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

Project/Site: Sunnyside-Carrollton	City/County:	Stark County	Sampling Date: 01-May-17			
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: W-PJR-050117-08		
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S	1 <b>T</b> <u>18N</u>	<b>R</b> _7W		
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (co	ncave, convex, none	concave	Slope: <u>5.0%</u> / <u>2.9</u> °		
Subregion (LRR or MLRA):	<b>t.:</b> 40.737158	Long.:	-81.299944	Datum: NAD83		
Soil Map Unit Name: MsD			NWI classification:	N/A		
	f 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? 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 one	required; ch	eck 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	s (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:	$\sim$		
Surface Water Present? Yes •	No 🔿	Depth (inches): 3	
Water Table Present? Yes •	No $\bigcirc$	Depth (inches): 0	Vetland Hydrology Present? Yes 💿 No 🔾
Saturation Present? (includes capillary fringe) Yes •	$_{\rm No}$ $\bigcirc$	Depth (inches):0	Vetland Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
	ge, monitorir	ng well, aerial photos, previous inspecti	ons), if available:
Remarks:			

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

		Dominant – Species? –		Sampling Point: <u>W-PJR-050117-08</u>
	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 7		0.0%		Prevalence Index worksheet:
8	0	0.0%		Total % Cover of: Multiply by:
	0.	= Total Cover		0BL species 55 x 1 = 55
_Sapling-Sapling/Shrub Stratum (Plot size:	)	_		<b>FACW species</b> $35 \times 2 = 70$
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	0.0%		
5		0.0%		Column Totals: (A) (B)
6		0.0%		Prevalence Index = B/A = 1.389
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:)		= Total Cover		Morphological Adaptations <sup>1</sup> (Provide supporting
1		0.0%		data in Remarks or on a separate sheet)
2		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		0.0%		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4		0.0%		
5		0.0%		Definition of Vegetation Strata:
6		0.0%		Four Vegetation Strata: 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. Carex vulpinoidea	55	61.1%	OBL	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Onoclea sensibilis	35	✓ 38.9%	FACW	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 in height.
5	0	0.0%		
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	0.0%		Shrub stratum – Consists of woody plants, excluding woody
12		0.0% 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 O No O
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate she	et )			

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

Profile Desci	ription: (Describe	e to the depth	needed to documen	t the indic	ator or co	nfirm the a	absence of indicators.)	
Depth	Mati			dox Featu				
(inches)	Color (mois		Color (moist)	%	Tvpe <sup>1</sup>		Texture	Remarks
0-16	10YR 4/2	90	10YR 4/6	10	C	M	Silty Clay Loam	
						-		
			. <u> </u>					
<sup>1</sup> Type: C=Con	centration. D=Dep	letion. RM=Redu	ced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ains <sup>2</sup> Loca	tion: PL=Pore Lining. M=Ma	atrix
Hydric Soil	-						Indicators for Proble	
Histosol (			Dark Surface	(S7)				-
	pedon (A2)		Polyvalue Belo	. ,	(S8) (MLRA	147,148)	2 cm Muck (A10)	(MLRA 147)
Black Hist			Thin Dark Surf				Coast Prairie Redo	ox (A16)
	n Sulfide (A4)		Loamy Gleyed			,	(MLRA 147,148)	
	Layers (A5)		Depleted Matr		/		Piedmont Floodpla (MLRA 136, 147)	ain Soils (F19)
	:k (A10) (LRR N)		Redox Dark Su				Very Shallow Dark	Surface (TE12)
	Below Dark Surfac	۹ (۵11)	Depleted Dark		7)		,	
· · ·	k Surface (A12)		Redox Depres		,		Other (Explain in I	Remarks)
	uck Mineral (S1) (Ll		Iron-Mangane		(F12) (LRR	N.		
MLRA 14	7, 148)	KK N,	MLRA 136)		( , (			
Sandy Gle	eyed Matrix (S4)		Umbric Surfac	e (F13) (MI	LRA 136, 12	22)	2	
Sandy Re	dox (S5)		Piedmont Floo	dplain Soils	s (F19) (MLI	RA 148)	<sup>3</sup> Indicators of I wetland byd	nydrophytic vegetation and rology must be present,
Stripped	Matrix (S6)		Red Parent Ma	aterial (F21)	) (MLRA 12	7, 147)	unless dis	sturbed or problematic.
	ayer (if observed	1):						
Туре:							Hydric Soil Present?	Yes 🔍 No 🔾
Depth (inc	:hes):						Hydric Son Present:	
Remarks:								

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

Project/Site: Sunnyside-Carrollton	City/County:	Stark County	Sampli	ng Date: 01-May-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: W-PJR-050117-07
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S	T <u>18N</u>	<b>R</b> _7W
Landform (hillslope, terrace, etc.): Hillside	Local relief (co	ncave, convex, none	concave	Slope: <u>15.0%</u> / <u>8.5</u> °
Subregion (LRR or MLRA):	<b>t.:</b> 40.738333	Long.:	-81.301565	Datum: NAD83
Soil Map Unit Name: MsD			NWI classification:	N/A
	f 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 Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	e required; c	heck all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
<ul> <li>High Water Table (A2)</li> </ul>		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): 3	
Water Table Present? Yes •	No $\bigcirc$	Depth (inches): 7	drology Present? Yes $\odot$ No $\bigcirc$
Saturation Present? Yes •	No 🔿	Depth (inches):0	drology Present? Yes $ullet$ No $igodot$
Describe Recorded Data (stream gau	uge, monitor	ing well, aerial photos, previous inspections), if ava	ailable:
Remarks:			

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

		Dominant —Species? –		Sampling Point: <u>W-PJR-050117-07</u>
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: )	% Cover	Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC:3(A)
2	0	0.0%		Total Number of Dominant
3	0	0.0%		Species Across All Strata:3(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		<b>OBL species</b> <u>10</u> <b>x 1</b> = <u>10</u>
Sapling-Sapling/Shrub Stratum (Plot size:		0.00/		FACW species x 2 =
1		0.0%		FAC species x 3 =
2	_	0.0%		FACU species $0 \times 4 = 0$
3		0.0%		UPL species $0 \times 5 = 0$
4		0.0%		Column Totals: 95 (A) 180 (B)
5		0.0%		$\frac{180}{180}$
6		0.0%		Prevalence Index = $B/A = 1.895$
7		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%		✓ Prevalence Index is $\leq$ 3.0 <sup>1</sup>
Shrub Stratum (Plot size: )	:	= Total Cover		Morphological Adaptations <sup>1</sup> (Provide supporting
1	0	0.0%		data in Remarks or on a separate sheet)
2	0	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		0.0%		<sup>1</sup> 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.
	10	10 59/		Sapling/shrub stratum – Consists of woody plants, excluding
1. Typha angustifolia		<ul><li>10.5%</li><li>✓ 26.3%</li></ul>	OBL	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Onoclea sensibilis	25		FACW	Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
3. Agrimonia parvifiora			FACW	Woody vines – Consists of all woody vines greater than 3.28 ft
4. Impatiens capensis	25	<ul><li>15.8%</li><li>✓ 26.3%</li></ul>	FACW	in height.
5. Leersia virginica		<ul><li>✓ 26.3%</li><li>○ 0.0%</li></ul>	FACVV	
6		0.0%		Five Vegetation Strata:
7	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	0.0%		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				vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size: )	95	= 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		Present? Yes No O
Remarks: (Include photo numbers here or on a separate shee	et.)			

Depth	M	latrix			Red	lox Featu					
(inches)	Color (m	oist)		Color (	moist)	%	Tvpe	Loc <sup>2</sup>	Texture	Rer	narks
0-16	10YR 5	5/1	90	10YR	5/4	10	С	Μ	Silty Clay Loam		
				u							
	·			a-	-	·					
	·					<u> </u>	- <u></u>				
			-	-	-						
pe: C=Conc	centration D=[	Depletion	RM=Red	uced Matrix	CS=Covere	ed or Coate	d Sand Gra	ins <sup>2</sup> Locat	tion: PL=Pore Lining. M=Ma	atrix	
dric Soil II		Bepletion	. nui-nou		001010						2
Histosol (A				Dark	Surface (S	57)			Indicators for Proble	ematic Hydr	ic Soils <sup>°</sup> :
Histic Epip							S8) (MLRA	147 148)	2 cm Muck (A10)	(MLRA 147)	
Black Histi				_			LRA 147, 1		Coast Prairie Redo	ox (A16)	
	Sulfide (A4)			_		Matrix (F2)		40)	(MLRA 147,148)		
	Layers (A5)				eted Matrix				Piedmont Floodpl (MLRA 136, 147)	ain Soils (F19	)
	(A10) (LRR N	)			ox Dark Su					· C	10)
	Below Dark Sur		1)			Surface (FI	7)		Very Shallow Darl		12)
	K Surface (A12)		1)		ox Depress		,		Other (Explain in	Remarks)	
							F12) (LRR	J.			
MLRA 147	ck Mineral (S1) , 148)	(LRR N,			A 136)	0 11120000 (	(2	-1			
] Sandy Gle	yed Matrix (S4)	)		🗌 Umb	ric Surface	e (F13) (ML	RA 136, 12	2)	0		
] Sandy Red				Pied	mont Flood	dplain Soils	(F19) (MLF	RA 148)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,		regetation and
] Stripped M				Red	Parent Ma	terial (F21)	(MLRA 12	7, 147)	unless dis	sturbed or pro	oblematic.
strictive La	ayer (if obser	ved):									
									Hydric Soil Present?	Yes 🖲	No 🔿
Туре:									Hydric Soli Present?	Yes 🙂	
•••	nes):										
Depth (inch	nes):										
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## 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-050117-06
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S	<b>T</b> <u>18N</u>	<b>R</b> 7W
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (co	ncave, convex, none	): none	Slope: <u>1.0%</u> / <u>0.6</u> °
Subregion (LRR or MLRA):	40.739178	Long.:	-81.302775	Datum: NAD83
Soil Map Unit Name: Wd			NWI classification:	PEM
	year? Yes • ntly disturbed? y 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?	Yes 🖲	No O		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	
Remarks:				

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 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	Depth (inches): 0	
Saturation Present? Yes • No ·	Depth (inches):0	drology Present? Yes $ullet$ No $igodot$
Describe Recorded Data (stream gauge, monitor	pring well, aerial photos, previous inspections), if av	ailable:
Remarks:		

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

		Dominant – Species? –		Sampling Point: W-PJR-050117-06
	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%		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         40         x 1 =         40
1	_	0.0%		FACW species $60 \times 2 = 120$
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>160</u> (B)
6		0.0%		Prevalence Index = B/A = 1.600
7	0	0.0%		Hydrophytic Vegetation Indicators:
8		0.0%		Rapid Test for Hydrophytic Vegetation
9		0.0%		✓ Dominance Test is > 50%
10	0	0.0%		<b>V</b> Prevalence Index is $\leq 3.0^{-1}$
Shrub Stratum (Plot size:)	0 :	= Total Cover		Morphological Adaptations $^1$ (Provide supporting
1	0	0.0%		data in Remarks or on a separate sheet)
2		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		0.0%		<sup>1</sup> 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.
	5	5.0%	OBL	Sapling/shrub stratum – Consists of woody plants, excluding
1. Typha angustifolia	45	<ul> <li>✓ 45.0%</li> </ul>	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Impatiens capensis 3. Carex vulpinoidea	35	<ul> <li>✓ 45.0 %</li> <li>✓ 35.0 %</li> </ul>	OBL	Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
4 Onoclea sensibilis	10	10.0%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft
5 Eupatorium perfoliatum	5	5.0%	FACW	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
Woody Vine Stratum (Plot size: )		= 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		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		Vegetation Present? Yes • No ·
Remarks: (Include photo numbers here or on a separate she			•	l

