3 = 45		
2			0.0%		FACU species $0 \times 4 = 0$		
3			0.0%		UPL species $0 \times 5 = 0$		
4			0.0%				
5			0.0%				
6			0.0%		Prevalence Index = $B/A = 2.158$		
7			0.0%		Hydrophytic Vegetation Indicators:		
8			0.0%		Rapid Test for Hydrophytic Vegetation		
9			0.0%		✓ Dominance Test is > 50%		
10		<u> </u>	0.0%		✓ Prevalence Index is ≤3.0 1		
Shrub Stratum (Plot size:)	:		tal Cover		Morphological Adaptations ¹ (Provide supporting		
1. Viburnum dentatum	5		100.0%	FAC	data in Remarks or on a separate sheet)		
2	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must		
4	0		0.0%		be present, unless disturbed or problematic.		
5			0.0%		Definition of Vegetation Strata:		
6	0		0.0%		Four Vegetation Strata: Tree stratum – Consists of woody plants, excluding vines, 3 in.		
7	0	\square_{-}	0.0%		(7.6 cm) or more in diameter at breast height (DBH),		
Herb Stratum ^(Plot size:)	5 :	= To	tal Cover		regardless of height.		
1. Solidago gigantea	20		22.2%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
2. Vernonia gigantea	10		11.1%	FAC	Herb stratum - Consists of all herbaceous (non-woody) plants,		
3. Verbena hastata	15		16.7%	FACW	regardless of size, and all other plants less than 3.28 ft tall.		
4. Juncus effusus	20		22.2%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft in height.		
5. Scirpus cyperinus	10		11.1%	FACW			
6. Cyperus esculentus	10		11.1%	FACW	Five Vegetation Strata:		
7. Carex annectens	5		5.6%	FACW	Tree - Woody plants, excluding woody vines, approximately 20		
8	0		0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).		
9	0		0.0%		Sapling stratum – Consists of woody plants, excluding woody		
10			0.0%		vines, approximately 20 ft (6 m) or more in height and less		
11			0.0%		than 3 in. (7.6 cm) DBH. Shrub stratum – Consists of woody plants, excluding woody		
12			0.0%		vines, approximately 3 to 20 ft (1 to 6 m) in height.		
Woody Vine Stratum (Plot size:)	90 :	= 10	tal Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,		
1	0		0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1		
2	0		0.0%		m) in height.		
3			0.0%		Woody vines – Consists of all woody vines, regardless of		
4	0		0.0%		height.		
5	0		0.0%		Hydrophytic		
6	0		0.0%		Vegetation		
	0	= To	tal Cove	r	Present? Yes 🔍 No 🖯		
Remarks: (Include photo numbers here or on a separate shee	et.)						

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

Profile Descr	ription: (Describe to	the depth r	needed to document	t the indic	cator or co	nfirm the a	bsence of indicators.)							
Depth	n Matrix Redox Features													
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture	Remarks						
0-13	10YR 5/1	90	10YR 4/4	10	C		Clay Loam							
	r													
					_									
¹ Type: C=Con	centration. D=Depletio	n. RM=Redu	ced Matrix. CS=Cover	ed or Coate	ed Sand Gra	ains ² Locat	tion: PL=Pore Lining. M=M	atrix						
	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: Indicators:													
Histosol (Dark Surface ((77)			Indicators for Proble	ematic Hydric Soils ³ :						
	pedon (A2)		Polyvalue Belo		(S8) (MI DA	1/17 1/18)	2 cm Muck (A10)	(MLRA 147)						
Black Hist			Thin Dark Surf				Coast Prairie Redox (A16)							
_	n Sulfide (A4)		Loamy Gleyed			140)	(MLRA 147,148)							
	Layers (A5)		Depleted Matri)		Piedmont Floodpl							
	k (A10) (LRR N)		Redox Dark Su				(MLRA 136, 147)							
		11)	Depleted Dark		7)		Very Shallow Dar							
	Below Dark Surface (A	11)	Redox Depress		/)		Other (Explain in	Remarks)						
	k Surface (A12)				(F12) (I PP	N								
MLRA 14	uck Mineral (S1) (LRR N 7. 148)	1,	MLRA 136)	SE 10123553	(112) (LKK	IN,								
	eyed Matrix (S4)		Umbric Surfac	e (F13) (M	LRA 136, 12	22)								
Sandy Re			Piedmont Floo				³ Indicators of hydrophytic vegetation and							
	Matrix (S6)		Red Parent Ma				wetland hydrology must be present, unless disturbed or problematic.							
) (IVILIA 12	7, 147)	uness u	stubed of problematic.						
Restrictive L	ayer (if observed):													
Туре:														
Depth (inc	hes):						Hydric Soil Present?	Yes 🔍 No 🔾						
Remarks:														
1														
1														

Wetland 32a/b

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton Sunnyside	City/County:	Stark	Samplii	ng Date: 03-May-17
Applicant/Owner: AEP		State: OH	Sampling Poir	^{nt:} w-jbl-050317-05a,05b
Investigator(s): Jbl, Jtt	Section, Tow	nship, Range: S	T _17N	R 7W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (co	ncave, convex, none)	concave	Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA): LRR N Lat.:	40.711272	Long.:	-81.271143	Datum:
Soil Map Unit Name: Wayland silt loam			NWI classification:	PSS1/EM1C
	ear? Yes • ly disturbed? problematic?	Are "Normal Circo	ain in Remarks.) umstances" present? in any answers in Re	

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No	Is the Sampled Area	Yes \bullet No \bigcirc
Wetland Hydrology Present?	Yes 🖲	No	within a Wetland?	
Remarks:				
wetland 5a=pem 5b=pss				

Wetland Hydrology Indicat	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minim	um of one	required;	check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeri	al Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	0	\sim		
Surface Water Present?	Yes 🖲	No 🔿	Depth (inches): 8	
Water Table Present?	$_{ m Yes}$ \bigcirc	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe)	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches):	Hydrology Present? Yes 🖲 No 🔾
(includes capillary fringe)			Depth (inches): Wetland ring well, aerial photos, previous inspections), if	
(includes capillary fringe)			Depth (inches):	
(includes capillary fringe)			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (s			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (s			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (s			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (s			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (s			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (s			Depth (inches):	
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(includes capillary fringe) Describe Recorded Data (s			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (s			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (s			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (s			Depth (inches):	

Wetland 32a/b

VEGETATION (Five/Four Strata)- Use scientific names of plants.

	Dominant Species?				Sampling Point: w-ibl-050317-05a.05b		
(District)	Absolute % Cover	Re	I.Strat.	Indicator Status	Dominance Test worksheet:		
Tree Stratum (Plot size:)	L		ver	Status	Number of Dominant Species		
1	0		0.0%		That are OBL, FACW, or FAC:5_ (A)		
2			0.0%		Total Number of Dominant		
3			0.0%		Species Across All Strata: <u>5</u> (B)		
4			0.0%		Percent of dominant Species		
5			0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
6			0.0%		Description - Technologie - Ite		
7	0		0.0%		Prevalence Index worksheet: Total % Cover of: Multiply by:		
8			tal Cover				
Sapling-Sapling/Shrub Stratum (Plot size:)		- 10					
1	0		0.0%		FACW species $\underline{83}$ x 2 = $\underline{166}$		
2	0		0.0%		FAC species $18 \times 3 = 54$		
3	0		0.0%		FACU species $0 \times 4 = 0$		
4	0		0.0%		UPL species $0 \times 5 = 0$		
5	0		0.0%		Column Totals: <u>134</u> (A) <u>253</u> (B)		
6	0		0.0%		Prevalence Index = $B/A = 1.888$		
7	0		0.0%		Hydrophytic Vegetation Indicators:		
8	0		0.0%		Rapid Test for Hydrophytic Vegetation		
9	0		0.0%		✓ Dominance Test is > 50%		
10	0		0.0%		✓ Prevalence Index is \leq 3.0 ¹		
Shrub Stratum (Plot size:)	:	= To	tal Cover		Morphological Adaptations ¹ (Provide supporting		
1. Viburnum dentatum	8	\checkmark	38.1%	FAC	data in Remarks or on a separate sheet)		
2. Cornus alba	8		38.1%	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
3. Sambucus nigra			23.8%	FAC	¹ Indicators of hydric soil and wetland hydrology must		
4	0		0.0%		be present, unless disturbed or problematic.		
5	0		0.0%		Definition of Vegetation Strata:		
6			0.0%		Four Vegetation Strata:		
7	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),		
Herb Stratum (Plot size:)	:	= To	tal Cover		regardless of height.		
1. Carex annectens	7		6.2%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
2. Typha latifolia	20		17.7%	OBL	Herb stratum – Consists of all herbaceous (non-woody) plants,		
3. Phalaris arundinacea	50		44.2%	FACW	regardless of size, and all other plants less than 3.28 ft tall.		
4 Impatiens capensis	5		4.4%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft		
5. Onoclea sensibilis	8		7.1%	FACW	in height.		
6. Verbesina alternifolia	5		4.4%	FAC	Five Vegetation Strata:		
7. Carex lurida	3		2.7%	OBL	Tree - Woody plants, excluding woody vines, approximately 20		
8. Lysimachia nummularia	5		4.4%	FACW	ft (6 m) or more in height and 3 in. (7.6 cm) or larger in		
9. Acorus americanus	10		8.8%	OBL	diameter at breast height (DBH).		
10	0		0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less		
11	0		0.0%		than 3 in. (7.6 cm) DBH.		
12			0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.		
Woody Vine Stratum (Plot size:)	113 :	= То	tal Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,		
1	0		0.0%		including herbaceous vines, regardless of size, and woody		
2	0		0.0%		species, except woody vines, less than approximately 3 ft (1 m) in height.		
3.			0.0%		Woody vines – Consists of all woody vines, regardless of		
4	0		0.0%		height.		
5	0		0.0%				
6	0		0.0%		Hydrophytic Vegetation		
		= To	otal Cove	r	Present? Yes No		
Domaska: (Includo akoto numbero horo er en e concreto ekoc			_		I		

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

Profile Descr	iption: (Describe to	the depth	needed to	document	t the indic	ator or co	onfirm the a	absence of indicators.)				
Depth	ofile Description: (Describe to the depth needed to document the indicator or confirm the Depth <u>Matrix</u> <u>Redox Features</u> inches) Color (moist) % Color (moist) % Type ¹ Loc ²											
(inches)	Color (moist)	%	Color	(moist)	%	Tvpe ¹	Loc ²	Texture	Remarks			
0-11	10Y 5/1	80	7.5YR	4/4	10	C		Silt Loam				
			10BG	2.5/1	10	RM		Silty Clay Loam				
		_										
	p											
				-	-			, ,				
						_						
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix												
	-	iii. Kivi=Keut	iceu iviati ix,	C3=C0ven			all'is ~LUCa	-				
Hydric Soil I					22			Indicators for Proble	ematic Hydric Soils ³ :			
			_	k Surface (2 cm Muck (A10)	(MLRA 147)			
	bedon (A2)				w Surface (. ,	Coast Prairie Redo	ox (A16)			
Black Hist					ace (S9) (N		148)	(MLRA 147,148)	. ,			
	Sulfide (A4)				Matrix (F2)			Piedmont Floodpl	ain Soils (F19)			
	Layers (A5)			leted Matri				(MLRA 136, 147)				
	k (A10) (LRR N)			ox Dark Su		-		Very Shallow Dark	< Surface (TF12)			
· ·	Below Dark Surface (A	.11)	· · ·		Surface (F	/)		Other (Explain in Remarks)				
	k Surface (A12)			ox Depress		(510) (100	N					
Sandy Mu MLRA 147	ck Mineral (S1) (LRR N	۱,		-Manganes A 136)	se Masses ((F12) (LRR	IN,					
	eyed Matrix (S4)				e (F13) (ML	RA 136, 12	22)					
Sandy Ge					dplain Soils			³ Indicators of	hydrophytic vegetation and			
	Matrix (S6)				aterial (F21)				rology must be present, sturbed or problematic.			
					iteriai (F21,	(IVILKA 12	7, 147)					
Restrictive La	ayer (if observed):											
Туре:												
Depth (incl	hes):							Hydric Soil Present?	Yes 💿 No 🔾			
Remarks:												

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site:	Sunnyside Carrollton			City/County:	Stark Count	у	Sampli	ing Date: 02-May	y-17
Applicant/Owne	r: AEP				State:	ОН	Sampling Poir	nt: W-PJR-05	50217-09
Investigator(s):	PJR, LCB			Section, Tow	nship, Range	e: S	5 T _17N	R _7W	
Landform (hillslo	ope, terrace, etc.):	Depression		Local relief (co	ncave, conv	ex, none	concave	Slope: <u>3.0%</u>	_/_ <u>1.7</u> °
Subregion (LRR	or MLRA):		Lat.:	40.718209		Long.:	-81.277578	Datum:	NAD83
Soil Map Unit Na	me: GfB						NWI classification:	N/A	
Are climatic/hyd Are Vegetation Are Vegetation	Irologic conditions o	n the site typical for th , or Hydrology , or Hydrology	significant	ear? Yes • ly disturbed? problematic?	Are "No	rmal Cire	olain in Remarks.) cumstances" present? ain any answers in Re		10 O

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔿
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM/PSS wetland				

Wetland Hydrology Indicators:		Se	condary Indicators (minimum of two required)
Primary Indicators (minimum of one re	Surface Soil Cracks (B6)		
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)		
✓ High Water Table (A2)	Hydrogen Sulfide Odor (21)	Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres al	ong Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Iro	n (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in	Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remark	(S)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		\checkmark	Microtopographic Relief (D4)
Aquatic Fauna (B13)		\checkmark	FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes •	No O Depth (inches):	1	
Water Table Present? Yes •	No O Depth (inches):	4	× • • •
Saturation Present? Yes (includes capillary fringe)	No O Depth (inches):	0 Wetland Hydrolo	gy Present? Yes 🖲 No 🔾
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, pre	evious inspections), if available	2:
Remarks:			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Domi —Speci			Sampling Point: <u>W-PJR-050217-09</u>
	Absolute % Cover	Rel.S	trat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>.</u>			Status	Number of Dominant Species
1	0).0%).0%		That are OBL, FACW, or FAC: (A)
2).0%).0%		Total Number of Dominant
3).0%		Species Across All Strata:(B)
4	-).0%).0%		Percent of dominant Species
5).0%		That Are OBL, FACW, or FAC:100.0% (A/B)
6 7).0%		Prevalence Index worksheet:
	0).0%		Total % Cover of: Multiply by:
8	· · · · ·	= Total			OBL species 95 x 1 = 95
Sapling-Sapling/Shrub Stratum (Plot size:					FACW species $5 \times 2 = 10$
1	0		0.0%		FAC species $10 \times 3 = 30$
2	0		0.0%		-
3	0		0.0%		FACU species $0 \times 4 = 0$
4	0		0.0%		UPL species $\underbrace{0}_{x 5} = \underbrace{0}_{(0)}$
5	0		0.0%		Column Totals: <u>110</u> (A) <u>135</u> (B)
6	0		0.0%		Prevalence Index = $B/A = 1.227$
7	0		0.0%		Hydrophytic Vegetation Indicators:
8	0		0.0%		Rapid Test for Hydrophytic Vegetation
9	0).0%		✓ Dominance Test is > 50%
10		<u> </u>	0.0%		✓ Prevalence Index is ≤3.0 1
Shrub Stratum (Plot size:)	:	= Total	Cover		Morphological Adaptations ¹ (Provide supporting
1. Salix nigra	10	✓ 10	00.0%	OBL	data in Remarks or on a separate sheet)
2	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4	0	<u> </u>	0.0%		be present, unless disturbed or problematic.
5	0	<u> </u>	0.0%		Definition of Vegetation Strata:
6	0		0.0%		Four Vegetation Strata:
7	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	10 :	= Total	Cover		regardless of height.
1. Typha angustifolia	85	8	5.0%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Equisetum arvense	10	1	0.0%	FAC	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Leersla virginica	5	5	5.0%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4	0		0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft in height.
5	0		0.0%		in neight.
6	0		0.0%		Five Vegetation Strata:
7	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0	<u> </u>	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	<u> </u>	0.0%		diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody
10	0		0.0%		vines, approximately 20 ft (6 m) or more in height and less
11	0		0.0%		than 3 in. (7.6 cm) DBH.
12	0	<u> </u>	0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)	100 :	= Total	Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,
1	0		0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1
2	0		0.0%		m) in height.
3	0	C	0.0%		Woody vines – Consists of all woody vines, regardless of
4			0.0%		height.
5	0		0.0%		Hudrowhudia
6	0		0.0%		Hydrophytic Vegetation
	0	= Tota	l Cover		Present? Yes No
Remarks: (Include photo numbers here or on a separate shee	at)				

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

Profile Descr	ription: (Describe to	the depth	needed to document	the indic	cator or co	nfirm the a	absence of indicators.)			
Depth	Matrix		Redox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture	Remarks		
0-16	7.5YR 4/1	90	7.5YR 6/6	10	С	М	Silt Loam			
		-						· •		
								·		
								· •		
E							-			
		-		-				,		
					_					
¹ Type: C=Con	centration. D=Depletic	n. RM=Redu	uced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=M	latrix		
Hydric Soil 1								ematic Hydric Soils ³ :		
Histosol (Dark Surface (S7)			_			
	pedon (A2)		Polyvalue Belo		(S8) (MI RA	147,148)	2 cm Muck (A10)	(MLRA 147)		
Black Hist			Thin Dark Surf				Coast Prairie Red	ox (A16)		
	n Sulfide (A4)					140)	(MLRA 147,148)			
	Layers (A5)		Loamy Gleyed Depleted Matri)		Piedmont Floodp	lain Soils (F19)		
	•						(MLRA 136, 147)			
	k (A10) (LRR N)		Redox Dark Su	. ,	-		Very Shallow Dar	k Surface (TF12)		
· · ·	Below Dark Surface (A	.11)	Depleted Dark		7)		Other (Explain in	Remarks)		
Thick Dar	k Surface (A12)		Redox Depress							
Sandy Mu	uck Mineral (S1) (LRR N	۱,	Iron-Manganes MLRA 136)	se Masses	(F12) (LRR	N,				
MLRA 147				- (F12) (M	104 107 17	22				
	eyed Matrix (S4)		Umbric Surface				³ Indicators of	hydrophytic vegetation and		
Sandy Re			Piedmont Floo				wetland hyd	drology must be present,		
Stripped I	Matrix (S6)		Red Parent Ma	iterial (F21) (MLRA 12	7, 147)	unless di	sturbed or problematic.		
Postrictivo I	ayer (if observed):									
Type:)						Hydric Soil Present?	Yes 💿 No 🔿		
Depth (inc	nes):									
Remarks:										

I

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: S	unnyside Carrollton			City/County:	Stark County	y	Sampli	ng Date: 02-May-17
Applicant/Owner	: AEP				State:	ОН	Sampling Poir	nt: W-PJR-050217-08
Investigator(s):	PJR, LCB			Section, Tow	nship, Range	e:S	5 T _17N	R 7W
Landform (hillslo	pe, terrace, etc.):	Depression		Local relief (co	ncave, convo	ex, none): concave	Slope: <u>1.0%</u> / <u>0.6</u> °
Subregion (LRR o	or MLRA):		Lat.:	40.719247		Long.:	-81.278397	Datum: NAD83
Soil Map Unit Na	me: Sb						NWI classification:	N/A
Are climatic/hydr Are Vegetation Are Vegetation	rologic conditions o	n the site typical for , or Hydrology [, or Hydrology [significant	ear? Yes ly disturbed? problematic?	Are "No	rmal Cire	olain in Remarks.) cumstances" present? ain any answers in Re	

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes () Yes ()	No () No ()	Is the Sampled Area	Yes 💿 No 🔿	
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?		
Remarks:					
PEM wetland					

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of on	Surface Soil Cracks (B6)		
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)		
✓ High Water Table (A2)	Drainage Patterns (B10)		
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery	(B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			✓ FAC-neutral Test (D5)
Field Observations:	0		
Surface Water Present? Yes •	No 🔿	Depth (inches):1	
Water Table Present? Yes •	No \bigcirc	Depth (inches):0	M
Saturation Present? (includes capillary fringe) Yes •	$_{\rm No}$ \bigcirc	Depth (inches): 0 Wetland H	lydrology Present? Yes 🖲 No 🔾
(includes capillary fringe) Yes		Depth (inches): 0 Wetland F	,
(includes capillary fringe) Yes		Depth (inches): 0	,
(includes capillary fringe) Yes		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,
(includes capillary fringe) Yes Describe Recorded Data (stream ga		Depth (inches): 0	,