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

Hydric Soil Indicators:         Histosol (A1)         Histic Epipedon (A2)         Black Histic (A3)         Hydrogen Sulfide (A4)         Stratified Layers (A5)         2 cm Muck (A10) (LRR N)         Depleted Below Dark Surface         Thick Dark Surface (A12)         Sandy Muck Mineral (S1) (Lf         MLRA 147, 148)         Sandy Redox (S5)         Stripped Matrix (S6)	4/2 90 4/2 90 Depletion. RM=Redu 1) I) I) (LRR N,	Color (moist)       %         10YR       5/3       10         10	) (MLRA 147,148) RA 147, 148) 2) (LRR N,	Texture       Rema         Clay Loam	Soils <sup>3</sup> :
Type: C=Concentration. D=Dep Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surfac Thick Dark Surface (A12) Sandy Muck Mineral (S1) (Lf MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed Type: Depth (inches):	Uppletion. RM=Redu	uced Matrix, CS=Covered or Coated □ Dark Surface (S7) □ Polyvalue Below Surface (S8) □ Thin Dark Surface (S9) (MLF □ Loamy Gleyed Matrix (F2) ✓ Depleted Matrix (F3) □ Redox Dark Surface (F6) □ Depleted Dark Surface (F6) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) □ Iron-Manganese Masses (F1) MLRA 136) □ Umbric Surface (F13) (MLR/	Sand Grains <sup>2</sup> Loca (MLRA 147,148) (MLRA 147,148) (A 147, 148) (2) (LRR N,	ation: PL=Pore Lining. M=Matrix  Indicators for Problematic Hydric  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147,148)  Piedmont Floodplain Soils (F19) (MLRA 136, 147)  Very Shallow Dark Surface (TF12)	
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surfac Thick Dark Surface (A12) Sandy Muck Mineral (S1) (LI MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed Type: Depth (inches):	J) Irface (A11) 2) ) (LRR N,	<ul> <li>Dark Surface (S7)</li> <li>Polyvalue Below Surface (S8</li> <li>Thin Dark Surface (S9) (MLF</li> <li>Loamy Gleyed Matrix (F2)</li> <li>✓ Depleted Matrix (F3)</li> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> <li>Iron-Manganese Masses (F1 MLRA 136)</li> <li>Umbric Surface (F13) (MLR/</li> </ul>	) (MLRA 147,148) RA 147, 148) 2) (LRR N,	Indicators for Problematic Hydric 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147,148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12)	
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Hydric Soil Indicators:         Histosol (A1)         Histosol (A2)         Black Histic (A3)         Hydrogen Sulfide (A4)         Stratified Layers (A5)         2 cm Muck (A10) (LRR N)         Depleted Below Dark Surface         Thick Dark Surface (A12)         Sandy Muck Mineral (S1) (LI MLRA 147, 148)         Sandy Gleyed Matrix (S4)         Sandy Redox (S5)         Stripped Matrix (S6)	J) Irface (A11) 2) ) (LRR N,	<ul> <li>Dark Surface (S7)</li> <li>Polyvalue Below Surface (S8</li> <li>Thin Dark Surface (S9) (MLF</li> <li>Loamy Gleyed Matrix (F2)</li> <li>✓ Depleted Matrix (F3)</li> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> <li>Iron-Manganese Masses (F1 MLRA 136)</li> <li>Umbric Surface (F13) (MLR/</li> </ul>	) (MLRA 147,148) RA 147, 148) 2) (LRR N,	Indicators for Problematic Hydric 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147,148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12)	
Hydric Soil Indicators:         Histosol (A1)         Histosol (A2)         Black Histic (A3)         Hydrogen Sulfide (A4)         Stratified Layers (A5)         2 cm Muck (A10) (LRR N)         Depleted Below Dark Surface         Thick Dark Surface (A12)         Sandy Muck Mineral (S1) (LI         MLRA 147, 148)         Sandy Redox (S5)         Stripped Matrix (S6)	J) Irface (A11) 2) ) (LRR N,	<ul> <li>Dark Surface (S7)</li> <li>Polyvalue Below Surface (S8</li> <li>Thin Dark Surface (S9) (MLF</li> <li>Loamy Gleyed Matrix (F2)</li> <li>✓ Depleted Matrix (F3)</li> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> <li>Iron-Manganese Masses (F1 MLRA 136)</li> <li>Umbric Surface (F13) (MLR/</li> </ul>	) (MLRA 147,148) RA 147, 148) 2) (LRR N,	Indicators for Problematic Hydric 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147,148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12)	
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<ul> <li>Histic Epipedon (A2)</li> <li>Black Histic (A3)</li> <li>Hydrogen Sulfide (A4)</li> <li>Stratified Layers (A5)</li> <li>2 cm Muck (A10) (LRR N)</li> <li>Depleted Below Dark Surface</li> <li>Thick Dark Surface (A12)</li> <li>Sandy Muck Mineral (S1) (LI MLRA 147, 148)</li> <li>Sandy Gleyed Matrix (S4)</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> </ul>	rface (A11) !) ) (LRR N,	<ul> <li>Polyvalue Below Surface (S8</li> <li>Thin Dark Surface (S9) (MLF</li> <li>Loamy Gleyed Matrix (F2)</li> <li>Depleted Matrix (F3)</li> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> <li>Iron-Manganese Masses (F1 MLRA 136)</li> <li>Umbric Surface (F13) (MLRA</li> </ul>	2) (LRR N,	<ul> <li>Coast Prairie Redox (A16) (MLRA 147,148)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 136, 147)</li> <li>Very Shallow Dark Surface (TF12)</li> </ul>	2)
Black Histic (A3)         Hydrogen Sulfide (A4)         Stratified Layers (A5)         2 cm Muck (A10) (LRR N)         Depleted Below Dark Surface         Thick Dark Surface (A12)         Sandy Muck Mineral (S1) (Lf         MLRA 147, 148)         Sandy Gleyed Matrix (S4)         Sandy Redox (S5)         Stripped Matrix (S6)	rface (A11) !) ) (LRR N,	<ul> <li>☐ Thin Dark Surface (S9) (MLF</li> <li>☐ Loamy Gleyed Matrix (F2)</li> <li>✓ Depleted Matrix (F3)</li> <li>☐ Redox Dark Surface (F6)</li> <li>☐ Depleted Dark Surface (F7)</li> <li>☐ Redox Depressions (F8)</li> <li>☐ Iron-Manganese Masses (F1 MLRA 136)</li> <li>☐ Umbric Surface (F13) (MLRA</li> </ul>	2) (LRR N,	(MLRA 147,148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12	2)
<ul> <li>Hydrogen Sulfide (A4)</li> <li>Stratified Layers (A5)</li> <li>2 cm Muck (A10) (LRR N)</li> <li>Depleted Below Dark Surface</li> <li>Thick Dark Surface (A12)</li> <li>Sandy Muck Mineral (S1) (LI MLRA 147, 148)</li> <li>Sandy Gleyed Matrix (S4)</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> </ul> Restrictive Layer (if observed Type:	rface (A11) !) ) (LRR N,	<ul> <li>Loamy Gleyed Matrix (F2)</li> <li>✓ Depleted Matrix (F3)</li> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> <li>Iron-Manganese Masses (F1 MLRA 136)</li> <li>Umbric Surface (F13) (MLRA</li> </ul>	2) (LRR N,	<ul> <li>Piedmont Floodplain Soils (F19) (MLRA 136, 147)</li> <li>Very Shallow Dark Surface (TF12)</li> </ul>	2)
2 cm Muck (A10) (LRR N)     Depleted Below Dark Surface     Thick Dark Surface (A12)     Sandy Muck Mineral (S1) (Lf     MLRA 147, 148)     Sandy Gleyed Matrix (S4)     Sandy Redox (S5)     Stripped Matrix (S6)  estrictive Layer (if observed     Type: Depth (inches):	rface (A11) !) ) (LRR N,	<ul> <li>Depleted Matrix (F3)</li> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> <li>Iron-Manganese Masses (F1 MLRA 136)</li> <li>Umbric Surface (F13) (MLRA</li> </ul>		(MLRA 136, 147)	2)
2 cm Muck (A10) (LRR N)     Depleted Below Dark Surface     Thick Dark Surface (A12)     Sandy Muck Mineral (S1) (Lf     MLRA 147, 148)     Sandy Gleyed Matrix (S4)     Sandy Redox (S5)     Stripped Matrix (S6)  Restrictive Layer (if observed     Type: Depth (inches):	rface (A11) !) ) (LRR N,	<ul> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> <li>Iron-Manganese Masses (F1 MLRA 136)</li> <li>Umbric Surface (F13) (MLRA</li> </ul>		Very Shallow Dark Surface (TF12	2)
	rface (A11) !) ) (LRR N,	<ul> <li>Redox Depressions (F8)</li> <li>Iron-Manganese Masses (F1 MLRA 136)</li> <li>Umbric Surface (F13) (MLRA</li> </ul>			- /
<ul> <li>Thick Dark Surface (A12)</li> <li>Sandy Muck Mineral (S1) (Lf MLRA 147, 148)</li> <li>Sandy Gleyed Matrix (S4)</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> <li>Restrictive Layer (if observed Type:</li></ul>	2) ) (LRR N,	<ul> <li>Iron-Manganese Masses (F1 MLRA 136)</li> <li>Umbric Surface (F13) (MLRA</li> </ul>			
Sandy Muck Mineral (S1) (Lf MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	) (LRR N,	MLRA 136)			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed Type: Depth (inches):	•)	Umbric Surface (F13) (MLRA	136 122)		
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed Type: Depth (inches):	+)				
Stripped Matrix (S6) Restrictive Layer (if observed Type: Depth (inches):				<sup>3</sup> Indicators of hydrophytic veg	getation and
Restrictive Layer (if observed Type: Depth (inches):		Red Parent Material (F21) (I		wetland hydrology must be unless disturbed or probl	e present,
Type: Depth (inches):			WILKA 127, 147)		iematic.
Depth (inches):	ved):				
					$\bigcirc$
Remarks:				Hydric Soil Present? Yes •	No 🔿

## 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-050117-05
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S	80 <b>T</b> <u>18N</u>	<b>R</b> _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):	40.743830	Long.:	-81.308901	Datum: NAD83
Soil Map Unit Name: Fph4F1			NWI classification:	N/A
	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 Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of or	e 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:	0		
Surface Water Present? Yes •	) No 🔿	Depth (inches): 2	
Water Table Present? Yes •	) No 🔿	Depth (inches): 0	
Saturation Present? (includes capillary fringe) Yes	No $\bigcirc$	Depth (inches): 0	lydrology Present? Yes 🖲 No 🔾
(includes capillary fringe) Yes		Wetland H	
(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.**

			ninant cies? –		Sampling Point: <u>W-PJR-050117-05</u>
	Absolute	Rel.	Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: )	% Cover	Cov	<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:	) :	= 100	al Cover		0BL species <u>0</u> x 1 = <u>0</u>
1.			0.0%		FACW species 35 x 2 =70
2.	_		0.0%		<b>FAC speciles</b> $20 \times 3 = 60$
3.			0.0%		FACU species $0 \times 4 = 0$
4.			0.0%		UPL species x 5 =
5.			0.0%		Column Totals: <u>55</u> (A) <u>130</u> (B)
6			0.0%		Prevalence Index = $B/A = 2.364$
7			0.0%		
8.	_		0.0%		Hydrophytic Vegetation Indicators:           Rapid Test for Hydrophytic Vegetation
9			0.0%		
10			0.0%		✓ Dominance Test is > 50%
		= Tota	al Cover		✓ Prevalence Index is $\leq$ 3.0 <sup>1</sup>
<u>Shrub Stratum</u> (Plot size: ) 1	0		0.0%		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2	0		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3			0.0%		<sup>1</sup> 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	al Cover		regardless of height.
	30	$\checkmark$	54.5%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding
	20		36.4%	FAC	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. <u>Dichanthelium clandestinum</u> 3. Eupatorium perfoliatum	5		9.1%	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%	TAOW	Woody vines – Consists of all woody vines greater than 3.28 ft
	0	$\square$	0.0%		in height.
5		$\square$	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
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
		= Tota	al 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	$\square$	0.0%		Vegetation
	0	= Tot	tal Cover		Present? Yes 🔍 No 🖯
Remarks: (Include photo numbers here or on a separate shee	et)				

Depth (incles)         Matrix         Redox Features           0-16         10YR         4/1         90         10YR         6/6         10         C         M         Strip Clay Learn           0-16         10YR         4/1         90         10YR         6/6         10         C         M         Strip Clay Learn           0-16         10YR         4/1         90         10YR         6/6         10         C         M         Strip Clay Learn           0<
(inches)         Color (moist)         %         Type         Loc2         Texture         Remarks           0-16         10YR         4/1         90         10YR         6/6         10         C         M         Silly Clay Loam           0-16         10YR         4/1         90         10YR         6/6         10         C         M         Silly Clay Loam           0         1         1         1         0         C         M         Silly Clay Loam           0         1
1       Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains       *Location: PL=Pore Lining. M=Matrix         Hydrof Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)         Histosol (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)         Biack Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)         Hydrogen Suffide (A4)       Loamy Gleyed Matrix (F2)         Statified Layers (A5)       Ø Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Depleted Natrix (F3)         Depleted Below Dark Surface (A12)       Redox Dark Surface (F12) (LRR N, MLRA 136, 122)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122)         Sandy Redox (S5)       Pledmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         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) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         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) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Wtery Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148)       Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
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Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         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) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Matrix (F3)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
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) (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) (MLRA 136, 147)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)       □ 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)       □ Tron-Manganese Masses (F12) (LRR N, MLRA 147, 148)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       □ Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetation and wetland hydrology must be present,
Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147,148)       2 cm Muck (A10) (MLRA 147)         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) (MLRA 136, 147)         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)       Iron-Manganese Masses (F12) (LRR N, MLRA 136)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetation and wetland hydrology must be present,
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) (MLRA 136, 147)         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)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)       3 Indicators of hydrophytic vegetation and wetland hydrology must be present,
black Histic (A3)       Imin Dark sturace (37) (MLRA 147, 148)       (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         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)       Iron-Manganese Masses (F12) (LRR N, MLRA 136)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetation and wetland hydrology must be present,
Stratified Layers (A5)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19)         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)       Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetation and wetland hydrology must be present,
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 147, 148)       Iron-Manganese Masses (F12) (LRR N, MLRA 136)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetation and wetland hydrology must be present,
Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Depressions (F8)         Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148)       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)
Image: Solution Sufficient Sufface (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)
<ul> <li>Instruction of (ML)</li> <li>Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148)</li> <li>Iron-Manganese Masses (F12) (LRR N, MLRA 136)</li> <li>Sandy Gleyed Matrix (S4)</li> <li>Umbric Surface (F13) (MLRA 136, 122)</li> <li>Sandy Redox (S5)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 148)</li> <li>Indicators of hydrophytic vegetation and wetland hydrology must be present,</li> </ul>
MLRA 147, 148)       MLRA 136)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122)         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 148)
Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122)         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 148)
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Sandy Redux (SS) — Fleuholit Hoodplain Solis (119) (NEXA 146) wetland hydrology must be present,
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.
Restrictive Layer (if observed):
Type:
Depth (inches): Yes      No
Remarks:

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Sunnyside-Carrollton	City/County: Stark County	Sampling Date: 01-May-17
Applicant/Owner: AEP	State: OH	Sampling Point: W-PJR-050117-04
Investigator(s): PJR, LCB	Section, Township, Range: S	30 <b>T</b> <u>18N</u> <b>R</b> <u>7W</u>
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none	e): Slope: / °
Subregion (LRR or MLRA):	40.746464 <b>Long.:</b>	-81.312701 Datum: NAD83
Soil Map Unit Name: MsD		NWI classification: N/A
	ly disturbed? Are "Normal Cir	plain in Remarks.) cumstances" present? Yes 💿 No 🔾 lain 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 O	within a Wetland?	
Remarks:				
PEM wetland				

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one re	equired; 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 Ro	ots (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 (B	7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-neutral Test (D5)
Field Observations:	$\sim$	
Surface Water Present? Yes •	No Depth (inches): 4	
Water Table Present? Yes •	No Depth (inches): 0	Wetland Hydrology Present? Yes   No
Saturation Present? Yes •	No ○ Depth (inches):0	Wetland Hydrology Present? Yes  No  V
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, previous inspe	ctions), if available:
Remarks:		

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

		Dominant – Species? –		Sampling Point: <u>W-PJR-050117-04</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)
6		0.0%		Prevalence Index worksheet:
7	0	0.0%		Total % Cover of: Multiply by:
8	0 -	= Total Cover		<b>OBL species</b> $65 \times 1 = 65$
Sapling-Sapling/Shrub Stratum (Plot size:	)			<b>FACW speciles</b> $10 \times 2 = 20$
1	0	0.0%		
2	0	0.0%		
3	0	0.0%		
4	0	0.0%		
5	0	0.0%		Column Totals: (A) (B)
6	0	0.0%		Prevalence Index = B/A = <u>1.133</u>
7	0	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:)		= Total Cover		Morphological Adaptations <sup>1</sup> (Provide supporting
1	0	0.0%		data in Remarks or on a separate sheet)
2	0	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3	0	0.0%		<sup>1</sup> 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:
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 Cover		regardless of height.
1. Typha angustifolia	5	5.6%	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	10	11.1%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Persicaria sagittata	60	66.7%	OBL	regardless of size, and all other plants less than 3.28 ft tall.
4	15	16.7%		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 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	0.0%		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 =	= 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%		Hydrophytic
6	0	0.0%		Vegetation
	0	= Total Cove	r	Present? Yes Vo U
Remarks: (Include photo numbers here or on a separate she	et )			

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

Profile Descr	iption: (Describe to	the depth n				nfirm the a	absence of indicators.)		
Depth <u>Matrix</u>				dox Featı			<b>_</b>	Barrada	
(inches) 0-16	Color (moist) 7.5YR 4/1	95	Color (moist) 5YR 5/4	 5	_ <b>Tvpe</b> <sup>1</sup> C	Loc <sup>2</sup>	Texture Silt Loam	Remarks	
0-10	7.5TK 4/1								
								·	
-				_				•	
1 Turney C. Com	contration D Doplatic	DM Dodu	and Matrix CS. Cover	od or Coat	od Sand Cra	inc 21.000	tion: PL=Pore Lining. M=M	atrix	
Hydric Soil I		DII. RIVI=Redu	ced Matrix, CS=COVer	ed of Coat	eu sanu Gra	IINS ~LOCA			
Histosol (			Dark Surface (	(72)			Indicators for Proble	ematic Hydric Soils <sup>3</sup> :	
_	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)	
	Sulfide (A4)		Loamy Gleyed			10)	(MLRA 147,148)		
	Layers (A5)		Depleted Matri		/		Piedmont Floodpl (MLRA 136, 147)		
	k (A10) (LRR N)		Redox Dark Su				Very Shallow Dar		
	Below Dark Surface (A	(11)	Depleted Dark	Surface (F	7)		Other (Explain in		
	k Surface (A12)		Redox Depress	sions (F8)				Kemarks)	
Sandy Mu MLRA 147	uck Mineral (S1) (LRR 1 7, 148)	Ν,	Iron-Manganes MLRA 136)	se Masses	(F12) (LRR	N,			
_	eyed Matrix (S4)		Umbric Surfac	e (F13) (M	LRA 136, 12	2)			
Sandy Re			Piedmont Floo	dplain Soils	s (F19) (MLI	RA 148)	<sup>3</sup> Indicators of wetland by:	hydrophytic vegetation and drology must be present,	
Stripped N	Matrix (S6)		Red Parent Ma	nterial (F21	) (MLRA 12	7, 147)	unless di	sturbed or problematic.	
De stuistive lu									
Type:	ayer (if observed):								
Depth (inc	hes).						Hydric Soil Present?	Yes 🔍 No 🔾	
Remarks:	nes)								
Remarks:									

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

Project/Site:	Sunnyside-Carrollton			City/County:	Stark Count	y	Sampli	ng Date: 01-May-17
Applicant/Owner	r: AEP				State:	ОН	Sampling Poir	nt: W-PJR-050117-03
Investigator(s):	PJR, LCB			Section, Tow	nship, Range	e:S	25 <b>T</b> _10N	<b>R</b> 8W
Landform (hillslo	ppe, 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.:	40.752514		Long.:	-81.320313	Datum: NAD83
Soil Map Unit Na	me: LaD						NWI classification:	N/A
Are climatic/hyd 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?	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				

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of on	e 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 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): 2	
Water Table Present? Yes •	No $\bigcirc$	Depth (inches):1	
Saturation Present? (includes capillary fringe) Yes •	$_{\rm No}$ O	Depth (inches): 0	ydrology Present? Yes 🖲 No 🔾
(includes capillary fringe) Yes		Depth (inches): 0 Wetland Hy 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 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: <u>W-PJR-050117-03</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%		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 Cove	r	OBL species x 1 =
1		0.0%		<b>FACW species x 2 =</b> 150
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 = $B/A = 2.000$
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 Cove	r	✓ Prevalence Index is ≤3.0 <sup>1</sup>
<u>Shrub Stratum</u> (Plot size: ) 1	0	0.0%	-	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2	0	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		0.0%		<sup>1</sup> 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	r	(7.6 cm) or more in diameter at breast height (DBH), regardless of height.
	10	13.3%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding
Phalaris arundinacea     Impatiens capensis	65	86.7%	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	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
	0	0.0%		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.
12		0.0%		Shrub stratum – Consists of woody plants, excluding woody
		= Total Cove	r	vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size:)		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
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	er	
Remarks: (Include photo numbers here or on a separate she	et.)			

Depth (inches)         -           0-16         -	Color (moist) 10YR 5/1	<b>%</b> 90	Color (moist)	<b>%</b> 10	C	Loc <sup>2</sup>	Texture Clay Loam	Remarks
0-16	10YR 5/1	90	10YR 5/6	10	С	Μ	Clay Loam	
						-		
,			n	-	-			
	p						,, ,	
Type: C=Conce	entration. D=Depletio	n. RM=Redu	ced Matrix. CS=Cover	ed or Coate	d Sand Gra	ins <sup>2</sup> Loca	tion: PL=Pore Lining. M=Ma	atrix
ydric Soil In								
Histosol (A			Dark Surface (	\$7)			Indicators for Proble	-
Histic Epipe			Polyvalue Belo		S8) (MI RA	147,148)	2 cm Muck (A10)	(MLRA 147)
Black Histic			Thin Dark Surf				Coast Prairie Redo	ox (A16)
Hydrogen S			Loamy Gleyed			,	(MLRA 147,148)	
Stratified La			Depleted Matri				Piedmont Floodpla (MLRA 136, 147)	ain Soils (F19)
	(A10) (LRR N)		Redox Dark Su	• •			Very Shallow Dark	(Surface (TE12)
_	elow Dark Surface (A	11)	Depleted Dark		7)			
	Surface (A12)	,	Redox Depress		,		Other (Explain in	Remarks)
_	k Mineral (S1) (LRR N		Iron-Manganes		F12) (LRR I	١,		
MLRA 147,	148)	,	MLRA 136)					
Sandy Gley	ed Matrix (S4)		Umbric Surface	e (F13) (ML	.RA 136, 12	2)	3	
Sandy Redo	ox (S5)		Piedmont Floo	dplain Soils	(F19) (MLF	A 148)	<sup>3</sup> Indicators of wetland hyd	hydrophytic vegetation and rology must be present,
Stripped Ma	atrix (S6)		Red Parent Ma	iterial (F21)	(MLRA 127	', 147)		sturbed or problematic.
	yer (if observed):							
Туре:							Hydric Soil Present?	Yes 🔍 No 🔾
	es):							100 - 110 -
emarks:								

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

Project/Site:	Sunnyside-Carrollton			City/County:	Stark Count	у	Sampli	ng Date: 01-May-17
Applicant/Owne	r: AEP				State:	OH	Sampling Poin	nt: W-PJR-050117-02
Investigator(s):	PJR, LCB			Section, Tow	nship, Range	e: S	24 <b>T</b> _10N	<b>R</b> 8W
Landform (hillsl	ope, terrace, etc.):	Depression		Local relief (co	ncave, conv	ex, none	concave	Slope: / °
Subregion (LRR	or MLRA):		Lat.:	40.757104		Long.:	-81.325307	Datum: NAD83
Soil Map Unit Na	me: FcB						NWI classification:	N/A
Are climatic/hyd Are Vegetation Are Vegetation	Irologic conditions o	on the site typical for th , or Hydrology , or Hydrology	significant	ear? Yes ly disturbed? problematic?	Are "No	rmal Cir	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?	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; 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 Aeria	al Imagery (I	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): 3	
Water Table Present?	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe)	$_{\rm Yes}$ $\bigcirc$	No 🖲	Wetland H	lydrology Present? Yes 🖲 No 🔾
(includes capillary fringe)			Depth (inches): ring well, aerial photos, previous inspections), if a	
(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):	
(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):	
(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-050117-02</u>
	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: )	L-		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%		Prevalence Index worksheet:
7	0	0.0%		Total % Cover of: Multiply by:
8	0 .	= Total Cover		<b>OBL speci es</b> $55 \times 1 = 55$
Sapling-Sapling/Shrub Stratum (Plot size:	)			
1	0	0.0%		
2	0	0.0%		
3	0	0.0%		FACU species $15 \times 4 = 60$
4	0	0.0%		UPL species $\underbrace{0}$ x 5 = $\underbrace{0}$
5	0	0.0%		Column Totals: <u>100</u> (A) <u>175</u> (B)
6	0	0.0%		Prevalence Index = $B/A = 1.750$
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 <sup>1</sup>
_Shrub Stratum (Plot size: )		= Total Cover		Morphological Adaptations <sup>1</sup> (Provide supporting
1	0	0.0%		data in Remarks or on a separate sheet)
2		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		0.0%		<sup>1</sup> 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:)	:	= Total Cover		regardless of height.
1. Leersia oryzoides	55	✓ 55.0%	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. Lysimachia nummularia	30	30.0%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Festuca arundinacea	15	15.0%	FACU	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).
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 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%		Woody vines – Consists of all woody vines, regardless of
4		0.0%		height.
5	0	0.0%		Hudronkutia
6.	0	0.0%		Hydrophytic Vegetation
	0	= Total Cove	r	Present? Yes No
Remarks: (Include photo numbers here or on a separate she	et )			

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

Wetland	49

Profile Descr	ription: (Describe to	the depth	needed to docume	ent the indi	cator or co	nfirm the a	absence of indicators.)			
Depth	Matrix									
(inches)	Color (moist)	%	Color (moist)		1	Loc <sup>2</sup>	Texture	Remarks		
0-3	10YR 4/2	90	10YR 5/6	10	C	M	Silty Clay Loam			
3-16	10YR 5/2	85	10YR 5/6	15	С	Μ	Silty Clay Loam			
								•		
								·		
<sup>1</sup> Type: C=Con	centration D=Depletic	on RM=Red	uced Matrix CS=Cov	ered or Coat	ted Sand Gra	ins <sup>2</sup> loca	tion: PL=Pore Lining. M=M	atrix		
Hydric Soil 1		JII. KIVI-Keu					-			
Histosol (			Dark Surface	o (67)			Indicators for Proble	ematic Hydric Soils <sup>3</sup> :		
	,		Polyvalue Be			147 140)	2 cm Muck (A10)	(MLRA 147)		
Black Hist	pedon (A2)		Thin Dark Su				Coast Prairie Redox (A16)			
	n Sulfide (A4)					48)	(MLRA 147,148)			
			Loamy Gleye		2)		Piedmont Floodpl			
	Stratified Layers (A5)          ✓ Depleted Matrix (F3)        2 cm Muck (A10) (LRR N)          Redox Dark Surface (F6)				(MLRA 136, 147)					
						Very Shallow Dark Surface (TF12)				
		Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks)						Remarks)		
	Dark Surface (A12) Redox Depressions (F8)									
	RA 147, 148) MLRA 136)					Ν,				
Sandy Gle	eyed Matrix (S4)		Umbric Surf	ace (F13) (N	ILRA 136, 12	2)	3			
Sandy Re	edox (S5)		Piedmont Fl	oodplain Soil	ls (F19) (MLF	RA 148)	<sup>o</sup> Indicators of wetland hyd	hydrophytic vegetation and drology must be present,		
Stripped I	Matrix (S6)		Red Parent	Material (F21	1) (MLRA 12	7, 147)		sturbed or problematic.		
Doctrictivo I	ever (if cheering).									
	ayer (if observed):									
Туре:							Hydric Soil Present?	Yes 💿 No 🔿		
Depth (inc	ches):									
Remarks:										
1										

I

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

Project/Site: Sunnyside-Carrollton	City/County:	Stark County	Samplin	ing Date: 01-May-17		
Applicant/Owner: AEP		State: OH	Sampling Poin	nt: W-PJR-050117-01		
Investigator(s): PJR, LCB	Section, Town	ship, Range: S 2	4 <b>T</b> _10N	<b>R</b> _8W		
Landform (hillslope, terrace, etc.): Ditch	Local relief (con	cave, convex, none)	: concave	Slope: <u>0.0%</u> / <u>0.0</u> °		
Subregion (LRR or MLRA): LRR N Lat.	40.757515	Long.:	-81.326383	Datum: NAD83		
Soil Map Unit Name: FcB			NWI classification:	N/A		
Are climatic/hydrologic conditions on the site typical for this time of y	/ear? Yes 🖲 N	lo $\bigcirc$ (If no, exp	ain in Remarks.)			
Are Vegetation , Soil , or Hydrology significant	ntly disturbed?	Are "Normal Circ	umstances" present?	Yes $$ No $\bigcirc$		
Are Vegetation, Soil, or Hydrology naturally	problematic?	(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					

Wetland Hydrology Indicato	rs:			_Secondary Indicators (minimum of two required)
Primary Indicators (minimu	m of one	required; a	heck all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
<ul> <li>High Water Table (A2)</li> </ul>			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):4	
Water Table Present?	Yes 🖲	No $\bigcirc$	Depth (inches): 0	Hydrology Present? Yes 💿 No 🔿
Saturation Present? (includes capillary fringe)	Yes 🖲	$_{\rm No}$ O	Depth (inches): 0	Hydrology Present? Yes 🔍 No 🔾
	eam gaug	je, monitoi	ing well, aerial photos, previous inspections), if	available:
Remarks:				

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

·····, ·····, ·····, ·····,			minant cies? –		Sampling Point: <u>W-PJR-050117-01</u>
	Absolute	Rel	.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Cov	<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%		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	<u> </u>	0.0%		Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size:	)	= Tot	al Cover		OBL species x 1 =
1			0.0%		<b>FACW species</b> <u>85</u> <b>x 2</b> = <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 x 5 =
5.			0.0%		Column Totals:85(A)170(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		$\square$	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%		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2			0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3			0.0%		<sup>1</sup> 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	= Tot	al Cover		regardless of height.
<u> </u>	35		41.2%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding
1. Leersia virginica     2. Phalaris arundinacea	<u>50</u>		58.8%	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			0.0%		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		$\square$	0.0%		in height.
6			0.0%		
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).
9 10.			0.0%		Sapling stratum – Consists of woody plants, excluding woody
			0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
11	0		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:)					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	$\square_{-}$	0.0%		Vegetation
	0	= Tot	tal Cove	r	Present? Yes INO U
Remarks: (Include photo numbers here or on a separate she	et.)				