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant – Species? -		Sampling Point: W-PJR-050217-08
	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)		·	Status	Number of Dominant Species
1		0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3		0.0%		Species Across All Strata: (B)
4		0.0%		Percent of dominant Species
5		0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6		0.0%		
7		0.0%		Prevalence Index worksheet:
8		0.0%		Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size:) :	= Total Cove		0BL species <u>0</u> x 1 = <u>0</u>
1	_	0.0%		FACW species $100 \times 2 = 200$
2		0.0%		FAC species $0 \times 3 = 0$
3	0	0.0%		FACU species $0 \times 4 = 0$
4		0.0%		UPL species $0 \times 5 = 0$
5	0	0.0%		Column Totals: <u>100</u> (A) <u>200</u> (B)
6		0.0%		Prevalence Index = B/A = 2.000
7	0	0.0%		Hydrophytic Vegetation Indicators:
8		0.0%		Rapid Test for Hydrophytic Vegetation
9	0	0.0%		✓ Dominance Test is > 50%
10	0	0.0%		V Prevalence Index is $\leq 3.0^{-1}$
Shrub Stratum (Plot size:)		= Total Cove		Morphological Adaptations ¹ (Provide supporting
1	0	0.0%		data in Remarks or on a separate sheet)
2		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4		0.0%		be present, unless disturbed or problematic.
5		0.0%		Definition of Vegetation Strata:
6		0.0%		Four Vegetation Strata:
7.	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.
Herb Stratum (Plot size:)	0 :	= Total Cove		(7.6 cm) or more in diameter at breast height (DBH), regardless of height.
	85	✔ 85.0%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding
Impatiens capensis Onoclea sensibilis	10	10.0%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Carex scoparla	5	5.0%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
4 5.	0	0.0%		in height.
6.		0.0%		
7		0.0%		Five Vegetation Strata:
8.	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	0.0%		diameter at breast height (DBH).
10	0	0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
11	0	0.0%		than 3 in. (7.6 cm) DBH.
12.	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody
		= Total Cove		vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants,
Woody Vine Stratum (Plot size:)	0	0.0%		including herbaceous vines, regardless of size, and woody
1		0.0%		species, except woody vines, less than approximately 3 ft (1 m) in height.
2		0.0%		Woody vines – Consists of all woody vines, regardless of
3	-	0.0%		height.
4	0	0.0%		
5	0	0.0%		Hydrophytic
6		= Total Cove	r –	Vegetation Present? Yes • No ·
Remarks: (Include photo numbers here or on a separate she			-	

Profile Descr	ription: (Describe to	the depth	needed to document	t the indic	cator or co	nfirm the a	absence of indicators.)			
Depth	Matrix		Redox Features							
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks		
0-16	7.5YR 4/1	80	7.5YR 6/6	20	С	Μ	Silt Loam			
							-	_		
	· · · ·									
							-	_		
					_					
¹ Type: C=Con	centration. D=Depletio	n. RM=Redu	uced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=N	latrix		
Hydric Soil 1							-			
Histosol (Dark Surface (\$7)				ematic Hydric Soils ³ :		
	pedon (A2)		Polyvalue Belo		(CO) (MI DA	147 140)	2 cm Muck (A10)) (MLRA 147)		
Black Hist							Coast Prairie Rec	lox (A16)		
			Thin Dark Surf			148)	(MLRA 147,148)			
	Sulfide (A4)		Loamy Gleyed)		Piedmont Floodp	lain Soils (F19)		
	Layers (A5)		Depleted Matri				(MLRA 136, 147)			
	k (A10) (LRR N)		Redox Dark Su	. ,			Very Shallow Da	rk Surface (TF12)		
· ·	Below Dark Surface (A	.11)	Depleted Dark		7)		Other (Explain in	Remarks)		
Thick Dar	k Surface (A12)		Redox Depress							
Sandy Mu	uck Mineral (S1) (LRR N	١,	Iron-Manganes MLRA 136)	se Masses	(F12) (LRR	Ν,				
MLRA 147				- (F12) (M	104 127 17	222				
	eyed Matrix (S4)		Umbric Surface				³ Indicators of	hydrophytic vegetation and		
Sandy Re			Piedmont Floo				wetland hy	drology must be present,		
Stripped I	Matrix (S6)		Red Parent Ma	iterial (F21) (MLRA 12	7, 147)	unless d	isturbed or problematic.		
Postrictivo I	ayer (if observed):									
Type:										
	haa).						Hydric Soil Present?	Yes 🔍 No 🔾		
Depth (inc	nes):						-			
Remarks:										

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

City/County: Stark County	Sampli	ng Date: 02-May-17
State:	OH Sampling Poir	nt: W-PJR-050217-07
Section, Township, Range	S 5 T 17N	R 7W
Local relief (concave, conve	x, none): concave	Slope: <u>2.0%</u> / <u>1.1</u> °
40.720955	Long.: -81.280951	Datum: NAD83
	NWI classification:	N/A
ly disturbed? Are "Nor	mal Circumstances" present?	
	State: Section, Township, Range Local relief (concave, conve 40.720955	State: OH Sampling Point Section, Township, Range: S T 17N Local relief (concave, convex, none): concave 40.720955 Long.: -81.280951 will classification: NWI classification: ear? Yes No (If no, explain in Remarks.) Are "Normal Circumstances" present?

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿			
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔿	
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?		
Remarks:					
PEM wetland					

Wetland Hydrology Indicate	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	um of one	required;	Surface Soil Cracks (B6)	
✓ Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)			✓ Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)			Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aeria	l Imagery (I	B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)				Microtopographic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-neutral Test (D5)
Field Observations:	0	0		
Surface Water Present?	Yes 🖲	No 🔿	Depth (inches): 3	
Water Table Present?	$_{\rm Yes} \bigcirc$	No 💿	Depth (inches):	
	Vec / No V			
Saturation Present? (includes capillary fringe)	$_{\rm Yes}$ \bigcirc	No 🖲	Wetland Depth (inches):	Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
(includes capillary fringe)			Depth (inches): Wetland	
(includes capillary fringe)			Depth (inches):	
(includes capillary fringe)			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
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(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	
(includes capillary fringe) Describe Recorded Data (st			Depth (inches):	

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Absolute Feis Stratum Circle of Communication Dominance Test worksheet: 1				ninant cies? –		Sampling Point: <u>W-PJR-050217-07</u>
1 0 0.05 Number of Dominant Species 2 (A) 2 0 0.05 0.00% Double 100.10% Particle of Dominant Species 2 (A) 4 0 0.05% Percent of dominant Species 2 (A) 6 0 0.05% Percent of dominant Species 2 (A) 7 0 0.05% Percent of dominant Species 7 (A) (A) 8 0 0.05% Percent of dominant Species (A) (A) (A) 9 0 0.05% Percent of dominant Species (A) (A) 9 0 0.05% Percent of dominant Species (A) (A) 1 0 0.05% Percent of dominant Species (A) (A) 2 0 0.05% Percent of dominant Species (A) (A) 2 0 0.05% Percent of dominant Species (A) (A) 2 0 0.05% Percent of dominant Species (A) (A) 2 0 0.05% Percent			Rel	.Strat.		Dominance Test worksheet:
2 0 0.% 0.% 0.% 3. 0 0.% 0.% 2.% 0.% 4. 0 0.% Percent of dominant Species 0.% Percent of dominant Species 0.% 6. 0 0.% Percent of dominant Species 0.% Percent of dominant Species 0.% 7. 0 0.% Percent of dominant Species 0.% 1.% 0.% 8. 0 0.% Percent of dominant Species 0.% 2.% 0.% 1. 0 0.% Percent of dominant Species 0.% 2.% 0.% 1. 0 0.% Percent of dominant Species 0.% 2.% 0.% 2. 0 0.% Percent of dominant Species 0.% 2.% 0.% 2. 0 0.% Percent of dominant Species 0.% 2.% 0		L			Status	
3 0 0.0% Food Mutcher of Dominant Special 2 (8) 4 0 0.0% Percent of Adminant Special 2 (8) 5 0 0.0% Percent of Adminant Special 00.002 (Well) 6 0 0.0% Percent of Adminant Special 00.002 (Well) 7 0 0.0% Percent of Adminant Special 00.002 (Well) 5 0 0.0% Percent of Adminant Special 00.002 (Well) 5 0 0.0% Percent of Adminant Special 00.002 (Well) 7 0 0.0% FAC Species 0 x 3 - 0 Percent of Adminant Special 0						That are OBL, FACW, or FAC: (A)
4. 0 0.0% Percent of dominant Species 5. 0 0.0% That <i>Leo</i> (BL, FACW, or FAC: 100.0% (V49) 7. 0 0.0% That <i>Leo</i> (BL, FACW, or FAC: 100.0% (V49) Sabine-Sabine/Shub Stratum 0 0.0% That <i>Leo</i> (BL, FACW, or FAC: 100.0% (V49) Sabine-Sabine/Shub Stratum 0 0.0% Total Cover OEL species 0 x 1 = 5 7. 0 0.0% FAC species 0 x 3 = 0 FAC species 0 x 4 = 40 9. 0 0.0% FAC species 0 x 4 = 40 UEL species 0 x 5 = 0 Col Um revelence indicators: Col Um revelence indicators: M 2 0 <th></th> <td></td> <td></td> <td></td> <td></td> <td>Total Number of Dominant</td>						Total Number of Dominant
S. O Omes Percent of dominant Specific structure Percent of dominant Specific structure 100.09% (MR) S. O O 00% Percent of dominant Specific structure 100.09% (MR) S. O O 00% Percent of dominant Specific structure 100.09% (MR) S. O O 00% Percent of dominant Specific structure 100.09% (MR) S. O O 00% FAC species O x 1 = 5 FAC species O x 4 = 40 40 40 S. O O 00% FAC species O x 4 = 40 WP Species O x 5 = 0 Col um Total s: 50% FO Species Y 4 = 40 S. O O 00% Provalence Index = VA - 2200 Provalence Index = VA - 2200 Provalence Index = VA - 2200 Provalence Index = 50% Provalence Index = 50% Provalence Index = 50% Provalence Index = 50% Provalence Index is 30% Provalence Ind	3					
3.						Percent of dominant Species
6. 0 0.0% Prevalence Index worksheet: 7. 0 0.0% Total % Cover of Multiply by: Sapling-Sapling/Shrub Stratum 0 0.0% FACU species 0 x 3 = 0 1. 0 0.0% FACU species 0 x 3 = 0 2. 0 0.0% FACU species 0 x 4 = 4 3. 0 0.0% FACU species 0 x 4 = 4 4. 0 0.0% Column Totals: 2.200 Total Sover FACU species 0 x 4 = 4 5. 0 0.0% Column Totals: 2.200 Total Sover FACU species 0 x 5 = 0 0 6. 0 0.0% Forvalence Index FAS = 0 <td< th=""><th>5</th><th></th><th></th><th></th><th></th><th></th></td<>	5					
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0. 0.0% Five Vegetation Strata: 7. 0 0.0% 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). 9. 0 0.0% Saping 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. 10. 0 0.0% Saping stratum - Consists of woody plants, excluding woody vines, approximately 20 ft (1 to 6 m) in height. 11. 0 0.0% Shrub stratum - Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height. 12. 0 0.0% Shrub stratum - Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 th (1 m) in height. 13. 0 0.0% Moody vines, consists of all woody vines, regardless of height. 3. 0 0.0% Moody vines, consists of all woody vines, regardless of height. 5. 0 0.0% Moody vines, consists of all woody vines, regardless of height. 6. 0 0.0% Yes No No						
Note 0 0.0% Tree - Woody plants, excluding woody vines, approximately 20 8. 0 0.0% ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). 9. 0 0.0% 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. 10. 0 0.0% Sapling stratum - Consists of woody plants, excluding woody vines, approximately 20 ft (1 to 6 m) in height. 11. 0 0.0% Shrub stratum - Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody vines, less than approximately 3 ft (1 m) in height. 12. 0 0.0% Shrub stratum - Consists of all woody vines, regardless of size, and woody vines, seciet woody vines, less than approximately 3 ft (1 m) in height. 13. 0 0.0% Woody vines - Consists of all woody vines, regardless of height. 3. 0 0.0% Woody vines - Consists of all woody vines, regardless of height. 5. 0 0.0% Hydrophytic 0 0.0% Present? Yes No						Five Vegetation Strata:
0. 0 0.0% 9. 0 0.0% 10. 0 0.0% 11. 0 0.0% 12. 0 0.0% Woody Vine Stratum (Plot size:) 75 1. 0 0.0% 1. 0 0.0% 1. 0 0.0% 1. 0 0.0% 1. 0 0.0% 1. 0 0.0% 1. 0 0.0% 1. 0 0.0% 1. 0 0.0% 1. 0 0.0% 2. 0 0.0% 3. 0 0.0% 4. 0 0.0% 5. 0 0.0% 6. 0 0.0% 0 0.0% Present? Yes (In the strature of all woody vines, regardless of height.	_					
0 0.0% 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. 11. 0 0.0% 12. 0 0.0% 12. 0 0.0% 12. 0 0.0% 12. 0 0.0% 14. 0 0.0% 15. 0 0.0% 16. 0 0.0% 17. 0 0.0% 18. 0 0.0% 19. 75 = Total Cover 10. 0 0.0% 11. 0 0.0% 12. 0 0.0% 13. 0 0.0% 14. 0 0.0% 15. 0 0.0% 16. 0 0.0% 16. 0 0.0% 17. 0 0.0% 18. 0 0.0% 19. 0 0.0% 19. 0 0.0% 19. 0 0.0%						
11. 0 0.0% than 3 in. (7.6 cm) DBH. 12. 0 0.0% Shrub stratum - Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 12. 75 = Total Cover 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. 1. 0 0.0% m) in height. 2. 0 0.0% m) in height. 3. 0 0.0% m) in height. 4. 0 0.0% Woody vines - Consists of all woody vines, regardless of height. 5. 0 0.0% Hydrophytic 6. 0 0.0% Vines - Consists of all woody vines, regardless of height. 4. 0 0.0% Hydrophytic Vegetation 0 0.0% No						
12. 0 0.0% Shrub stratum - Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Woody Vine Stratum (Plot size:) 75 = Total Cover 1. 0 0.0% Including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height. 2. 0 0.0% Including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height. 3. 0 0.0% Including herbaceous vines, regardless of all woody vines, regardless of height. 5. 0 0.0% Including herbaceous vines, regardless of height. 6. 0 0.0% Including herbaceous vines, regardless of height. 75 = Total Cover Yes No						
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Woody Vine Stratum (Plot size:)			= Tot			
1. 0 0.0% species, except woody vines, less than approximately 3 ft (1 2. 0 0.0% m) in height. 3. 0 0.0% Woody vines - Consists of all woody vines, regardless of height. 4. 0 0.0% Hydrophytic Vegetation Present? 6. 0 0.0% Vegetation Present?				0.00/		
3. 0 0.0% Woody vines - Consists of all woody vines, regardless of height. 4. 0 0.0% Height. 5. 0 0.0% Hydrophytic Vegetation Present? 6. 0 0.0% Present?			species, except woody vines, less that	species, except woody vines, less than approximately 3 ft (1		
4. 0 0.0% neight. 5. 0 0.0% Hydrophytic 6. 0 0.0% Vegetation 0 0.0% Present? Yes						
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0 0.0% 0 0.0% 0 = Total Cover Hydrophytic Vegetation Present? Yes No						
0 = Total Cover Ves ● No ○	_					
	6		└┘ _ _			
	Remarks: (Include photo numbers here or on a separate she		- 101			

Profile Desc						nfirm the a	absence of indicators.)	
Depth (inches)	Ma Color (moi	ist) %	Re Color (moist)	dox Feat	ures Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/2		7.5YR 4/6	5	C	 M	Silty Clay Loam	Remarks
	. <u> </u>							
			L			-		
¹ Type: C=Con	ncentration. D=De	epletion. RM=Redu	iced Matrix, CS=Cover	ed or Coat	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil							Indicators for Proble	ematic Hydric Soils ³ :
Histosol (Dark Surface	• •			2 cm Muck (A10)	(MLRA 147)
	ipedon (A2)		Polyvalue Belo				Coast Prairie Red	
Black His			Thin Dark Surf			48)	(MLRA 147,148)	0X (A10)
	n Sulfide (A4)		Loamy Gleyed)		Piedmont Floodpl	ain Soils (F19)
	Layers (A5)		Depleted Matr				(MLRA 136, 147)	
2 cm Muc	ck (A10) (LRR N)		Redox Dark Su	. ,			Very Shallow Dar	k Surface (TF12)
	Below Dark Surfa	ace (A11)	Depleted Dark		7)		Other (Explain in	Remarks)
Thick Dar	rk Surface (A12)		Redox Depres					
Sandy Mu MLRA 14	uck Mineral (S1) (7, 148)	(LRR N,	Iron-Mangane MLRA 136)	se Masses	(F12) (LRR	Ν,		
Sandy Gl	eyed Matrix (S4)		Umbric Surfac	e (F13) (M	LRA 136, 12	2)	2	
Sandy Re	edox (S5)		Piedmont Floo	dplain Soil	s (F19) (MLI	RA 148)	^o Indicators of wetland hyperbolic section wet	hydrophytic vegetation and drology must be present,
Stripped	Matrix (S6)		Red Parent Ma	aterial (F21) (MLRA 12	7, 147)	unless di	sturbed or problematic.
Postrictivo I	ayer (if observ	od):						
Type:	ayer (il observe	eu).						
Depth (inc	shos).						Hydric Soil Present?	Yes 💿 No 🔾
Remarks:								

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Sunnyside Carrollton	City/County: Star	k County	Samplin	ng Date: 02-May-17
Applicant/Owner: AEP		State: OH	Sampling Poin	t: W-PJR-050217-06
Investigator(s): PJR, LCB	Section, Township	, Range: S 32	T 18N	R 7W
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave	e, convex, none):	concave	Slope: <u>10.0%</u> / <u>5.7</u> °
Subregion (LRR or MLRA): Lat.	40.727065	Long.: -	81.287766	Datum: NAD83
Soil Map Unit Name: TIC			NWI classification:	N/A
	ntly disturbed?	are "Normal Circu	iin in Remarks.) mstances" present? n any answers in Rer	Yes 🖲 No 🔾 marks.)

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

Hydrophytic Vegetation Present?	Yes 🖲	No O		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔿
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM wetland				

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	e required; o	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery	(B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-neutral Test (D5)
Field Observations:	0		
Surface Water Present? Yes 🔍	No 🔿	Depth (inches): 1	
Water Table Present? Yes •	No \bigcirc	Depth (inches): 7	ydrology Present? Yes 🖲 No 🔾
		Wetland Hy	ydrology Present? Yes $ullet$ No $igcup$
Saturation Present? (includes capillary fringe) Yes •	No 🔿	Depth (inches):0	
(includes capillary fringe) Yes		Depth (inches):0	
(includes capillary fringe) Yes		Depth (inches): 0	
(includes capillary fringe) Yes		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
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(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant —Species? –		Sampling Point: <u>W-PJR-050217-06</u>
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: (A)
2	0	0.0%		Total Number of Dominant
3	0	0.0%		Species Across All Strata: <u>2</u> (B)
4	0	0.0%		
5	0	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0	0.0%		
7	0	0.0%		Prevalence Index worksheet:
8	0	0.0%		Total % Cover of: Multiply by:
	, :	= Total Cover		OBL species x 1 =
Sapling-Sapling/Shrub Stratum (Plot size:				FACW species X 2 =
1		0.0%		FAC species x 3 =
2	_	0.0%		FACU species 15 x 4 = 60
3		0.0%		UPL species $0 \times 5 = 0$
4	_	0.0%		. (3)
5		0.0%		Column Totals: <u>100</u> (A) <u>230</u> (B)
6		0.0%		Prevalence Index = $B/A = 2.300$
7		0.0%		Hydrophytic Vegetation Indicators:
8	0	0.0%		Rapid Test for Hydrophytic Vegetation
9	0	0.0%		✓ Dominance Test is > 50%
10	0	0.0%		✓ Prevalence Index is \leq 3.0 ¹
Shrub Stratum (Plot size:)		= Total Cover		Morphological Adaptations ¹ (Provide supporting
1	0	0.0%		data in Remarks or on a separate sheet)
2	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4		0.0%		be present, unless disturbed or problematic.
5		0.0%		Definition of Vegetation Strata:
6		0.0%		Four Vegetation Strata:
7.	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.
Herb Stratum (Plot size:)	0 :	= Total Cover		(7.6 cm) or more in diameter at breast height (DBH), regardless of height.
	40	√ 40.0%		Sapling/shrub stratum – Consists of woody plants, excluding
1. Juncus effusus	40		FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. <u>Scirpus cyperinus</u>	10	 10.0% ✓ 35.0% 	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
3. Phalaris arundinacea	<u>35</u> 15	 ✓ 35.0% 15.0% 	FACW FACU	Woody vines – Consists of all woody vines greater than 3.28 ft
4. Festuca arundinacea		0.0%	FACU	in height.
5				
6		0.0%		Five Vegetation Strata:
7		0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
9	0	0.0%		Sapling stratum – Consists of woody plants, excluding woody
10		0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
11		0.0%		Shrub stratum – Consists of woody plants, excluding woody
12		0.0%		vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)	100 :	= Total Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,
1	0	0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1
2	0	0.0%		m) in height.
3	0	0.0%		Woody vines – Consists of all woody vines, regardless of
4	0	0.0%		height.
5	0	0.0%		Hudrophytic
6	0	0.0%		Hydrophytic Vegetation
	0	= Total Cove	r	Present? Yes No
Remarks: (Include photo numbers here or on a separate shee	et.)			