Depth	Matrix		Re	dox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 4/1	90	7.5YR 4/6	10	С	M	Silt Loam	
	p p				-			·•
							-	· 9
	·							· •
	u u		·					
								1
Type: C=Conc	entration. D=Depletion	n. RM=Redu	ced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins <sup>2</sup> Loca	tion: PL=Pore Lining. M=N	latrix
lydric Soil II								
Histosol (A			Dark Surface (	S7)			_	ematic Hydric Soils <sup>3</sup> :
Histic Epip	•		Polyvalue Belo		(MLRA	147,148)	2 cm Muck (A10)	(MLRA 147)
Black Histi			Thin Dark Surf				Coast Prairie Red	ox (A16)
_	Sulfide (A4)		Loamy Gleyed			,	(MLRA 147,148)	
	ayers (A5)		Depleted Matri				Piedmont Floodp (MLRA 136, 147)	lain Soils (F19)
2 cm Muck	(A10) (LRR N)		Redox Dark Su				Very Shallow Dar	
Depleted E	Below Dark Surface (A1	1)	Depleted Dark	Surface (F	7)		Other (Explain in	. ,
	Surface (A12)	,	Redox Depress	ions (F8)				Kennarks)
_	ck Mineral (S1) (LRR N	,	Iron-Manganes MLRA 136)	e Masses (	F12) (LRR	Ν,		
_	yed Matrix (S4)		Umbric Surface	e (F13) (ML	.RA 136, 12	2)		
Sandy Red			Piedmont Floo	dplain Soils	(F19) (MLI	RA 148)	<sup>3</sup> Indicators of	hydrophytic vegetation and
Stripped M			Red Parent Ma				wetland hy unless di	drology must be present, sturbed or problematic.
	yer (if observed):							
Туре:							Hydric Soil Present?	Yes 🔍 No 🔾
Depth (inch	nes):						Hydric Soll Present?	Yes $\bigcirc$ No $\bigcirc$
Remarks:								

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

Project/Site: Carrollton-Sunnyside	City/County:	Stark County	Sampling Date: 27-Apr-17			
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: W-PJR-042717-05		
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S	<b>T</b> 10N	<b>R</b> 8W		
Landform (hillslope, terrace, etc.): Ditch	Local relief (co	ncave, convex, none	concave	Slope: <u>2.0%</u> / <u>1.1</u> °		
Subregion (LRR or MLRA):	40.758489	Long.:	-81.326980	Datum: NAD83		
Soil Map Unit Name: FcA			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	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 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 In	magery (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? Ye	es 🔍 No 🔾	Depth (inches):1	
Water Table Present? Ye	es 💿 No 🔾	Depth (inches):4	Hydrology Present? Yes  No
0 I II D IO	~ ~	Wetland I	Hydrology Present? Yes 🔍 No 🔾
Saturation Present? (includes capillary fringe) Ye	es 🔍 No 🔾	Depth (inches): 0	, <b></b> .
(includes capillary fringe) Ye		Depth (inches):0 oring well, aerial photos, previous inspections), if a	
(includes capillary fringe) Ye		Depth (inches): 0	
(includes capillary fringe) Ye		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 0	

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

Species? Rel.Stratum       Indicator Status       Dominance Test worksheet:         1.       0       0.0%       Number of Dominant Species That are OBL, FACW, or FAC:       3         2.       0       0.0%       Total Number of Dominant Species Across All Strata:       3       (A)         3.       0       0.0%       Total Number of Dominant Species Across All Strata:       3       (B)         4.       0       0.0%       Percent of dominant Species That Are OBL, FACW, or FAC:       100.0%       (A/B)         5.       0       0.0%       Percent of dominant Species That Are OBL, FACW, or FAC:       100.0%       (A/B)         7.       0       0.0%       Prevalence Index worksheet:       0       0.0%       (A/B)         8.       0       0.0%       Prevalence Index worksheet:       0       0       0.0%       Total % Cover of:       Multiply by:         8.       0       0.0%       0       0.0%       Fotal % Cover of:       Multiply by:       0         Sapling-Sapling/Shrub Stratum       (Plot size:       )       0       0.0%       FACW species       75       x 2 =       150	
1.00.0%That are OBL, FACW, or FAC:3(A)2.00.0%That are OBL, FACW, or FAC: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)6.00.0%Percent of dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)7.00.0%Prevalence Index worksheet:100.0%(A/B)8.00.0%Total % Cover of:Multiply by:0Sapling-Sapling/Shrub Stratum(Plot size:)0= Total Cover0x 1 =0FACW species75x 2 =150150150150150150	
1.       0       0.0%       Total Number of Dominant         2.       0       0.0%       Total Number of Dominant         3.       0       0.0%       Percent of dominant Species         4.       0       0.0%       Percent of dominant Species         5.       0       0.0%       Percent of dominant Species         6.       0       0.0%       Prevalence Index worksheet:         8.       0       0.0%       O         Sapling-Sapling/Shrub Stratum       (Plot size:)       0       = Total Cover         Galary Species       0       0       0       X 1 =         6.       0       0.0%       Secies       Total % Cover of:       Multiply by:         8.       0       0.0%       Secies       0       X 1 =       0         FACW species       75       X 2 =       150	
2.       0       0.0%       Total Number of Dominant         3.       0       0.0%       Species Across All Strata:       3       (B)         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%       OBL species       0       x 1 =       0         Sapling-Sapling/Shrub Stratum       (Plot size:       )       0       = Total Cover       OBL species       75       x 2 =       150	
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:       100.0%       (A/B)         7.       0       0.0%       Prevalence Index worksheet:       0       0.0%       0         8.       0       0.0%       O       0.0%       Total % Cover of:       Multiply by:         Sapling-Sapling/Shrub Stratum       (Plot size:       )       0       = Total Cover       0       0       x 1 =       0         FACW species       75       x 2 =       150       150       150	
0 $0$	
5. $0$	
O.       O.       O.       Prevalence Index worksheet:         7.       0       0.0%       Prevalence Index worksheet:         8.       0       0.0%       OBL specilies       0         Sapling-Sapling/Shrub Stratum       (Plot size:)       0       = Total Cover       OBL specilies       0       x 1 = 0         FACW specilies       75       x 2 = 150	
0       0       0 $Total % Cover of:$ Multiply by:         Sapling-Sapling/Shrub Stratum       (Plot size:)       0       = Total Cover       OBL speciles       0       x 1 = 0         FACW speciles       75       x 2 = 150	
Sapling-Sapling/Shrub Stratum       (Plot size:) $0$ = Total Cover       OBL speciles $0$ x 1 = 0         FACW speciles       75       x 2 = 150	
Sapling-Sapling/Shrub Stratum (Plot size:)	
$\square$ <b>IFACW SDECLES</b> /5 X Z = 150	
1 0 0.0%	
<b>FAC species</b> $35 \times 3 = 105$	
$3. \qquad 0 \qquad 0.0\% \qquad FACU \text{ specilies } 0 \qquad x \ 4 = 0$	
4 $0$ $0$ $0$ $0$ UPL species $0$ x 5 = $0$	
5 0 □ 0.0% Column Totals: 110 (A) 255 (B)	
6 0	
7 0 0.0% Hydrophytic Vegetation Indicators:	
8 $0$ $0.0\%$ Rapid Test for Hydrophytic Vegetation	
9	
10 $0$ $0.0\%$ Prevalence Index is $\leq 3.0^{-1}$	
Shrub Stratum (Plot size:) = Total Cover Morphological Adaptations <sup>1</sup> (Provide supporting	
1. Viburnum recognitum       10       10.0%       FAC       data in Remarks or on a separate sheet)	
2.       0       0.0%       Image: Problematic Hydrophytic Vegetation 1 (Explain)	
3.       0       0.0%       1 Indicators of hydric soil and wetland hydrology must	Ł
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:	
- Iree stratum – Consists of woody plants, excluding vines, 3	in.
<i>I</i> . <u>I</u> . <u>I</u> .       (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Herb Stratum       (Plot size:) <u>I</u> .       II.       = Total Cover	
Sapling/shrub stratum – Consists of woody plants, excludin	
2. Equivitant division of circo and all other plants loss than 2.29 ft tall	nts,
0 Woody vines - Consists of all woody vines greater than 3.28	8 ft
in height.	
0 $0$ $0.0%$ Five Vegetation Strata:	
7.	20
9 0 0 Consists of words plants, excluding words	
Sapling stratum – Consists of woody plants, excluding wood	dy
10.       0       0.0%       vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.         11.       0       0.0%       than 3 in. (7.6 cm) DBH.	
$_{10}$ Shrub stratum – Consists of woody plants, excluding woody	у
100 = Total Cover	
Woody Vine Stratum       (Plot size:       )       100       Plot and cover       Herb stratum – Consists of all herbaceous (non-woody) plar including herbaceous vines, regardless of size, and woody         1       0       0.0%       0.0%       0.0%       0.0%	nts,
1 species, except woody vines, less than approximately 3 ft (1	1
2 $0$ $0$ $0.0\%$ m) in height.	
3 $0$ $0$ $0.0\%$ Woody vines – Consists of all woody vines, regardless of height.	
5 $0$ $\Box$ 0.0% Hydrophytic	
6 $0$ $\Box$ 0.0% Vegetation Present? Yes $\bullet$ No $\bigcirc$	
= Total Cover Present: 100 Present: 10	

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

Depth		Matrix			Re	dox Featu	ures			
(inches)	Color	(moist)	%	Colo	r (moist)	%	Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR	4/2	90	10YR	4/4	10	С	М	Silty Clay Loam	
4-16		5/2	90	10YR	4/6	10	С	M	Silty Clay Loam	
4-10				TUTK	4/0					
	-			-						
<sup>1</sup> Type: C=Con	centration.	D=Depletio	n. RM=Red	uced Matrix	, CS=Cover	ed or Coat	ed Sand Gra	ains <sup>2</sup> Locat	tion: PL=Pore Lining. M=Ma	atrix
Hydric Soil 1	Indicators:								Indicators for Proble	matic Hydric Soils <sup>3</sup> :
Histosol (	A1)			Da	ark Surface	(S7)				-
_	pedon (A2)					. ,	(S8) (MLRA	147,148)	2 cm Muck (A10)	(MLRA 147)
Black Hist							(00) (menu ( MLRA 147, 1		Coast Prairie Redo	эх (A16)
	Sulfide (A4	<b>`</b>		_				140)	(MLRA 147,148)	
					amy Gleyed		.)		Piedmont Floodpla	ain Soils (F19)
	Layers (A5)				pleted Matr				(MLRA 136, 147)	
_	k (A10) (LR				dox Dark Su				Very Shallow Dark	< Surface (TF12)
Depleted	Below Dark	Surface (A	11)		pleted Dark		7)		Other (Explain in	Remarks)
Thick Dar	k Surface (A	12)		L Re	dox Depres	sions (F8)				
Sandy Mu MLRA 147	ick Mineral ( 7, 148)	(S1) (LRR N	1,		on-Mangane .RA 136)	se Masses	(F12) (LRR	N,		
_	eyed Matrix	(\$4)		IU 🗌	nbric Surfac	e (F13) (M	LRA 136, 12	22)		
Sandy Re		(34)					s (F19) (MLI		<sup>3</sup> Indicators of	hydrophytic vegetation and
				_						Irology must be present,
	Matrix (S6)				ed Parent Ma	aterial (F2 I	) (MLRA 12	7, 147)	uniess dis	sturbed or problematic.
Restrictive L	aver (if ob	served):								
Type:										
	hes):								Hydric Soil Present?	Yes 🔍 No 🔾
	nes):								-	
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: Carrollton-Sunnyside	City/County:	Stark County	Samplii	ing Date: 27-Apr-17		
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: W-PJR-042717-06		
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S	24 <b>T</b> _10N	<b>R</b> 8W		
Landform (hillslope, terrace, etc.): Depression	Local relief (co	ncave, convex, none	): concave	Slope: / °		
Subregion (LRR or MLRA):	40.760849	Long.:	-81.331039	Datum: NAD83		
Soil Map Unit Name: FcA			NWI classification:	N/A		
	year? Yes • ntly disturbed? y 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 ()	No O No O	Is the Sampled Area within a Wetland?	Yes $\bullet$ No $\bigcirc$	
Wetland Hydrology Present?	Yes 🖲	Νο 〇	WITHIN a Wetlands		
Remarks:					
PEM wetland					

Wetland Hydrology Indicators	'S:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum	n of one re	equired; 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 I	Imagery (B	7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)				Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-neutral Test (D5)
Field Observations:	0	0		
Surface Water Present? Y	Yes 🖲	No 🔿	Depth (inches): 3	
Water Table Present?	Yes $\bigcirc$	No 🖲	Depth (inches):	drology Present? Yes $\odot$ No $\bigcirc$
Saturation Present? (includes capillary fringe) Y	$_{ m res}$ $\bigcirc$	No 🖲	Depth (inches):	drology Present? Yes 🔍 No 🔾
(includes capillary fringe)			Depth (inches): ng well, aerial photos, previous inspections), if ava	
(includes capillary fringe)			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe)			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	
(includes capillary fringe) Y Describe Recorded Data (stre			Depth (inches):	

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

		Dominant — Species? -		Sampling Point: <u>W-PJR-042717-06</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%		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 x 1 =
1.		0.0%		FACW species $0 \times 2 = 0$
2.	_	0.0%		<b>FAC speciles</b> $5 \times 3 = 15$
3		0.0%		FACU species $0 \times 4 = 0$
4.		0.0%		UPL species x 5 =
5.		0.0%		Column Totals: <u>5</u> (A) <u>15</u> (B)
6		0.0%		Prevalence Index = B/A = 3.000
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		<b>V</b> Prevalence Index is $\leq 3.0^{-1}$
<u>Shrub Stratum</u> (Plot size: ) 1	0	0.0%		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2	0	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		0.0%		<sup>1</sup> 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.
	5	100.0%	FAC	Sapling/shrub stratum – Consists of woody plants, excluding
1. Rumex crispus       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
	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
	0	0.0%		diameter at breast height (DBH).
9	0	0.0%		Sapling stratum - Consists of woody plants, excluding woody
		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.
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
	0	= Total Cove	r	Present? Yes INO U
Remarks: (Include photo numbers here or on a separate she	et.)			

Profile Descr	iption: (Describe to	the depth I	needed to document	the indic	ator or co	nfirm the a	bsence of indicators.)	
Depth	Matrix			dox Featu				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 5/2	90	10YR 5/6	. 10	C	M	Silty Clay Loam	
				-	_			
		·						
							,	
<sup>1</sup> Type: C=Con	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covere	ed or Coate	d Sand Gra	ins <sup>2</sup> Locat	tion: PL=Pore Lining. M=M	atrix
Hydric Soil 1	Indicators:						Indicators for Proble	ematic Hydric Soils <sup>3</sup> :
Histosol (	A1)		Dark Surface (	S7)			2 cm Muck (A10)	(MI RA 147)
Histic Epi	pedon (A2)		Polyvalue Belov				Coast Prairie Redo	
Black Hist	tic (A3)		Thin Dark Surf	ace (S9) (M	ILRA 147, 1	48)	(MLRA 147,148)	JX (A16)
	Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Piedmont Floodpl	ain Soils (F19)
	Layers (A5)		Depleted Matri				(MLRA 136, 147)	
2 cm Muc	k (A10) (LRR N)		Redox Dark Su				Very Shallow Darl	< Surface (TF12)
Depleted	Below Dark Surface (A	11)	Depleted Dark		7)		Other (Explain in	Remarks)
Thick Dar	k Surface (A12)		Redox Depress					
Sandy Mu	ick Mineral (S1) (LRR N	Ι,	Iron-Manganes MLRA 136)	e Masses (	F12) (LRR	Ν,		
MLRA 147				(E12) (MI	DA 126 12	221		
	eyed Matrix (S4)						<sup>3</sup> Indicators of	hydrophytic vegetation and
Sandy Re			Piedmont Floo				wetland hyd	rology must be present,
	Matrix (S6)		Red Parent Ma	terial (F21)	(MLRA 12	7, 147)	unless dis	sturbed or problematic.
Restrictive L	ayer (if observed):							
Туре:								$\sim$
Depth (inc	hes):						Hydric Soil Present?	Yes $lacksquare$ No $igodom$
Remarks:							L	

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

Project/Site: Carrollton-Sunnyside	City/County: Stark	Samplin	g Date: 25-Apr-17
Applicant/Owner: AEP	State: OH	Sampling Poin	t: W-PJR-042517-06
Investigator(s): PJR, LCB	Section, Township, Range: S	23 <b>T</b> _10N	<b>R</b> 8W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, non	e): concave	Slope: <u>0.0%</u> / <u>0.0</u> °
Subregion (LRR or MLRA):	40.762286 Long.:	-81.332846	Datum: NAD83
Soil Map Unit Name: FcA		NWI classification:	N/A
Are climatic/hydrologic conditions on the site typical for this time of ye	Υ, Υ	plain in Remarks.)	
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Normal Ci	cumstances" present?	Yes 🔍 No 🔾
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, exp	lain 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 Yes Yes	No	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks: PEM/PSS wetland				

Wetland Hydrology Indicato	ors:			Secondary Indicators (minimum of two required)
Primary Indicators (minimu	m of one	required; o	check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
<ul> <li>High Water Table (A2)</li> </ul>			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	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 🖲	No 🔿	Depth (inches): 12	
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	eam gaug	ge, monito	ring well, aerial photos, previous inspections), if a	vailable:
Remarks:				

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

		Dominant —Species? —		Sampling Point: <u>W-PJR-042517-06</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%		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		0BL species <u>0</u> x 1 = <u>0</u>
1		0.0%		FACW species Y5 x 2 =190
2	_	0.0%		<b>FAC speci es</b> 45 <b>x 3 =</b> 135
3.		0.0%		FACU species $0 \times 4 = 0$
4.		0.0%		UPL species $0 \times 5 = 0$
5.	_	0.0%		Column Totals: <u>140</u> (A) <u>325</u> (B)
6		0.0%		Prevalence Index = $B/A = 2.321$
7		0.0%		
8.	-	0.0%		Hydrophytic Vegetation Indicators:  Rapid Test for Hydrophytic Vegetation
9		0.0%		✓ Dominance Test is > 50%
10		0.0%		V Prevalence Index is $\leq 3.0^{-1}$
Shrub Stratum (Plot size:)		= Total Cover		
1. Viburnum recognitum	45	✔ 100.0%	FAC	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		0.0%		<sup>1</sup> 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	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.
7		= Total 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. Phalaris arundinacea	95	✓ 100.0%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2	0	0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
3	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
4	0	0.0%		in height.
5	0	0.0%		
6		0.0%		Five Vegetation Strata:
7	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	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	0.0%		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		= 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	0.0%		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 Cover		
Remarks: (Include photo numbers here or on a separate shee	et )			

0-16       10YR         10YR       10YR         11       Ype: C=Concentration.         Hydric Soil Indicators:       10YR         Histosol (A1)       10YR         Histosol (A1)       10YR         Histic Epipedon (A2)       10YR         Black Histic (A3)       10YR         Hydrogen Sulfide (A4)       10YR         Stratified Layers (A5)       2 cm Muck (A10) (LR         Depleted Below Dark       11hick Dark Surface (A10)         MLRA 147, 148       110YR         Sandy Gleyed Matrix       110YR         Sandy Redox (S5)       110YR         Stripped Matrix (S6)       110YR	4) ) RR N) < Surface (A* (A12)	11)	Dark Surface (	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	C N	Clay	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Type: C=Concentration.  Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface (/ Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6)  Restrictive Layer (if ob Type: Depth (inches):	D=Depletion 	n. RM=Reduc	ced Matrix, CS=Cover Dark Surface ( Polyvalue Belo Thin Dark Surf Loamy Gleyed ✓ Depleted Matri Redox Dark Su Depleted Dark	S7) w Surface (1 ace (S9) (M Matrix (F2) x (F3) urface (F6)	d Sand Grains	2Location: F	PL=Pore Lining. M=M ndicators for Proble 2 cm Muck (A10) Coast Prairie Redo (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface (/ Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Cestrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
<ul> <li>Histosol (A1)</li> <li>Histosol (A1)</li> <li>Histic Epipedon (A2)</li> <li>Black Histic (A3)</li> <li>Hydrogen Sulfide (A4</li> <li>Stratified Layers (A5)</li> <li>2 cm Muck (A10) (LR</li> <li>Depleted Below Dark</li> <li>Thick Dark Surface (I</li> <li>Sandy Muck Mineral MLRA 147, 148)</li> <li>Sandy Gleyed Matrix</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> </ul> estrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface (/ Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Cestrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface (/ Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface (/ Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface (/ Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface (/ Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface (/ Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface ( <i>I</i> Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface ( <i>I</i> Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface (/ Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface ( <i>I</i> Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) (LR Depleted Below Dark Thick Dark Surface (/ Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	4) ) RR N) < Surface (A* (A12)	11)	<ul> <li>□ Dark Surface (</li> <li>□ Polyvalue Belo</li> <li>□ Thin Dark Surf</li> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	S7) w Surface ( ace (S9) (M Matrix (F2) x (F3) urface (F6)	S8) (MLRA 147,1	Iı	ndicators for Proble 2 cm Muck (A10) Coast Prairie Rede (MLRA 147,148)	ematic Hydric Soils <sup>3</sup> : (MLRA 147)
<ul> <li>Histosol (A1)</li> <li>Histic Epipedon (A2)</li> <li>Black Histic (A3)</li> <li>Hydrogen Sulfide (A4</li> <li>Stratified Layers (A5)</li> <li>2 cm Muck (A10) (LR</li> <li>Depleted Below Dark</li> <li>Thick Dark Surface (A</li> <li>Sandy Muck Mineral MLRA 147, 148)</li> <li>Sandy Gleyed Matrix</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> </ul> estrictive Layer (if ob Type:	4) ) RR N) < Surface (A <sup>*</sup> (A12)		Polyvalue Belo Thin Dark Surf Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark	w Surface ( ace (S9) (M Matrix (F2) x (F3) ırface (F6)			<ul> <li>2 cm Muck (A10)</li> <li>Coast Prairie Redo (MLRA 147,148)</li> </ul>	(MLRA 147)
<ul> <li>Histic Epipedon (A2)</li> <li>Black Histic (A3)</li> <li>Hydrogen Sulfide (A4</li> <li>Stratified Layers (A5)</li> <li>2 cm Muck (A10) (LR</li> <li>Depleted Below Dark</li> <li>Thick Dark Surface (A</li> <li>Sandy Muck Mineral MLRA 147, 148)</li> <li>Sandy Gleyed Matrix</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> </ul>	4) ) RR N) < Surface (A <sup>-</sup> (A12)		Polyvalue Belo Thin Dark Surf Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark	w Surface ( ace (S9) (M Matrix (F2) x (F3) ırface (F6)		18) [	Coast Prairie Redo (MLRA 147,148)	
Black Histic (A3)         Hydrogen Sulfide (A4)         Stratified Layers (A5)         2 cm Muck (A10) (LR         Depleted Below Dark         Thick Dark Surface (A         Sandy Muck Mineral         MLRA 147, 148)         Sandy Redox (S5)         Stripped Matrix (S6)         estrictive Layer (if ob         Type:         Depth (inches):	4) ) RR N) < Surface (A <sup>-</sup> (A12)		<ul> <li>Thin Dark Surf</li> <li>Loamy Gleyed</li> <li>Depleted Matri</li> <li>Redox Dark Su</li> <li>Depleted Dark</li> </ul>	ace (S9) (M Matrix (F2) x (F3) ırface (F6)		[	(MLRA 147,148)	ox (A16)
<ul> <li>Hydrogen Sulfide (A4</li> <li>Stratified Layers (A5)</li> <li>2 cm Muck (A10) (LR</li> <li>Depleted Below Dark</li> <li>Thick Dark Surface (<i>I</i></li> <li>Sandy Muck Mineral MLRA 147, 148)</li> <li>Sandy Gleyed Matrix</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> </ul> Restrictive Layer (if ob Type:	) RR N) < Surface (A <sup>*</sup> A12)		<ul> <li>□ Loamy Gleyed</li> <li>✓ Depleted Matri</li> <li>□ Redox Dark Su</li> <li>□ Depleted Dark</li> </ul>	Matrix (F2) x (F3) ırface (F6)	,			
Stratified Layers (A5)         2 cm Muck (A10) (LR         Depleted Below Dark         Thick Dark Surface (I         Sandy Muck Mineral         MLRA 147, 148)         Sandy Gleyed Matrix         Sandy Redox (S5)         Stripped Matrix (S6) <b>estrictive Layer (if ob</b> Type:         Depth (inches):	) RR N) < Surface (A <sup>*</sup> A12)		Depleted Matri     Redox Dark Su     Depleted Dark	x (F3) Irface (F6)				
<ul> <li>2 cm Muck (A10) (LR</li> <li>Depleted Below Dark</li> <li>Thick Dark Surface (<i>I</i></li> <li>Sandy Muck Mineral MLRA 147, 148)</li> <li>Sandy Gleyed Matrix</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> </ul> estrictive Layer (if ob Type:	RR N) < Surface (A <sup>*</sup> (A12)		Redox Dark Su	ırface (F6)			Piedmont Floodpl (MLRA 136, 147)	lain Soils (F19)
Depleted Below Dark     Thick Dark Surface (#     Sandy Muck Mineral     MLRA 147, 148)     Sandy Gleyed Matrix     Sandy Redox (S5)     Stripped Matrix (S6)  Restrictive Layer (if ob     Type: Depth (inches):	< Surface (A A12)		Depleted Dark	. ,				
<ul> <li>Thick Dark Surface (<i>I</i></li> <li>Sandy Muck Mineral MLRA 147, 148)</li> <li>Sandy Gleyed Matrix</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> <li>Stestrictive Layer (if ob Type:</li> <li>Depth (inches):</li> </ul>	A12)				)		Very Shallow Darl	
Sandy Muck Mineral MLRA 147, 148) Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Cestrictive Layer (if ob Type: Depth (inches):					/		Other (Explain in	Remarks)
MLRA 147, 148)  Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6)  Estrictive Layer (if ob Type: Depth (inches):		1	Iron-Manganes					
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):		1	MLRA 136)					
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if ob Type: Depth (inches):	(S4)		Umbric Surface	e (F13) (ML	RA 136, 122)		2	
Restrictive Layer (if ob Type: Depth (inches):			Piedmont Floo	dplain Soils	(F19) (MLRA 148	)	<sup>3</sup> Indicators of	hydrophytic vegetation and drology must be present,
Type: Depth (inches):			Red Parent Ma	nterial (F21)	(MLRA 127, 147	1		sturbed or problematic.
Type: Depth (inches):								
Depth (inches):	served):							
							dric Soil Present?	Yes 🔍 No 🔾
Remarks:							and son Fresent:	