Depth	Matrix			dox Featu	res		bsence of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹	Loc ²	Texture	Rema	rks
0-16	10YR 4/2	90	10YR 4/4	10	С	M	Silty Clay Loam		
				-					
	r								
	·								
1 Typo: C-Con	contration D-Donlatio	n DM-Dodu	cod Matrix CS-Covor	od or Coato	d Sand Cra	uns 21 ocat	tion: PL=Pore Lining. M=Ma	triv	
		n. Rivi=Reau	ced Matrix, CS=COVer		a sana Gra	IINS ~LOCAI			
Hydric Soil 1				(07)			Indicators for Proble	matic Hydric S	Soils ³ :
Histosol (Dark Surface ((00) (14) DA	4.47.4.40)	2 cm Muck (A10)	(MLRA 147)	
	pedon (A2)		Polyvalue Belo				Coast Prairie Redo	x (A16)	
Black Hist			Thin Dark Surf			48)	(MLRA 147,148)		
	Sulfide (A4)		Loamy Gleyed				Piedmont Floodpla	in Soils (F19)	
	Layers (A5)		Depleted Matri				(MLRA 136, 147)		
_	k (A10) (LRR N)		Redox Dark Su		7)		Very Shallow Dark		
	Below Dark Surface (A	11)	Depleted Dark		/)		Other (Explain in F	Remarks)	
	k Surface (A12)		Redox Depress		(E12) (I DD	NI			
Sandy Mu MLRA 14	uck Mineral (S1) (LRR N 7, 148)	1,	MLRA 136)						
Sandy Gle	eyed Matrix (S4)		Umbric Surfac	e (F13) (ML	.RA 136, 12	22)	³ Indicators of h		
Sandy Re	dox (S5)		Piedmont Floo	dplain Soils	(F19) (MLI	RA 148)	wetland hydr	rology must be	present,
Stripped I	Matrix (S6)		Red Parent Ma	aterial (F21)	(MLRA 12	7, 147)		turbed or proble	
Restrictive L	ayer (if observed):								
Type:									
Depth (inc							Hydric Soil Present?	Yes 🔍 I	No
Remarks:									

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Sunnyside Carrollton	City/County: Stark Co	ounty	Samplin	g Date: 02-May-17
Applicant/Owner: AEP	St	ate: OH	Sampling Point	t: W-PJR-050217-05
Investigator(s): PJR, LCB	Section, Township, R	ange: S 32	T _18N	R _7W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, c	onvex, none):	concave	Slope: <u>5.0%</u> / <u>2.9</u> °
Subregion (LRR or MLRA):	40.727957	Long.: -8	1.289019	Datum: NAD83
Soil Map Unit Name: Sh		N	WI classification:	N/A
	tly disturbed? Are	Normal Circum	n in Remarks.) Istances" present? any answers in Rer	Yes 💿 No 🔾 narks.)

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM wetland				

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of or	ne required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imager	y (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes) No ()	Depth (inches): 1	
Water Table Present? Yes) No ()	Depth (inches): 6	
Saturation Present? (includes capillary fringe) Yes		Depth (inches): 0	lydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
(includes capillary fringe) Yes) No ()	Depth (inches): 0 Wetland H	
(includes capillary fringe) Yes) No ()	Depth (inches): 0	
(includes capillary fringe) Yes) No ()	Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	
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(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream ga) No ()	Depth (inches): 0	

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Species? Indicator Dominance Test worksheet: 1. 0 0.0% Number of Dominant Species 1. 0 0.0% Total Number of Dominant Species 3. 0 0.0% Total Number of Dominant Species 4. 0 0.0% Total Number of Dominant Species 5. 0 0.0% Total Number of Dominant Species 6. 0 0.0% Percent of dominant Species 7. 0 0.0% Total Are OBL, FACW, or FAC: 100.0% 8. 0 0.0% Prevalence Index worksheet: 0 0 0.0% O 0.0% Total % Cover of: Multiply by: 0 0.0% O 0.0% FacW species 65 x 1 = 65 5. 0 0.0% O O 0.0% FacW species 50 50 6. 0 0.0% O O 0.0% FacW species 100.0% 65 7. 0 0.0% O O 0.0% FacW species 65 x 1 = 65 <th></th>	
1.00.0%Number of Dominant Species That are OBL, FACW, or FAC:32.00.0%Total Number of Dominant Species Across All Strata:3(A)3.00.0%Total Number of Dominant Species Across All Strata:3(B)4.00.0%Percent of dominant Species That Are OBL, FACW, or FAC:3(B)5.00.0%Percent of dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)6.00.0%Prevalence Index worksheet: Total % Cover of:100.0%(A/B)7.00.0%OOBL species65x 1 =8.00.0%OBL species35x 2 =70	
1. 0 0.0% 2. 0 0.0% 3. 0 0.0% 4. 0 0.0% 5. 0 0.0% 6. 0 0.0% 7. 0 0.0% 8. 0 0.0% Sapling-Sapling/Shrub Stratum (Plot size:) 0 1 0 0.0%	
2. 0 0.0% Total Number of Dominant Species Across All Strata: 3 (B) 3. 0 0.0% Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 4. 0 0.0% Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 5. 0 0.0% Prevalence Index worksheet: (A/B) 7. 0 0.0% Prevalence Index worksheet: (A/B) 8. 0 0.0% OBL species 65 x 1 = 65 5. 0 0.0% FACW species 35 x 2 = 70	l
4. 0 0.0% Percent of dominant Species 5. 0 0.0% Percent of dominant Species 6. 0 0.0% Prevalence Index worksheet: 7. 0 0.0% Prevalence Index worksheet: 8. 0 0.0% OBL species Multiply by: 9. 0 0.0% FACW species 1	
0 $0.0%$ Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% 100.0% 0 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% <th></th>	
5. 0 0.0% That Are OBL, FACW, or FAC: 100.0% (A/B) 6. 0 0.0% Prevalence Index worksheet: 100.0% (A/B) 7. 0 0.0% Prevalence Index worksheet: 100.0% (A/B) 8. 0 0.0% OBL speciles 65 x 1 = 65 5. 0 0.0% 0 0.0% 0 0 1 0 0.0% FACW speciles 35 x 2 = 70	
O. O. O. Prevalence Index worksheet: 7. 0 0.0% Prevalence Index worksheet: 8. 0 0.0% OBL species 65 x 1 = 65 5apling-Sapling/Shrub Stratum 0 0.0% 1 0 0.0%	5)
Note and the index domains in the index	
Sapling-Sapling/Shrub Stratum (Plot size:) 0 = Total Cover OBL speciles 65 x 1 = 65 1 0 0.0% 65 x 2 = 70	
Sapling-Sapling/Shrub Stratum (Plot size:)	
1 $0 \square 0.0\%$ FACW species 35 x 2 = 70	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{bmatrix} -1 \\ 0 \end{bmatrix} \begin{bmatrix} 0.0\% \end{bmatrix} $ FACU species $\begin{bmatrix} 0 \\ x \end{bmatrix} $ $4 = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$	
4 0 0 0.0% UPL speciles 0 x 5 = 0	
5 0 0 0.0% Column Totals: 100 (A) 135 (B))
6 0 \Box 0.0% Prevalence Index = B/A = 1.350	
7 0 0.0%	
8. 0 0.0% Image: Non-operation indicators: 8. 0 0.0% Image: Non-operation indicators:	
Shrub Stratum (Plot size:) 0 Inclusion Organization Organization 1. 0 0.0% 0.0% 0.0% 0.0% 0.0%	l I
2. 0 0.0% Image: Problematic Hydrophytic Vegetation 1 (Explain)	
3 0 0.0% 1 Indicators of hydric soil and wetland hydrology mus	st
4 0 be present, unless disturbed or problematic.	
5. 0 0.0% Definition of Vegetation Strata:	
6. 0 0.0% Four Vegetation Strata:	
7 0 0.0% Tree stratum – Consists of woody plants, excluding vines, (7.6 cm) or more in diameter at breast height (DBH),	3 in.
Herb Stratum (Plot size:) 0 = Total Cover (7.0 cm) of more in diameter at breast neight (DBH), regardless of height.	
Sapling/shrub stratum – Consists of woody plants, excludi	
1. Typha angustifolia 45 ✓ 45.0% OBL vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall 2. Onoclea sensibilis 15 15.0% FACW Herb stratum – Consists of all herbaceous (non-woody) plate	
2. Officiend sensibility 3. Impatiens capensis	
4 Acorus calamus 20 20 20.0% OBL Woody vines – Consists of all woody vines greater than 3.2	28 ft
$5. \qquad 0 \qquad 0.0\% \qquad \text{in height.}$	
0 0	y 20
9 0 0.0% diameter at breast height (DBH).	
0 0.0% Sapling stratum – Consists of woody plants, excluding wood	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
12 0 0.0% Shrub stratum – Consists of woody plants, excluding wood	dy
vines, approximately 5 to 20 ft (1 to 6 m) in height.	
Woody Vine Stratum (Plot size:) 100 - Total Cover Herb stratum – Consists of all herbaceous (non-woody) platincluding herbaceous vines, regardless of size, and woody 1 0 0.0% 0.0%	
species, except woody vines, less than approximately 3 ft ((1
2 0 \square 0.0% m) in height.	ļ
3 0 \square 0.0% Woody vines – Consists of all woody vines, regardless of height.	
5 0 \square 0.0% Hydrophytic	
6 0 □ 0.0% Vegetation Present? Yes ● No ○	
= Total Cover Present r 100 0 110 100 100 100 100 100 100 100	

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

Profile Descr	iption: (Describe to	the depth	needed to document	the indic	ator or co	nfirm the a	bsence of indicators.)		
Depth	Matrix			dox Featu					
(inches)	Color (moist)		Color (moist)	%	Type	Loc ²	Texture	Remarks	
0-16	10YR 5/2	85	10YR 4/6	15	C	M	Silty Clay Loam		
		-							
	p								
	·						,,		
¹ Type: C=Con	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covere	ed or Coate	d Sand Gra	ains ² Locat	tion: PL=Pore Lining. M=Ma	atrix	
Hydric Soil 1							Indicators for Proble		
Histosol (Dark Surface (S7)			_	-	
	pedon (A2)		Polyvalue Belov		S8) (MLRA	147,148)	2 cm Muck (A10)		
Black Hist			Thin Dark Surfa				Coast Prairie Redo	ox (A16)	
	Sulfide (A4)		Loamy Gleyed			,	(MLRA 147,148)		
Stratified	Layers (A5)		Depleted Matri				Piedmont Floodpla (MLRA 136, 147)	ain Soils (F19)	
2 cm Muc	k (A10) (LRR N)		Redox Dark Su	rface (F6)			Very Shallow Dark	(Surface (TE12)	
Depleted	Below Dark Surface (A	11)	Depleted Dark	Surface (F7	')		Other (Explain in		
	k Surface (A12)	,	Redox Depress	ions (F8)				Remarks)	
	ick Mineral (S1) (LRR N	١.	Iron-Manganes	e Masses (F12) (LRR	N,			
MLRA 147	7, 148)	-,	MLRA 136)						
Sandy Gle	eyed Matrix (S4)		Umbric Surface	e (F13) (ML	RA 136, 12	22)	3		
Sandy Re	dox (S5)		Piedmont Floor	dplain Soils	(F19) (MLI	RA 148)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,		
Stripped I	Matrix (S6)		Red Parent Ma	terial (F21)	(MLRA 12	7, 147)		sturbed or problematic.	
Postrictivo I	ayer (if observed):								
Type:	ayer (il observed).								
Depth (inc							Hydric Soil Present?	Yes 🔍 No 🔾	
•	nes).								
Remarks:									