#### Wetland 54a/b/c/d

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

Project/Site: Carrollton-Sunnyside		City/County:	Stark	Sampli	ng Date: 25-Apr-17
Applicant/Owner: AEP			State: OH	Sampling Poir	nt: W-PJR-042517-05
Investigator(s): PJR, LCB		Section, Town	nship, Range: S	23 <b>T</b> 10N	<b>R</b> _8W
Landform (hillslope, terrace, etc.):	Depression	Local relief (co	ncave, convex, none	): concave	Slope: $1.0\%$ / $0.6$ °
Subregion (LRR or MLRA):	Lat.:	40.766354	Long.:	-81.338912	Datum: NAD83
Soil Map Unit Name: FcB				NWI classification:	NA
Are climatic/hydrologic conditions o Are Vegetation	, or Hydrology significant	ear? Yes • tly disturbed? problematic?	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? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No	Is the Sampled Area within a Wetland?	Yes $\bullet$ No $\bigcirc$
Remarks: PSS/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 Im	nagery (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? Ye	es 🔍 No 🔾	Depth (inches):1	
Water Table Present? Ye	es 🔿 No 🖲	Depth (inches):	
Saturation Present?		Wetland H	ydrology Present? Yes $ullet$ No $igodow$
(includes capillary fringe) Ye	es 🔍 No 🔾	Depth (inches): 5	
(includes capillary minge)		Depth (inches): <u>5</u> ring well, aerial photos, previous inspections), if a	vailable:
(includes capillary minge)			vailable:
(includes capillary minge)			vailable:
Describe Recorded Data (strea			vailable:
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Wetland 54a/b/c/d

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

		Dominant —Species? –		Sampling Point: <u>W-PJR-042517-05</u>
	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%		Total % Cover of: Multiply by:
	0 :	= Total Cover		OBL species 0 x 1 = 0
Sapling-Sapling/Shrub Stratum (Plot size:	_			FACW species65 x 2 =130
1		0.0%		FAC species <u>65</u> x 3 = <u>195</u>
2		0.0%		FACU species $0 \times 4 = 0$
3		0.0%		UPL species $15 \times 5 = 75$
4		0.0%		Column Totals: 145 (A) 400 (B)
5		0.0%		
o 7		0.0%		Prevalence Index = $B/A = 2.759$
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 $\leq 3.0^{-1}$
Shrub Stratum (Plot size:) 1. Viburnum recognitum	55	✔ 100.0%	FAC	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1: <u>Viburnum recognitum</u> 2		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		0.0%		<sup>1</sup> 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:)	55 :	= Total Cover		regardless of height.
1. Phalaris arundinacea	65	✓ 72.2%	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. Daucus carota	15	16.7%	UPL	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Equisetum arvense	10	11.1%	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	0.0%		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:)	90 :	= 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%		height.
5	0	0.0%		Hydrophytic
6	0	0.0%		Vegetation
	0	= Total Cove	r	Present? Yes $\odot$ No $\bigcirc$
Remarks: (Include photo numbers here or on a separate she				

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

#### Sampling Point: W-PJR-042517-05

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth Matrix			Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 5/2	95	10YR 5/6	5	C	Μ	Clay Loam	
-								
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								<u>.</u>
· · · · · · · · · · · · · · · · · · ·								
·								
<sup>1</sup> Type: C=Con	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covere	ed or Coate	d Sand Gra	ains <sup>2</sup> Locat	tion: PL=Pore Lining. M=M	atrix
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup> Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: Indicators:								
Histosol (A1) Dark Surface (S7)							Indicators for Problematic Hydric Soils <sup>3</sup> :	
	pedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,148)				<ul> <li>2 cm Muck (A10) (MLRA 147)</li> <li>Coast Prairie Redox (A16) (MLRA 147,148)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 136, 147)</li> </ul>		
Black Hist		Thin Dark Surface (S9) (MLRA 147, 148)						
	Sulfide (A4)	Loamy Gleyed Matrix (F2)						
	Layers (A5)	Loanny Gleyed Marrix (F2)     Depleted Matrix (F3)						
	k (A10) (LRR N)	Redox Dark Surface (F6)						
	Below Dark Surface (A	Depleted Dark Surface (F7)				Very Shallow Dar		
· ·	k Surface (A12)	Redox Depressions (F8)				Uther (Explain in Remarks)		
		Iron-Manganese Masses (F12) (LRR N,						
MLRA 147	ıck Mineral (S1) (LRR N 7, 148)	MLRA 136)						
Sandy Gle	eyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)						
Sandy Redox (S5)			Piedmont Floodplain Soils (F19) (MLRA 148)				<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Stripped Matrix (S6)			Red Parent Material (F21) (MLRA 127, 147)					
Restrictive Layer (if observed):								
Туре:						Hydric Soil Present? Yes  No		
Depth (inches):							Hydric Soll Present?	Yes S No C
Remarks:								

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County: Stark		Sampli	ng Date: 25-Apr-17					
Applicant/Owner: AEP	State	HO H	Sampling Poir	nt: W-PJR-042517-04					
Investigator(s): PJR, LCB	Section, Township, Ran	ge:S 2	23 <b>T</b> 10N	<b>R</b> _8W					
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, con	vex, none	concave	Slope: $1.0\%$ / $0.6$ °					
Subregion (LRR or MLRA):	40.770188	Long.:	-81.344384	Datum: NAD83					
Soil Map Unit Name: WuD2			NWI classification:	NA					
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 p	problematic? (If nee	ded, expla	ain 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 ()	No () No ()	Is the Sampled Area	Yes 💿 No 🔿	
Wetland Hydrology Present?	Yes 🖲	No 🔾	within a Wetland?		
Remarks:					
PSS wetland					

Primary Indicators (minim	ors:			Secondary Indicators (minimum of two required)
	um 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 Aeria	al Imagery (I	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 $\bigcirc$	Depth (inches): 1	
Water Table Present?	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	ydrology Present? Yes 🖲 No 🔾
Saturation Present? (includes capillary fringe)	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches):	ydrology Present? Yes 🔍 No 🔾
Describe Recorded Data (st	tream gaug	je, monitor	ing well, aerial photos, previous inspections), if a	vailable:
Remarks:				

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

		Dominant — Species? –		Sampling Point: <u>W-PJR-042517-04</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         0         x 1 =         0
1		0.0%		<b>FACW species</b> <u>15</u> <b>x 2</b> = <u>30</u>
2	_	0.0%		<b>FAC speci es</b> <u>65</u> <b>x 3</b> = <u>195</u>
3.		0.0%		FACU species $0 \times 4 = 0$
4.		0.0%		UPL species $0 \times 5 = 0$
5.	_	0.0%		Column Totals: <u>80</u> (A) <u>225</u> (B)
6		0.0%		Prevalence Index = $B/A = 2.813$
7		0.0%		
8.	_	0.0%		Hydrophytic Vegetation Indicators:  Rapid Test for Hydrophytic Vegetation
9		0.0%		
10		0.0%		
		= Total Cover		
Shrub Stratum (Plot size:)	65	✔ 100.0%	FAC	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1. <u>Viburnum recognitum</u>		0.0%	TAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2		0.0%		
3		0.0%		<sup>1</sup> Indicators of hydric soil and wetland hydrology must 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			(7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size:)	65:	= Total Cover		regardless of height. Sapling/shrub stratum – Consists of woody plants, excluding
1. Impatiens capensis	15	▲ 100.0%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2	0	0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
3	0	0.0%		
4	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft in height.
5	0	0.0%		
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	0.0%		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:)	15 :	= 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%		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	et.)			-

Profile Descr	iption: (Describe to	the depth n	eeded 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 <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 4/2	90	7.5YR 5/6	10	C	M	Silt Loam	
-	p							
		·						
	· ·							
<sup>1</sup> Type: C=Con	centration. D=Depletio	n. RM=Reduc	ed Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins <sup>2</sup> Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil 1						2000		
Histosol (			Dark Surface (	(57)				ematic Hydric Soils <sup>3</sup> :
	pedon (A2)		Polyvalue Belo		(MI RA	147 148)	2 cm Muck (A10)	(MLRA 147)
Black Hist			Thin Dark Surf				Coast Prairie Red	ox (A16)
	Sulfide (A4)		Loamy Gleyed			-0)	(MLRA 147,148)	
	Layers (A5)		Depleted Matri				Piedmont Floodpl (MLRA 136, 147)	ain Soils (F19)
	k (A10) (LRR N)		Redox Dark Su					
	Below Dark Surface (A	11)	Depleted Dark	. ,	7)		Very Shallow Dar	
	k Surface (A12)	11)	Redox Depress				Other (Explain in	Remarks)
	. ,				F12) (I RR	N		
MLRA 147	ıck Mineral (S1) (LRR N 7, 148)	1,	MLRA 136)					
Sandy Gle	eyed Matrix (S4)		Umbric Surfac				<sup>3</sup> Indicators of	hydrophytic vegetation and
Sandy Re	dox (S5)		Piedmont Floo	dplain Soils	(F19) (MLI	RA 148)	wetland hyd	Irology must be present,
Stripped I	Matrix (S6)		Red Parent Ma	nterial (F21)	(MLRA 12	7, 147)	unless di	sturbed or problematic.
Postrictivo I	ayer (if observed):							
Type:								
Depth (inc							Hydric Soil Present?	Yes 🔍 No 🔾
	nes).							
Remarks:								

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County:	Stark	Samplin	ng Date: 25-Apr-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: W-PJR-042517-03
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S 1	5 <b>T</b> _10N	<b>R</b> 8W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (co	ncave, convex, none)	concave	Slope: <u>2.0%</u> / <u>1.1</u> °
Subregion (LRR or MLRA):	40.778162	Long.:	-81.352516	Datum: NAD83
Soil Map Unit Name: SI			NWI classification:	N/A
	year? 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 🔿		
Hydric Soil Present?	Yes 🖲	No	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	
Remarks:				
PEM/PSS (90/10) 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 Ir	magery (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? Ye	es 🔍 No 🔾	Depth (inches): 12	
Water Table Present? Ye	es 🔿 🛛 No 🖲		
Saturation Present? (includes capillary fringe) Ye	es 🔍 No 🔾	Depth (inches): 5	Hydrology Present? Yes 🖲 No 🔾
(includes capillary fringe) Ye		Depth (inches):5 toring well, aerial photos, previous inspections), if a	
(includes capillary fringe) Ye		Depth (inches): 5	
(includes capillary fringe) Ye		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	
(includes capillary fringe) Ye Describe Recorded Data (strea		Depth (inches): 5	

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

	Dominant Species?			Sampling Point: <u>W-PJR-042517-03</u>		
Tree Stratum (Plot size: )	Absolute % Cover	Re	el.Strat.	Indicator Status	Dominance Test worksheet:	
<u> </u>	0		0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)	
2	0		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		0.0%		That Are OBL, FACW, or FAC:(A/B)	
7			0.0%		Prevalence Index worksheet:	
8.	0		0.0%		Total % Cover of: Multiply by:	
	0 :	= То	otal Cove	r	OBL species x 1 =	
Sapling-Sapling/Shrub Stratum (Plot size:)			0.00/		FACW species	
1			0.0%		FAC species x 3 =15	
2			0.0%		FACU species	
3			0.0%	·	UPL species $0 \times 5 = 0$	
4			0.0%		Column Totals: 125 (A) 295 (B)	
5			0.0%			
6			0.0%		Prevalence Index = $B/A = 2.360$	
7	-		0.0%		Hydrophytic Vegetation Indicators:	
8			0.0%		Rapid Test for Hydrophytic Vegetation	
9			0.0%		✓ Dominance Test is > 50%	
10			otal Cove		✓ Prevalence Index is $\leq$ 3.0 <sup>1</sup>	
Shrub Stratum (Plot size:)		_			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
1. Viburnum recognitum	5		25.0%	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. Spiraea alba			75.0%	FACW		
3			0.0%		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
4			0.0%			
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		0.0%	- <u></u>	(7.6 cm) or more in diameter at breast height (DBH),	
Herb Stratum (Plot size:)	20:	= To	otal Cove	r	regardless of height. Sapling/shrub stratum – Consists of woody plants, excluding	
1. Typha angustifolia	20		19.0%	OBL	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
2. Scirpus cyperinus	55		52.4%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,	
3. Solidago altissima	30		28.6%	FACU	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%			
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. Shrub stratum – Consists of woody plants, excluding woody	
12	0		0.0% Dtal Cove		vines, approximately 3 to 20 ft (1 to 6 m) in height.	
_Woody Vine Stratum (Plot size: )	105 :	= 10	Stal 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 height.	
4	0		0.0%			
5	0		0.0%		Hydrophytic	
6	0		0.0%		Vegetation	
	0	= T	otal Cove	r	Present? Yes No U	
Remarks: (Include photo numbers here or on a separate shee	+ )					