I

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Sunnyside Carrollton	City/County:	Stark County	Samplir	ng Date: 02-May-17
Applicant/Owner: AEP		State: OH	Sampling Poin	nt: W-PJR-050217-04
Investigator(s): PJR, LCB	Section, Towns	hip, Range: S 3	2 T <u>18N</u>	R 7W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (conc	ave, convex, none)	concave	Slope: <u>3.0%</u> / <u>1.7</u> °
Subregion (LRR or MLRA):	40.728363	Long.:	-81.289240	Datum: NAD83
Soil Map Unit Name: Sh			NWI classification:	N/A
	vear? Yes • No atly disturbed? problematic?	Are "Normal Circ	lain in Remarks.) umstances" present? iin any answers in Re	

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

Hydrophytic Vegetation Present?	Yes 🖲	No O			
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾	
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?		
Remarks:					
PEM wetland					

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	e required; o	Surface Soil Cracks (B6)	
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)		
✓ High Water Table (A2)		Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery	(B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-neutral Test (D5)
Field Observations:	0		
Surface Water Present? Yes •	No 🔿	Depth (inches): 1	
Water Table Present? Yes •	No \bigcirc	Depth (inches): <u>10</u>	ydrology Present? Yes 🖲 No 🔾
Saturation Present? Yes •	No 🔿	Depth (inches):0	ydrology Present? Yes $ullet$ No $igcup$
(includes capillary fringe) Yes		Depth (inches):0 Wetland Hy ring well, aerial photos, previous inspections), if av	
(includes capillary fringe) Yes		Depth (inches): 0	
(includes capillary fringe) Yes		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
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(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	
(includes capillary fringe) Yes Describe Recorded Data (stream gau		Depth (inches): 0	

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			minant cies? –		Sampling Point: <u>W-PJR-050217-04</u>
	Absolute	Rel	.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Cov	-	Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC: (A)
2			0.0%		Total Number of Dominant
3	_		0.0%		Species Across All Strata:3 (B)
4	-	<u> </u>	0.0%		Percent of dominant Species
5		<u> </u>	0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6			0.0%		
7		<u> </u>	0.0%		Prevalence Index worksheet:
8	0		0.0%		Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size:) :	= 100	al Cover		OBL species 30 x 1 = 30
1.			0.0%		FACW species 59 x 2 =118
2.	_		0.0%		FAC species $1 \times 3 = 3$
3.			0.0%		FACU species $0 \times 4 = 0$
4.			0.0%		UPL species $0 \times 5 = 0$
5.			0.0%		Column Totals: <u>90</u> (A) <u>151</u> (B)
6			0.0%		Prevalence Index = $B/A = 1.678$
7			0.0%		
8.	_		0.0%		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
9			0.0%		
10			0.0%		✓ Dominance Test is > 50%
		= Tot	al Cover		✓ Prevalence Index is $\leq 3.0^{-1}$
<u>Shrub Stratum</u> (Plot size:) 1	0		0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3			0.0%		¹ Indicators of hydric soil and wetland hydrology must
4			0.0%		be present, unless disturbed or problematic.
5			0.0%		Definition of Vegetation Strata:
6			0.0%		Four Vegetation Strata:
7.	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= Tot	al Cover		regardless of height.
	5		5.6%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding
	25		27.8%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. <u>Onoclea sensibilis</u> 3. Equisetum arvense			1.1%	FAC	Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
Impatiens capensis	34		37.8%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft
5 Acorus calamus	25		27.8%	OBL	in height.
6		\square	0.0%		
7			0.0%		Five Vegetation Strata:
8	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
	0		0.0%		diameter at breast height (DBH).
9	0		0.0%		Sapling stratum – Consists of woody plants, excluding woody
11		<u> </u>	0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
12		<u> </u>	0.0%		Shrub stratum – Consists of woody plants, excluding woody
		= Tot	al Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)			0.00/		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1	0		0.0%		species, except woody vines, less than approximately 3 ft (1
2			0.0%		m) in height.
3			0.0%		Woody vines – Consists of all woody vines, regardless of height.
4			0.0%		-
5	0		0.0%		Hydrophytic
6	0		0.0%		Vegetation Present? Yes • No ·
		= 10	tal Cover	-	
Remarks: (Include photo numbers here or on a separate shee	et)				

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

Depth Matrix Redoc Features Texture Remarks D18 107K 5/2 89 107K 4/6 15 C M Silty Cay Loarn D18 107K 5/2 89 107K 4/6 15 C M Silty Cay Loarn Image: Concentration 1	Profile Descr	ription: (Describe to	the depth	needed to document	t the indic	ator or co	nfirm the a	bsence of indicators.)	
0-16 10YR 5/2 85 10YR 4/6 15 C M Silty Clay Loam 0 <td< th=""><th>Depth</th><th>Matrix</th><th></th><th>Re</th><th>dox Featı</th><th></th><th></th><th></th><th></th></td<>	Depth	Matrix		Re	dox Featı				
¹ Type: C-Concentration. D-Depletion. RM-Reduced Matrix, CS-Covered or Coated Sand Grains ² Location: PL-Pore Lining. M-Matrix Hydric Soil Indicators:							Loc ²		Remarks
Hydric Soil Indicators: Indicators: Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 148) Mestrictive Layer (if observed): Type: Type:	0-16	10YR 5/2	85	10YR 4/6	15	C	M	Silty Clay Loam	
Hydric Soil Indicators: Indicators: Indicators: Indicators: Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Dark Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 148) Mextric (S6) Red Parent Material (F21) (MLRA 127, 147) Appendix Mineral (F1 observed): Type: Type:									
Hydric Soil Indicators: Indic			-						·•
Hydric Soil Indicators: Indicators: Indicators: Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 147, 147) Restrictive Layer (if observed): Type: Type:									·•
Hydric Soil Indicators: Indicators: Indicators: Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 147, 147) Restrictive Layer (if observed): Type: Type:									
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Hydric Soil Indicators: Indicators: Indicators: Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Mineral (S1) (LRR N, MLRA 136) Iron-Manganese Masses (F12) (LRR N, MLRA 136) MLRA 147, 148) Umbric Surface (F13) (MLRA 146, 122) Sandy Muck Mineral (S1) Depleted Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 147, 147) Restrictive Layer (if observed): Type: Type:					-				
Hydric Soil Indicators: Indicators: Indicators: Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 147, 147) Restrictive Layer (if observed): Type: Type:					-				
Hydric Soil Indicators: Indicators: Indicators: Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 147, 147) Restrictive Layer (if observed): Type: Type:									
Hydric Soil Indicators: Indicators: Indicators: Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 147, 147) Restrictive Layer (if observed): Type: Type:									
Hydric Soil Indicators: Indicators: Indicators: Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 147, 147) Restrictive Layer (if observed): Type: Type:									
Hydric Soil Indicators: Indicators: Indicators: Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Mineral (S1) (LRR N, MLRA 136) Iron-Manganese Masses (F12) (LRR N, MLRA 136) MLRA 147, 148) Umbric Surface (F13) (MLRA 146, 122) Sandy Muck Mineral (S1) Depleted Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 147, 147) Restrictive Layer (if observed): Type: Type:									
Hydric Soil Indicators: Indicators: Indicators: Histosol (A1) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 147, 147) Restrictive Layer (if observed): Type: Type:									
Histosol (A1) Dark Surface (S7) Histosol (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Muck Mineral (S1) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Restrictive Layer (If observed): Type: Type:	¹ Type: C=Con	centration. D=Depletic	on. RM=Redu	iced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ains ² Locat	tion: PL=Pore Lining. M=M	atrix
Histosol (A1) Dark Surface (S7) Dark Surface (S7) Histoc Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) Stratified Layers (A5) Depleted Matrix (F3) MLRA 136, 147) 2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Depressions (F8) Other (Explain in Remarks) Sandy Muck Mineral (S1) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vegetation and wetand hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 127, 147) unless disturbed or problematic. Restrictive Layer (if observed): Type:	Hydric Soil	Indicators:						Indicators for Proble	ematic Hydric Soils ³ :
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A10) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Muck Mineral (S1) (LRR N, MLRA 136) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Type:	🗌 Histosol ((A1)		Dark Surface (S7)				-
Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) 2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Depleted Matrix (S4) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Muck Nineral (S1) (LRR N, MLRA 136) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Restrictive Layer (if observed): Type: Type: Type: Type: Depth (inches): Yes No		. ,				(S8) (MLRA	147,148)		
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) 2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147)									ox (A16)
Stratified Layers (A5) Depleted Matrix (F3) 2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Muck Mineral (S1) (LRR N, MLRA 136) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147)		()							
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Muck Mineral (S1) (LRR N, MLRA 136) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147)						/		Piedmont Floodp (ML PA 126 147)	ain Soils (F19)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Muck Mineral (S1) (LRR N, MLRA 136) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147)									
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Muck Mineral (S1) (LRR N, MLRA 136) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147)			44)			7)			
Interventional control (S1) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Muck Mineral (S1) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present?	· ·		(11)			7)		Other (Explain in	Remarks)
MLRA 147, 148) MLRA 136) MLRA 147, 148) Umbric Surface (F13) (MLRA 136, 122) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No		. ,				(510) (100	NI		
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Hydric Soil Present? Yes	Sandy Mu MLRA 14	uck Mineral (S1) (LRR N 7, 148)	Ν,	MLRA 136)					
Salidy Redox (35) International Hodoplain Solids (17) (MERA 140) wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MERA 127, 147) unless disturbed or problematic. Restrictive Layer (if observed): Type: Hydric Soil Present? Yes	Sandy Gle	eyed Matrix (S4)		Umbric Surface	e (F13) (MI	LRA 136, 12	22)	3	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. Restrictive Layer (if observed): Type: Hydric Soil Present? Yes I No Depth (inches): Yes I No No Yes I No Yes I No	Sandy Re	dox (S5)		Piedmont Floo	dplain Soils	s (F19) (ML	RA 148)	³ Indicators of	hydrophytic vegetation and
Type: Depth (inches):	Stripped I	Matrix (S6)		Red Parent Ma	iterial (F21)) (MLRA 12	7, 147)		
Type:									
Depth (inches): Hydric Soil Present? Yes No		ayer (if observed):							
Debut (mones).								Hydric Soil Brocont?	
Remarks:	Depth (inc	:hes):						Hydric Soll Present?	
	Remarks:								
	1								