a sep

Indicator       96       Color (moist)       96       Tore. <sup>1</sup> Loc <sup>2</sup> Texture       Remarks         0-12       10/R       52       65       10/R       5/6       C       M       Sit Loam       Refusal At 127:         0       10       52       65       10/R       5/6       C       M       Sit Loam       Refusal At 127:         0       10 <th>Depth</th> <th>Matrix</th> <th></th> <th></th> <th>dox Featu</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Depth	Matrix			dox Featu						
Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains       *Location:       PL=Pore Lining. M=Matrix         Hydric Soil Indicators:									Refusal a	marks	40% grave
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         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) (MLRA 136, 147)         2 cm Muck (A10) (RR N)       Redox Dark Surface (F6)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         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 vegetatio wetland hydrology must be prese unless disturbed or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic         Type:	0-12	101R 5/2		10YR 5/6			IVI	Siit Loam			
tydric Soil Indicators:       Indicators:       Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils:         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         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) (MLRA 136, 147)         Stratified Layers (A5)       Depleted Dark Surface (F6)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         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 vegetatio wetland hydrology must be prese unless disturbed or problematic Hydric Soil Present?         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       4 Mydric Soil Present?       Yes No         Type:									·		
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)       Coast Prairie Redox (A16) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Coast Prairie Redox (A16) (MLRA 147, 148)         Stratified Layers (A5)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetatio wetland hydrology must be prese unless disturbed or problematic Hydrology Hydrology Hy											
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         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) (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Piedmont Floodplain Network Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetatio wetland hydrology must be prese unless disturbed or problematic Hydric Soil Present?         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 127, 147)       4 Mydric Soil Present?       Yes No         estrictive Layer (If observed):       Type:											
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         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) (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         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 vegetatio wetland hydrology must be prese unless disturbed or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic         Type:									- <del>.</del>		
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         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) (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Piedmont Floodplain Network Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetatio wetland hydrology must be prese unless disturbed or problematic Hydric Soil Present?         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 127, 147)       4 Mydric Soil Present?       Yes No         estrictive Layer (If observed):       Type:											
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         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) (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         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 vegetatio wetland hydrology must be prese unless disturbed or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic         Type:											
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         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) (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         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 vegetatio wetland hydrology must be prese unless disturbed or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic         Type:											
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)       Coast Prairie Redox (A16) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Coast Prairie Redox (A16) (MLRA 147, 148)         Stratified Layers (A5)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetatio wetland hydrology must be prese unless disturbed or problematic Hydric Soil Present?         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       3 Indicators of hydrophytic vegetatio wetland hydrology must be prese unless disturbed or problematic Hydric Soil Present?         Type:											
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         Black Histic (A3)       Thin Dark Surface (S9) (MLRA 147, 148)       Coast Prairie Redox (A16) (MLRA 147, 148)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Coast Prairie Redox (A16) (MLRA 147, 148)         Stratified Layers (A5)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetatio wetland hydrology must be prese unless disturbed or problematic Hydric Soil Present?         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       3 Indicators of hydrophytic vegetatio wetland hydrology must be prese unless disturbed or problematic Hydric Soil Present?         Type:											
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         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) (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Piedmont Floodplain Network Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Very Shallow Dark Surface (TF12)         Thick Dark Surface (A12)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Sandy Muck Mineral (S1) (LRR N, MLRA 136)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetatio wetland hydrology must be prese unless disturbed or problematic Hydric Soil Present?         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 127, 147)       4 Mydric Soil Present?       Yes No         estrictive Layer (If observed):       Type:											
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (MLRA 147)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (MLRA 147, 148)       2 cm Muck (A10) (MLRA 147)         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) (MLRA 136, 147)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         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 vegetatio wetland hydrology must be prese unless disturbed or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic         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)         2 cm Muck (A10) (LRR N)       Redox Dark Surface (F6)         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)         Striped Matrix (S6)       Red Parent Material (F21) (MLRA 147, 147)         estrictive Layer (if observed):       Type:         Type:       Type:         Depth (inches):       Yes (No C	Type: C=Conce	ntration. D=Depletic	on. RM=Redu	ced Matrix, CS=Cover	ed or Coat	ed Sand Gra	ins <sup>2</sup> Loca	tion: PL=Pore Lining. M	=Matrix		
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) (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) (MLRA 136, 147)         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) <sup>3</sup> Indicators of hydrophytic vegetatio wetland hydrology must be prese unless disturbed or problematic         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 127, 147) <sup>3</sup> Indicators of nydrophytic vegetatio wetland hydrology must be prese unless disturbed or problematic         Type:	lydric Soil Ind	dicators:						Indicators for Pro	blematic Hydr	ric Soils <sup>3</sup>	
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)         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 Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 148)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)         testrictive Layer (if observed):       Type:         Type:	Histosol (A1	)		Dark Surface	(S7)				-	10 00113	•
Black Histic (A3)       Infini Daik Sufface (S9) (MLRA 147, 145)       (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)       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 wetland hydrology must be prese unless disturbed or problematic         Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 127, 147)       unless disturbed or problematic         stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic         Type:	Histic Epipe	don (A2)		Polyvalue Belo	w Surface	(S8) (MLRA	147,148)				
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 136, 147)         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)       Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)       3 Indicators of hydrophytic vegetation wetland hydrology must be prese         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetation wetland hydrology must be prese         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic         Type:	Black Histic	(A3)		Thin Dark Surf	ace (S9) (N	MLRA 147, 1	48)	MIRA 147 14	Redox (A16)		
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 147, 148)       Iron-Manganese Masses (F12) (LRR N, MLRA 136)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Umbric Surface (F13) (MLRA 136, 122)       3 Indicators of hydrophytic vegetation wetland hydrology must be prese unless disturbed or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic         Type:	Hydrogen S	ulfide (A4)		Loamy Gleyed	Matrix (F2	)				2)	
Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         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)         unless disturbed or problematic         Type:	Stratified La	iyers (A5)		<ul> <li>Depleted Matr</li> </ul>	ix (F3)			(MLRA 136, 1	47)	')	
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)       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) <sup>3</sup> Indicators of hydrophytic vegetation wetland hydrology must be prese unless disturbed or problematic         Exetrictive Layer (if observed):       Type:	2 cm Muck (	(A10) (LRR N)		Redox Dark Su	urface (F6)			Very Shallow	Dark Surface (TF	12)	
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)         estrictive Layer (if observed):       Type:         Type:       Hydric Soil Present?         Yes       No	Depleted Be	low Dark Surface (A	.11)	Depleted Dark	Surface (F	7)				,	
MLRA 147, 148)       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)         estrictive Layer (if observed):       Type:         Type:       Hydric Soil Present?         Yes       No	Thick Dark S	Surface (A12)		Redox Depres	sions (F8)			e (p.e	, , , , , , , , , , , , , , , , , , , ,		
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)         estrictive Layer (if observed):       Type:         Type:       Hydric Soil Present?         Depth (inches):       Yes • No	Sandy Muck	(Mineral (S1) (LRR N 148)	Ν,		se Masses	(F12) (LRR	N,				
Sandy Redox (S5)       Piedmont Floodplain Soils (F19) (MLRA 148)       Indicators of hydrophytic vegetation wetland hydrology must be prese unless disturbed or problematic         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       unless disturbed or problematic         testrictive Layer (if observed):       Type:       Hydric Soil Present? Yes        No				Umbric Surfac	e (F13) (M	LRA 136, 12	22)				
Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 127, 147)       wetrand hydrology must be prese unless disturbed or problematic         Restrictive Layer (if observed):				Piedmont Floo	dplain Soils	s (F19) (MLI	RA 148)	<sup>3</sup> Indicators	of hydrophytic \	vegetatior	n and
Restrictive Layer (if observed):       Type:											
Type:											
Depth (inches): Yes • No		er (if observed):									
								Hydric Soil Present		No	)
Remarks:	Depth (inche	!S):						Hydric Son Fresend	i ies 🗢		/
	Remarks:										

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County: Stark		Sampli	ng Date: 25-Apr-17
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: W-PJR-042517-02
Investigator(s): Phil Renner	Section, Township,	Range: S	15 <b>T</b> _10N	<b>R</b> _8W
Landform (hillslope, terrace, etc.): Depression	Local relief (concave,	, convex, none	): concave	Slope: $1.0\%$ / $0.6$ °
Subregion (LRR or MLRA):	40.779255	Long.:	-81.354134	Datum: NAD83
Soil Map Unit Name: Fpi1A1			NWI classification:	NA
	tly disturbed? Ar	re "Normal Circ	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?	Yes 🖲	No 🔿		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔿
Wetland Hydrology Present?	Yes 🖲	Νο 〇	within a Wetland?	
Remarks:				
PEM/PSS (95/5) wetland				

			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	e required; ch	eck all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	[	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
<ul> <li>High Water Table (A2)</li> </ul>	[	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): 4	
Water Table Present? Yes •	No $\bigcirc$	Depth (inches): 7	
Saturation Present? Yes •	$_{\sf No}$ $\bigcirc$	Wetland     Depth (inches):   6	Hydrology Present? Yes 💿 No 🔾
	ıge, monitorir	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-042517-02</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%		Demont 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 $60 \times 2 = 120$
2.	_	0.0%		<b>FAC speci es</b> $5 \times 3 = 15$
3.		0.0%		FACU species $0 \times 4 = 0$
4.		0.0%		UPL species $0 \times 5 = 0$
5.	_	0.0%		Column Totals:
6		0.0%		Prevalence Index = B/A = 2.077
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		<b>V</b> Prevalence Index is $\leq 3.0^{-1}$
Shrub Stratum (Plot size:)			FAC	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1. <u>Viburnum recognitum</u>			FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2		0.0%		
3		0.0%		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4		0.0%		Definition of Vegetation Strata:
5		0.0%		Four Vegetation Strata:
6		0.0%		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:)	5=	= Total Cover		regardless of height. Sapling/shrub stratum – Consists of woody plants, excluding
1. Phalaris arundinacea	60	✓ 100.0%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2	0	0.0%		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 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:)	60=	= 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%		height.
5	0	0.0%		
6.	0	0.0%		Hydrophytic Vegetation
0		= Total Cover		Present? Yes No
Remarks: (Include photo numbers here or on a separate shee				1

Depth		Matrix			dox Featu			bsence of indicators.)		
(inches)	Color	(moist)	%	Color (moist)	%	Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Ren	narks
0-16	10YR	5/1	90	10YR 4/6	10	С	Μ	Clay Loam		
		- <u>-</u>								
			·							
									ç	
	contration [	)-Depletio	n PM-Podu	iced Matrix CS-Cover	ed or Coate	ad Sand Gra	ins 21 ocat	tion: PL=Pore Lining. M=M	atriv	
										2
Hydric Soil I Histosol (				Dark Surface	(57)			Indicators for Proble	ematic Hydri	c Soils <sup>3</sup> :
_	pedon (A2)			Polyvalue Belo	• •	(SO) (MI DA	117 110)	2 cm Muck (A10)	(MLRA 147)	
Black Hist				Thin Dark Sur				Coast Prairie Red	ox (A16)	
	n Sulfide (A4)	<b>)</b>		Loamy Gleyed			40)	(MLRA 147,148)		
	Layers (A5)	)		Depleted Matr		)		Piedmont Floodp (MLRA 136, 147)	ain Soils (F19	)
	:k (A10) (LRF	5 N)		Redox Dark Su	• •					10)
_	Below Dark		11)	Depleted Dark		7)		Very Shallow Dar		12)
	'k Surface (A		11)	Redox Depres		,,		Other (Explain in	Remarks)	
_	uck Mineral (		1	Iron-Mangane		(F12) (LRR	N.			
MLRA 14	7, 148)	31) (LKK IV	1,	MLRA 136)		( / (	-,			
Sandy Gle	eyed Matrix (	(S4)		Umbric Surfac	e (F13) (ML	_RA 136, 12	2)	2		
Sandy Re	dox (S5)			Piedmont Floo	dplain Soils	5 (F19) (MLI	RA 148)	<sup>3</sup> Indicators of wetland by	hydrophytic v drology must l	egetation and
Stripped I	Matrix (S6)			Red Parent M	aterial (F21)	) (MLRA 12	7, 147)		sturbed or pro	
		D								
Restrictive L										
Туре:								Hydric Soil Present?	Yes 🖲	No 🔿
Depth (inc	:hes):								103 0	
Remarks:										

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County: Stark	Sampling Date: 25-Apr-17
Applicant/Owner: AEP	State: OH	Sampling Point: W-PJR-042517-01
Investigator(s): PJR, LCB	Section, Township, Range: S	15 <b>T</b> <u>10N</u> <b>R</b> <u>8W</u>
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none	e): concave Slope: / °
Subregion (LRR or MLRA): LRR N Lat.:	40.779527 Long.:	-81.354301 Datum: NAD83
Soil Map Unit Name: Fpi1A1		NWI classification: PEM
	ly disturbed? Are "Normal Cir	olain in Remarks.) cumstances" present? Yes 💿 No 🔾 lain 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 Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of or	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 Imager	y (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):4	
Water Table Present? Yes •	) No 🔿	Depth (inches): 8	lydrology Present? Yes 💿 No 🔾
Saturation Present?	$\cap$	Wetland H	lydrology Present? Yes $ullet$ No $igcup$
Saturation Present? Yes •	No 🔿	Depth (inches):4	
(includes capillary fringe) Yes		Depth (inches):4 ring well, aerial photos, previous inspections), if a	vailable:
(includes capillary fringe) Yes			vailable:
(includes capillary fringe) Yes			vailable:
(includes capillary fringe) Yes Describe Recorded Data (stream ga			vailable:
(includes capillary fringe) Yes Describe Recorded Data (stream ga			vailable:
(includes capillary fringe) Yes Describe Recorded Data (stream ga			vailable:
(includes capillary fringe) Yes Describe Recorded Data (stream ga			vailable:
(includes capillary fringe) Yes Describe Recorded Data (stream ga			vailable:
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(includes capillary fringe) Yes Describe Recorded Data (stream ga			vailable:
(includes capillary fringe) Yes Describe Recorded Data (stream ga			vailable:
(includes capillary fringe) Yes Describe Recorded Data (stream ga			vailable:
(includes capillary fringe) Yes Describe Recorded Data (stream ga			vailable:

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

		Dominant — Species? -		Sampling Point: <u>W-PJR-042517-01</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%		<b>FACW species</b> 75 <b>x 2 =</b> 150
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:
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 <sup>1</sup>
<u>Shrub Stratum</u> (Plot size: ) 1		0.0%		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		0.0%		<sup>1</sup> 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.
	75	✓ 100.0%	FACW	Sapling/shrub stratum – Consists of woody plants, excluding
1.     Phalaris arundinacea       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%		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%		
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).
9 10.		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 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 O No O
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate she	et.)			