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Sunnyside Carrollton	City/County:	Stark County	Samplin	ng Date: 02-May-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: W-PJR-050217-03
Investigator(s): PJR, LCB	Section, Town	nship, Range: S 3	2 T 18N	R 7W
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (co	ncave, convex, none)	concave	Slope: <u>3.0%</u> / <u>1.7</u> °
Subregion (LRR or MLRA):	40.729601	Long.:	-81.290105	Datum: NAD83
Soil Map Unit Name: TIC			NWI classification:	N/A
	year? Yes tly disturbed? problematic?	Are "Normal Circ	lain in Remarks.) umstances" present? ain any answers in Re	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No () No () No ()	Is the Sampled Area within a Wetland?	Yes 💿 No 🔿
Remarks: PEM/PSS wetland				

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of o	ne required;	Surface Soil Cracks (B6)	
Surface Water (A1)		Sparsely Vegetated Concave Surface (B8)	
✓ High Water Table (A2)		Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Image	ту (В7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes) No ()	Depth (inches):1	
Water Table Present? Yes) No ()	Depth (inches): 3	lydrology Present? Yes 🖲 No 🔾
Saturation Present? Yes) No ()	Depth (inches): 0	lydrology Present? Yes 🔍 No 🔾
(includes capillary fringe) Yes		Depth (inches): 0 Wetland H ring well, aerial photos, previous inspections), if a	
(includes capillary fringe) Yes		Depth (inches):0	
(includes capillary fringe) Yes		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	
(includes capillary fringe) Yes Describe Recorded Data (stream g		Depth (inches):0	

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			ominant oecies? –		Sampling Point: <u>W-PJR-050217-03</u>
	Absolute % Cover	Re	el.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>.</u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC: (A)
2			0.0%		Total Number of Dominant
3			0.0%		Species Across All Strata: (B)
4	-		0.0%		Percent of dominant Species
5			0.0%		That Are OBL, FACW, or FAC:100.0% (A/B)
6 7			0.0%		Prevalence Index worksheet:
8	0		0.0%		Total % Cover of: Multiply by:
	· · · · ·	 = То	otal Cover		OBL species 70 x 1 = 70
Sapling-Sapling/Shrub Stratum (Plot size:		_			FACW species $40 \times 2 = 80$
1. Salix nigra	5		100.0%	OBL	FAC species $0 \times 3 = 0$
2	0		0.0%		
3	0		0.0%		'
4	0		0.0%		
5	0		0.0%		Column Totals: <u>110</u> (A) <u>150</u> (B)
6	0		0.0%		Prevalence Index = B/A = 1.364
7	0		0.0%		Hydrophytic Vegetation Indicators:
8	0		0.0%		Rapid Test for Hydrophytic Vegetation
9	0		0.0%		✓ Dominance Test is > 50%
10		\Box_{i}	0.0%		✓ Prevalence Index is ≤3.0 1
Shrub Stratum (Plot size:)	:	= To	otal Cover		Morphological Adaptations ¹ (Provide supporting
1	0		0.0%		data in Remarks or on a separate sheet)
2	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4	0	\Box_{i}	0.0%		be present, unless disturbed or problematic.
5	0		0.0%		Definition of Vegetation Strata:
6	0	\Box_{i}	0.0%		Four Vegetation Strata:
7	0	\Box_{i}	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= To	otal Cover		regardless of height.
1. Typha angustifolia	25	\checkmark	23.8%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Carex crinita	40	\checkmark	38.1%	OBL	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Impatiens capensis	35		33.3%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4. Onoclea sensibilis	5		4.8%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft in height.
5	0		0.0%		in height.
6	0		0.0%		Five Vegetation Strata:
7	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0		0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
9	0		0.0%		Sapling stratum – Consists of woody plants, excluding woody
10	0		0.0%		vines, approximately 20 ft (6 m) or more in height and less
11	0		0.0%		than 3 in. (7.6 cm) DBH.
12	0	\Box_{i}	0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
	105 :	= To	otal Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,
1	0		0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1
2	0		0.0%		m) in height.
3	0		0.0%		Woody vines – Consists of all woody vines, regardless of
4			0.0%		height.
5	0		0.0%		Hydrophytic
6	0		0.0%		Vegetation
	0	= T(otal Cove	r	Present? Yes Vo V
Remarks: (Include photo numbers here or on a separate shee	at)				

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

		-				nfirm the a	absence of indicators.)	
Depth (inches)	<u>Matri</u> Color (moist)		Color (moist)	dox Featu %	Tvpe	Loc ²	Texture	Remarks
0-16	10YR 4/2	95	10YR 4/4	5	C	M	Silt Loam	Kemurks
					-		· · · · · · · · · · · · · · · · · · ·	
	·							
	<u>. </u>							
	-							
	·							
		etion. RM=Redu	ced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil							Indicators for Proble	ematic Hydric Soils ³ :
Histosol (Dark Surface (2 cm Muck (A10)	(MLRA 147)
	pedon (A2)		Polyvalue Belo				Coast Prairie Red	
Black His			Thin Dark Surf			48)	(MLRA 147,148)	
	n Sulfide (A4)		Loamy Gleyed)		Piedmont Floodpl	ain Soils (F19)
	Layers (A5)		Depleted Matr				(MLRA 136, 147)	
_	ck (A10) (LRR N)		Redox Dark Su	. ,			Very Shallow Dar	k Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dark		7)		Other (Explain in	Remarks)
_	rk Surface (A12)		Redox Depres		(
Sandy Mu MLRA 14	uck Mineral (S1) (LR 7, 148)	R N,	Iron-Mangane MLRA 136)	se Masses	(F12) (LRR	Ν,		
Sandy Gl	eyed Matrix (S4)		Umbric Surfac	e (F13) (M	LRA 136, 12	2)	2	
Sandy Re	edox (S5)		Piedmont Floo	dplain Soils	s (F19) (MLF	RA 148)	^o Indicators of wetland hyperbolic section wet	hydrophytic vegetation and drology must be present,
Stripped	Matrix (S6)		Red Parent Ma	aterial (F21) (MLRA 12	7, 147)	unless di	sturbed or problematic.
Postrictivo I	ayer (if observed)	\.						
Type:	ayer (il observed)).						
Depth (inc	hos).						Hydric Soil Present?	Yes 🔍 No 🔾
	.nes).							
Remarks:								

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Sunnyside Carrollton	City/County: Sta	irk County	Samplir	ng Date: 02-May-17
Applicant/Owner: AEP		State: OH	Sampling Poin	nt: W-PJR-050217-02
Investigator(s): PJR, LCB	Section, Townshi	p, Range: S 3	2 T _18N	R 7W
Landform (hillslope, terrace, etc.): Hillside	Local relief (concar	ve, convex, none)	concave	Slope: <u>5.0%</u> / <u>2.9</u> °
Subregion (LRR or MLRA):	40.730144	Long.:	-81.291078	Datum: NAD83
Soil Map Unit Name: TIC			NWI classification:	PFO1C
	tly disturbed?	Are "Normal Circo	ain in Remarks.) umstances" present? in any answers in Re	

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿			
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾	
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?		
Remarks:					
PEM wetland					

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	Surface Soil Cracks (B6)		
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)		
✓ High Water Table (A2)		Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes •	No 🔿	Depth (inches): 1	
Water Table Present? Yes •	No \bigcirc	Depth (inches): 7	
Saturation Present? (includes capillary fringe) Yes •	No O	Depth (inches): 0	tland Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
Describe Recorded Data (stream gaug	ge, monitoring	well, aerial photos, previous inspection	s), if available:
Remarks:			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

			inant ies? –		Sampling Point: <u>W-PJR-050217-02</u>
	Absolute	Rel.S	Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover		-	Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC: (A)
2			0.0%		Total Number of Dominant
3	_		0.0%		Species Across All Strata: (B)
4	-		0.0%		Percent of dominant Species
5			0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6			0.0%		
7			0.0%		Prevalence Index worksheet:
8	0		0.0%		Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size:) :	= 10ta	l Cover		OBL species 70 x 1 = 70
1			0.0%		FACW species 25 x $2 = 50$
2	_		0.0%		FAC species $0 \times 3 = 0$
3.			0.0%		FACU species $0 \times 4 = 0$
4.			0.0%		UPL species x 5 =
5.	_		0.0%		Column Totals: (A) (B)
6			0.0%		Prevalence Index = $B/A = 1.263$
7			0.0%		
8.	_		0.0%		Hydrophytic Vegetation Indicators: Image: Constraint of the second sec
9			0.0%		
10			0.0%		✓ Dominance Test is > 50%
		= Tota	l Cover		✓ Prevalence Index is \leq 3.0 ¹
<u>Shrub Stratum</u> (Plot size:) 1	0		0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3			0.0%		¹ Indicators of hydric soil and wetland hydrology must
4			0.0%		be present, unless disturbed or problematic.
5			0.0%		Definition of Vegetation Strata:
6			0.0%		Four Vegetation Strata:
7.	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= Tota	l Cover		regardless of height.
	65	✓ 6	8.4%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding
1. Carex vulpinoidea 2. Persicaria sagittata			5.3%	OBL	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Impatiens capensis	25		26.3%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4	0		0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
5	0		0.0%		in height.
6.	0		0.0%		
7			0.0%		Five Vegetation Strata:
8.	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0		0.0%		diameter at breast height (DBH).
9 10	0		0.0%		Sapling stratum – Consists of woody plants, excluding woody
11			0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
12	0		0.0%		Shrub stratum – Consists of woody plants, excluding woody
			l Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)					Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1	0		0.0%		species, except woody vines, less than approximately 3 ft (1
2	0		0.0%		m) in height.
3			0.0%		Woody vines – Consists of all woody vines, regardless of height.
4			0.0%		
5	0		0.0%		Hydrophytic
6	0		0.0%		Vegetation Present? Yes • No ·
	0	= Tota	al Cover		
Remarks: (Include photo numbers here or on a separate shee	et)				

		the depth h	eeded to document			firm the a	bsence of mulcators.)			
Depth	Matrix			dox Featu			_ .	_		
(inches) 0-16	<u>Color (moist)</u> 10YR 5/1	90	Color (moist) 10YR 6/4	 10	_ Tvpe ¹ C	Loc ²		Rem	arks	
0-10			10110 0/4			101				
		· ,								
		,								
		- <u>-</u>		-						
		· ,								
		n. RM=Reduc	ed Matrix, CS=Cover	ed or Coate	d Sand Gra	ins ² Locat	ion: PL=Pore Lining. M=Ma	atrix		
lydric Soil Ir							Indicators for Proble	matic Hydrid	c Soils ³ :	
Histosol (A	,		Dark Surface (,			2 cm Muck (A10)	(MLRA 147)		
Histic Epip			Polyvalue Belo				Coast Prairie Redo	x (A16)		
Black Histi			Thin Dark Surf		LRA 147, 1	48)	(MLRA 147,148)			
	Sulfide (A4)		Loamy Gleyed				Piedmont Floodpla	ain Soils (F19)		
	Layers (A5)		Depleted Matri	. ,			(MLRA 136, 147)			
_	(A10) (LRR N)		Redox Dark Su		•		Very Shallow Dark	Surface (TF1	2)	
	Below Dark Surface (A	11)	Depleted Dark)		Other (Explain in I	Remarks)		
_	k Surface (A12)		Iron-Manganes		E10) (LDD)	J				
Sandy Muc MLRA 147,	ck Mineral (S1) (LRR N 7, 148)	,	MLRA 136)							
	yed Matrix (S4)		Umbric Surface				³ Indicators of I	avdrophytic vo	actation and	
	dov (SE)		Piedmont Floo				³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
Sandy Red					(MI DA 12)	/ 147)	unloss dis	turbed or prol	olematic.	
Sandy Red			Red Parent Ma	iterial (F21)		, ,	unless us			
Stripped M			Red Parent Ma	iterial (F21)		, ,	uness us			
Stripped M	Natrix (S6)		Red Parent Ma	iterial (F21)			uness us			
Stripped M	Matrix (S6) ayer (if observed):		Red Parent Ma	iterial (F21)			Hydric Soil Present?	Yes •	No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	iterial (F21)					No O	
Stripped M Restrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	iterial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M estrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Restrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Restrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Restrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Restrictive La Type:	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No ()	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No ()	
Stripped M Sestrictive La Type: Depth (inch	Matrix (S6) ayer (if observed):		Red Parent Ma	terial (F21)					No O	

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Sunnyside Carrollton	City/County: Stark County		Sampling I	Date: 02-May-17
Applicant/Owner: AEP	State:	ОН	Sampling Point:	W-PJR-050217-01
Investigator(s): PJR, LCB	Section, Township, Range	: S 32	T _18N	R _7W
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conve	x, none):	concave Sic	ope: <u>3.0%</u> / °
Subregion (LRR or MLRA):	40.730853	Long.: -81.2	91667	Datum: NAD83
Soil Map Unit Name: Fph4F1		NWI	classification: N	/A
	tly disturbed? Are "Nor		Remarks.) inces" present? y answers in Rema	Yes 🔍 No 🔾 urks.)

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	
Remarks:				
PEM wetland				

			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	required; cl	neck all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			✓ FAC-neutral Test (D5)
Field Observations:	0		
Surface Water Present? Yes •	No 🔿	Depth (inches): <u>1</u>	
Water Table Present? Yes •	No \bigcirc	Depth (inches): 7	
Saturation Present? Yes •	No O	Depth (inches): 0	Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
Describe Recorded Data (stream gaug	ge, monitori	ng well, aerial photos, previous inspections), if	available:
Remarks:			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant – Species?		Sampling Point: <u>W-PJR-050217-01</u>
	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)	6		Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3		0.0%		Species Across All Strata: (B)
4 5.		0.0%		Percent of dominant Species
6		0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7		0.0%		Prevalence Index worksheet:
8.	0	0.0%		Total % Cover of: Multiply by:
	0 :	= Total Cove	•	OBL species 70 x 1 = 70
Sapling-Sapling/Shrub Stratum (Plot size:				FACW species 15 x 2 = 30
1		0.0%		FAC species $0 \times 3 = 0$
2	_	0.0%		FACU species $0 \times 4 = 0$
3		0.0%		UPL species $0 \times 5 = 0$
4 5		0.0%		Column Totals:85(A)100(B)
6		0.0%		
7		0.0%		Prevalence Index = $B/A = 1.176$
8		0.0%		Hydrophytic Vegetation Indicators:
9		0.0%		✓ Rapid Test for Hydrophytic Vegetation
10		0.0%		 ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0¹
Shrub Stratum (Plot size:)		= Total Cove		
1)		0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4.		0.0%		be present, unless disturbed or problematic.
5		0.0%		Definition of Vegetation Strata:
6		0.0%		Four Vegetation Strata:
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 :	= Total Cove		regardless of height.
1. Galium tinctorium	5	5.9%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Typha angustifolia	65	76.5%	OBL	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Onoclea sensibilis	15	17.6%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4		0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft in height.
5		0.0%		in height.
6		0.0%		Five Vegetation Strata:
7		0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8		0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
9		0.0%		Sapling stratum – Consists of woody plants, excluding woody
10		0.0%		vines, approximately 20 ft (6 m) or more in height and less
11		0.0%		than 3 in. (7.6 cm) DBH. Shrub stratum – Consists of woody plants, excluding woody
12	85 :	0.0% = Total Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height.
(Plot size:)		_		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1	0	0.0%		species, except woody vines, less than approximately 3 ft (1
2		0.0%	·	m) in height.
3		0.0%		Woody vines – Consists of all woody vines, regardless of height.
4		0.0%		
5		0.0%		Hydrophytic
6		0.0%		Vegetation Present? Yes • No ·
		= Total Cove	F	
Remarks: (Include photo numbers here or on a separate she	et.)			

Depth		Matrix			R	Redox Features				
(inches)	Color	(moist)	%	Colo	r (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks
0-2	10YR	5/1	90	10YR	6/4	10	С	М	Silty Clay Loam	
	4.01/D			4.01/D					-	
2-16	10YR	5/1	80	10YR	6/4	20	C	Μ	Silty Clay Loam	
	-		-						-	19
	u									
							_			
										4
1										
¹ Type: C=Conc	centration.	D=Depletio	on. RM=Red	luced Matrix	, CS=Cove	red or Coate	ed Sand Gr	ains ² Locat	tion: PL=Pore Lining. M=M	latrix
Hydric Soil I	ndicators								Indicators for Probl	ematic Hydric Soils ³ :
Histosol (A	A1)			Da	ark Surface	(S7)			_	
_	edon (A2)			Po	lvvalue Bel	ow Surface	(S8) (MLRA	A 147,148)	2 cm Muck (A10)	(MLRA 147)
Black Histi					•	rface (S9) (N			Coast Prairie Red	ox (A16)
		4)						140)	(MLRA 147,148)	
	Sulfide (A					d Matrix (F2)		Piedmont Floodp	lain Soils (F19)
	Layers (A5)				pleted Mat				(MLRA 136, 147)	
2 cm Muck	k (A10) (LF	RR N)		Re	dox Dark S	Surface (F6)			Very Shallow Dar	k Surface (TF12)
Depleted I	Below Dark	Surface (A	A11)	De	pleted Dar	k Surface (F	7)		Other (Explain in	Remarks)
	k Surface (Re	dox Depres	ssions (F8)				Komunoy
		(S1) (LRR	M			ese Masses	(F12) (LRR	N.		
MLRA 147	7. 148)	(31) (LKK I	Ν,		RA 136)		(, (
	yed Matrix	(\$4)		IU 🗌	nbric Surfa	ce (F13) (M	LRA 136, 1	22)		
		(34)							³ Indicators of	hydrophytic vegetation and
Sandy Rec				_		odplain Soils			drology must be present,	
Stripped N	Aatrix (S6)			L Re	ed Parent N	laterial (F21) (MLRA 12	27, 147)	unless di	isturbed or problematic.
Beet deltas te										
Restrictive La	ayer (if of	oserved):								
Туре:										× • •
Depth (inch	nes):								Hydric Soil Present?	Yes 🔍 No 🔾
Remarks:										
Remarks.										

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

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Sunnyside-Carrollton	City/County:	Stark County	Samplin	ng Date: 01-May-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: W-PJR-050117-09
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S	T <u>18N</u>	R 7W
Landform (hillslope, terrace, etc.): Hillside	Local relief (co	ncave, convex, none)): none	Slope: <u>10.0%</u> / <u>5.7</u> °
Subregion (LRR or MLRA):	40.734985	Long.:	-81.297237	Datum: NAD83
Soil Map Unit Name: MsD			NWI classification:	N/A
	ear? Yes • tly disturbed? problematic?	Are "Normal Circ	lain in Remarks.) umstances" present? ain any answers in Re	

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

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM wetland				

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	required; c	heck all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)		Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres along Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduced Iron (C4)	Dry Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift deposits (B3)		Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery	(B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes •	No 🔿	Depth (inches):1	
Water Table Present? Yes \odot	No \bigcirc	Depth (inches): 0	
Saturation Present? Yes •	$_{No}$ \bigcirc	Depth (inches): 0 Wetland Hy	/drology Present? Yes ● No 〇
	ge, monitor	ing well, aerial photos, previous inspections), if av	ailable:
Remarks:			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

		Dominant – Species?		Sampling Point: <u>W-PJR-050117-09</u>
	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)		Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: (A)
2		0.0%		Total Number of Dominant
3	_	0.0%		Species Across All Strata: (B)
4		0.0%		Percent of dominant Species
5		0.0%		That Are OBL, FACW, or FAC: 100.0% (A/B)
67		0.0%		Prevalence Index worksheet:
7	0	0.0%		Total % Cover of: Multiply by:
	0 -	= Total Cove		OBL species 75 x 1 = 75
Sapling-Sapling/Shrub Stratum (Plot size:)	_		FACW species $25 \times 2 = 50$
1	0	0.0%		FAC species $0 \times 3 = 0$
2	0	0.0%		FACU species $0 \times 4 = 0$
3	0	0.0%		
4		0.0%		
5		0.0%		Column Totals: <u>100</u> (A) <u>125</u> (B)
6		0.0%		Prevalence Index = $B/A = 1.250$
7	_	0.0%	·	Hydrophytic Vegetation Indicators:
8		0.0%		Rapid Test for Hydrophytic Vegetation
9		0.0%		✓ Dominance Test is > 50%
10		0.0%		\checkmark Prevalence Index is \leq 3.0 ¹
Shrub Stratum (Plot size:)	0 =	= Total Cover		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
2 3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4		0.0%		be present, unless disturbed or problematic.
5		0.0%		Definition of Vegetation Strata:
6		0.0%		Four Vegetation Strata:
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	0 =	= Total Cove	•	regardless of height.
1. Typha angustifolia	75	✓ 75.0%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Leersia virginica	15	15.0%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Onoclea sensibilis	10	10.0%	FACW	regardless of size, and all other plants less than 3.28 ft tall.
4.	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
5	0	0.0%		in height.
6	0	0.0%		Five Vegetation Strata:
7	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	0.0%		diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody
10		0.0%		vines, approximately 20 ft (6 m) or more in height and less
11	0	0.0%		than 3 in. (7.6 cm) DBH.
12		0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)	100 =	= Total Cove		Herb stratum – Consists of all herbaceous (non-woody) plants,
1	0	0.0%		including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1
2	0	0.0%		m) in height.
3	0	0.0%		Woody vines – Consists of all woody vines, regardless of
4	0	0.0%		height.
5	0	0.0%		Hydrophytic
6	0	0.0%		Vegetation Present? Yes • No O
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate shee	et)			

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Case No(s). 17-1318-EL-BLN

Summary: Letter of Notification electronically filed by Mr. Ryan F.M. Aguiar on behalf of AEP Ohio Transmission Company, Inc.