Profile Desc	ription: (Describe to	the depth r	eeded to documen	t the indic	ator or co	nfirm the a	bsence of indicators.)	
Depth	Matrix			dox Featu				
(inches)		<u>%</u>	Color (moist)	%	1	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-16	10YR 5/1	90	10YR 4/6	10	C	M	Clay Loam	
								·
	. <u> </u>							
-								
							r7	
			·				p	
<sup>1</sup> Type: C=Con	centration D=Depletic	on RM=Redu	ced Matrix_CS=Cover	ed or Coate	ed Sand Gra	ins <sup>2</sup> Locat	ion: PL=Pore Lining. M=M	atrix
Hydric Soil	-	JII. IIII-IICuu						
Histosol (			Dark Surface	(\$7)			_	ematic Hydric Soils <sup>3</sup> :
	pedon (A2)		Polyvalue Belo	• •	(S8) (MLRA	147,148)	2 cm Muck (A10)	(MLRA 147)
Black His			Thin Dark Surf				Coast Prairie Redo (MLRA 147,148)	x (A16)
	n Sulfide (A4)		Loamy Gleyed	Matrix (F2	)		Piedmont Floodpl	ain Saile (E10)
Stratified	Layers (A5)		Depleted Matr	ix (F3)			(MLRA 136, 147)	
2 cm Muc	ck (A10) (LRR N)		Redox Dark Su	urface (F6)			Very Shallow Darl	k Surface (TF12)
Depleted	Below Dark Surface (A	11)	Depleted Dark	Surface (F	7)		Other (Explain in	Remarks)
Thick Dar	rk Surface (A12)		Redox Depres					
Sandy Mu MLRA 14	uck Mineral (S1) (LRR N 7, 148)	Ν,	Iron-Mangane MLRA 136)	se Masses	(F12) (LRR	Ν,		
Sandy Gl	eyed Matrix (S4)		Umbric Surfac	e (F13) (M	LRA 136, 12	22)	3	
Sandy Re	edox (S5)		Piedmont Floo	dplain Soils	s (F19) (MLI	RA 148)	° Indicators of wetland hyd	hydrophytic vegetation and Irology must be present,
Stripped	Matrix (S6)		Red Parent Ma	aterial (F21	) (MLRA 12	7, 147)	unless dis	sturbed or problematic.
Restrictive I	ayer (if observed):							
Type:								
Depth (inc	:hes):						Hydric Soil Present?	Yes $ullet$ No $igcap$
Remarks:								

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County:	Carroll County	Sampling Date: 27-Apr-17		
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: UP-PJR-042717-01	
Investigator(s): PJR, LCB	Section, Town	nship, Range: S	33 <b>T</b> <u>14N</u>	<b>R</b> _5W	
Landform (hillslope, terrace, etc.): Hillside	Local relief (co	ncave, convex, non	e): concave	Slope: $\_15.0\%$ / $\_8.5$ °	
Subregion (LRR or MLRA):	40.592373	Long.:	-81.091265	Datum: NAD83	
Soil Map Unit Name: WmC			NWI classification:	N/A	
	ear? Yes • tly disturbed? problematic?	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?	$Yes \bigcirc$	No 🖲		
Hydric Soil Present?	Yes 🔾	No 🖲	Is the Sampled Area	Yes $\bigcirc$ No $\bigcirc$
Wetland Hydrology Present?	$Yes \bigcirc$	Νο 🖲	within a Wetland?	
Remarks:				
Upland data point for w-pjr-04251	7-01.			

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):	
	$\cdots$	No 🖲		
Water Table Present?	$_{ m Yes}$ $\bigcirc$	NO 🙂	Depth (inches):	
Saturation Present?	Yes ⊖ Yes ⊖	No 💿	Depth (inches): Wetland I Depth (inches):	Hydrology Present? Yes $\bigcirc$ No $oldsymbol{igodol}$
Saturation Present? (includes capillary fringe)	$_{\rm Yes}$ $\bigcirc$	No 🖲	Wetland I	
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 (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (si	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	

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

		Dominant —Species?		Sampling Point: UP-PJR-042717-01
	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size: )	L		Status	Number of Dominant Species
1	0	0.0%	- <u></u>	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: $0.0\%$ (A/B)
6		0.0%		Durana lan an Tandara una disk a sta
7	0	0.0%		Prevalence Index worksheet: Total % Cover of: Multiply by:
8	0.	= Total Cove		
Sapling-Sapling/Shrub Stratum (Plot size:)				OBL species         0         x 1 =         0           FACW species         0         x 2 =         0
1	0	0.0%		
2	0	0.0%		FAC species $0 \times 3 = 0$
3	0	0.0%		FACU species $\frac{70}{15}$ x 4 = $\frac{280}{75}$
4	0	0.0%		UPL species $15 \times 5 = 75$
5	0	0.0%		Column Totals: <u>85</u> (A) <u>355</u> (B)
6	0	0.0%		Prevalence Index = $B/A = 4.176$
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%		$\square Prevalence Index is \leq 3.0^{-1}$
	:	= Total Cove	r	Morphological Adaptations <sup>1</sup> (Provide supporting
1	0	0.0%		data in Remarks or on a separate sheet)
2.	0	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3		0.0%		<sup>1</sup> 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	0.0%		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. Rosa multiflora	5	5.9%	FACU	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Plantago lanceolata	15	17.6%	UPL	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Poa pratensis	50	58.8%	FACU	regardless of size, and all other plants less than 3.28 ft tall.
4 Achillea millefolium	15	17.6%	FACU	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%		
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:)	85 :	= Total Cove	r	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
	0	0.0%		species, except woody vines, less than approximately 3 ft (1 m) in height.
2	0	0.0%		Woody vines – Consists of all woody vines, regardless of
3 4		0.0%		height.
	0	0.0%		
5	0	0.0%		Hydrophytic Vegetation
0		= Total Cove	r	Present? Yes No •
Pomarka (Include photo numbers here or on a constate shee			-	1

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

Profile Descr	ription: (Describe to	the depth n	eeded to document	t the indic	ator or co	nfirm the a	bsence of indicators.)	
Depth	Matrix			dox Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 6/2		10YR 5/6	45			Silt Loam	
	p						, ,	
					-		,v	
							,	
<sup>1</sup> Type: C=Con	centration. D=Depletic	on. RM=Reduc	ced Matrix, CS=Cover	ed or Coate	d Sand Gra	ains <sup>2</sup> Locat	tion: PL=Pore Lining. M=Ma	atrix
Hydric Soil 1	Indicators:						Indicators for Proble	ematic Hydric Soils <sup>3</sup> :
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	ILRA 147, 1	48)	Coast Prairie Redo (MLRA 147,148)	ox (A16)
Hydrogen	n Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Piedmont Floodpla	ain Soils (F19)
Stratified	Layers (A5)		Depleted Matri	ix (F3)			(MLRA 136, 147)	
2 cm Muc	k (A10) (LRR N)		Redox Dark Su	ırface (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					
Sandy Mu MLRA 14	uck Mineral (S1) (LRR M 7, 148)	Ν,	Iron-Manganes MLRA 136)	se Masses (	F12) (LRR	N,		
Sandy Gle	eyed Matrix (S4)		Umbric Surfac	e (F13) (ML	.RA 136, 12	22)	2	
Sandy Re	dox (S5)		Piedmont Floo	dplain Soils	(F19) (MLI	RA 148)	<sup>o</sup> Indicators of wetland hyd	hydrophytic vegetation and Irology must be present,
Stripped I	Matrix (S6)		Red Parent Ma	aterial (F21)	(MLRA 12	7, 147)	unless dis	sturbed or problematic.
Postrictivo I	ayer (if observed):							
	ayer (II observed):							
	hes):						Hydric Soil Present?	Yes 🔾 No 🖲
	nes)							
Remarks:								

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County: Carroll Cou	nty	Samplin	g Date: 27-Apr-17
Applicant/Owner: AEP	State	ОН	Sampling Point	t: UP-PJR-042717-02
Investigator(s): PJR, LCB	Section, Township, Rang	e: S 3	<b>T</b> _15N	<b>R</b> _6W
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, conv	vex, none):	convex	Slope: <u>25.0%</u> / <u>14.0</u> °
Subregion (LRR or MLRA):	40.597237	Long.: -8	1.099383	Datum: NAD83
Soil Map Unit Name: WmD		N	IWI classification:	N/A
Are climatic/hydrologic conditions on the site typical for this time of year Are Vegetation, Soil, or Hydrology significant		<i>,</i> .	n in Remarks.) nstances" present?	Yes <ul> <li>No</li> </ul>
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If nee	ded, explain	any answers in Ren	narks.)

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

Hydrophytic Vegetation Present?	$_{\rm Yes}$ $\bigcirc$	No 🖲		
Hydric Soil Present?	$_{ m Yes}$ $\bigcirc$	No 🖲	Is the Sampled Area	Yes 🔿 No 🖲
Wetland Hydrology Present?	$Yes \bigcirc$	Νο 🖲	within a Wetland?	
Remarks:				
Upland data point for w-pjr-04251	7-02.			

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?	$_{\rm Yes}$ $\bigcirc$	No 💿	Depth (inches):	
Saturation Present? (includes capillary fringe)	$_{\rm Yes}$ $\bigcirc$	No 💿	Depth (inches):	-lydrology Present? Yes $\bigcirc$ No $oldsymbol{igen}$
(includes capillary fringe)			Depth (inches): Wetland H ring well, aerial photos, previous inspections), if a	
(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):	

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

		Dominant 		Sampling Point: <u>UP-PJR-042717-02</u>
	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Tree Stratum (Plot size:)	L-		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: 0.0% (A/B)
7		0.0%		Prevalence Index worksheet:
8.	0	0.0%		Total % Cover of: Multiply by:
	0 :	= Total Cove		0BL species x 1 =
_Sapling-Sapling/Shrub Stratum_ (Plot size:				FACW species $0 \times 2 = 0$
1		0.0%		FAC species $0 \times 3 = 0$
2		0.0%		FACU species $10 \times 4 = 40$
3		0.0%		UPL species $35 \times 5 = 175$
4		0.0%		Column Totals: 45 (A) 215 (B)
5		0.0%		
6		0.0%		Prevalence Index = B/A = <u>4.778</u>
7		0.0%		Hydrophytic Vegetation Indicators:
8		0.0%		Rapid Test for Hydrophytic Vegetation
9				Dominance Test is > 50%
10		0.0% = Total Cove		Prevalence Index is $\leq$ 3.0 <sup>1</sup>
Shrub Stratum (Plot size:)				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1		0.0%		<ul> <li>Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> </ul>
2		0.0%		
3		0.0%		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4		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		= Total Cove		(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. Brassica rapa		<ul><li>✓ 77.8%</li><li>✓ 22.2%</li></ul>		vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Prunella vulgaris	0	<ul><li>✓ 22.2%</li><li>○ 0.0%</li></ul>	FACU	Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
3	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
Woody Vine Stratum (Plot size:)		= Total Cove		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%		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%		height.
5	0	0.0%		
6	0	0.0%		Hydrophytic Vegetation
0		= Total Cove	r	Present? Yes O No •
Remarks: (Include nhoto numbers here or on a separate she				

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

Donth		atrix		needed to docui	Redox Feat	uroc		absence of indicators.)	
Depth (inches)	Color (mo		%	Color (mois		Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 3/		100					Silt Loam	Remarks
				·					v
					-				
	·								
		epletion.	RM=Red	uced Matrix, CS=C	overed or Coa	ted Sand Gra	ins <sup>2</sup> Locat	tion: PL=Pore Lining. M=M	atrix
lydric Soil I				_				Indicators for Probl	ematic Hydric Soils <sup>3</sup> :
Histosol (A				Dark Surfa	. ,			2 cm Muck (A10)	(MLRA 147)
_	bedon (A2)				Below Surface			Coast Prairie Red	
Black Histi					Surface (S9)		48)	(MLRA 147,148)	0X (A10)
	Sulfide (A4)				eyed Matrix (F	2)		Piedmont Floodp	
_	Layers (A5)				Matrix (F3)			(MLRA 136, 147)	
_	k (A10) (LRR N)				k Surface (F6)			Very Shallow Dar	k Surface (TF12)
	Below Dark Surf		)		Dark Surface (	F7)		Other (Explain in	Remarks)
Thick Dark	k Surface (A12)				pressions (F8)				
Sandy Mue MLRA 147	ck Mineral (S1) 7, 148)	(LRR N,		Iron-Mang MLRA 136	anese Masses )	(F12) (LRR	Ν,		
Sandy Gle	yed Matrix (S4)			Umbric Su	rface (F13) (N	/LRA 136, 12	2)	2	
Sandy Red	dox (S5)			Piedmont	Floodplain Soi	ls (F19) (ML	RA 148)	Indicators of wetland hyperbolic	hydrophytic vegetation and drology must be present,
Stripped N	Aatrix (S6)			Red Parer	t Material (F2	1) (MLRA 12	7, 147)	unless di	sturbed or problematic.
	over (if obcom	(od)							
octrictivo I -		/eu):							
	ayer (il observ							Hydric Soil Present?	Yes 🔿 No 🖲
Туре:								invarie Son i resent:	
Type: Depth (inch								nyune bon resent.	
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Type: Depth (inch									

# WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Carrollton-Sunnyside	City/County:	Carroll Count	у	Sampli	ing Date: 27-Apr-17
Applicant/Owner: AEP		State:	ОН	Sampling Poi	nt: UP-PJR-042717-03
Investigator(s): PJR, LCB	Section, Tow	nship, Range	<b>:S</b> 3	3 <b>T</b> _15N	<b>R</b> _6W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (co	ncave, conve	x, none	): none	Slope: <u>3.0%</u> / <u>1.7</u> °
Subregion (LRR or MLRA): Lat.	40.598332		Long.:	-81.101937	Datum: NAD83
Soil Map Unit Name: WmD				NWI classification:	N/A
	year? Yes () ntly disturbed? problematic?	Are "Nor	mal 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?	$_{\rm Yes}$ $\bigcirc$	No 🖲		
Hydric Soil Present?	$_{ m Yes}$ $\bigcirc$	No 🖲	Is the Sampled Area	Yes 🔿 No 🖲
Wetland Hydrology Present?	Yes $\bigcirc$	Νο 🖲	within a Wetland?	
Remarks:				
Upland data point for w-pjr-04251	7-03.			

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:	0	0		
Surface Water Present?	$Yes \bigcirc$	No 🖲	Depth (inches):	
Water Table Present?	$_{ m Yes}$ $\bigcirc$	No 💿	Depth (inches):	
	163 0	110 0		
Saturation Present?	Yes O	No 💿		Hydrology Present? Yes $\bigcirc$ No $oldsymbol{igodol}$
Saturation Present? (includes capillary fringe)	$_{\rm Yes}$ $\bigcirc$	No 🖲	Wetland	
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.

			ominant pecies? -		Sampling Point: UP-PJR-042717-03
Tree Stratum (Plot size: )	Absolute % Cover	R	el.Strat.	Indicator Status	
1. Quercus rubra	65	✓	100.0%	FACU	Number of Dominant Species           That are OBL, FACW, or FAC:         1         (A)
2.	0		0.0%		
3	0		0.0%		Total Number of Dominant Species Across All Strata: 4 (B)
4			0.0%		
5	0		0.0%		Percent of dominant Species That Are OBL_EACW, or EAC: 25.0% (A/B)
6	0		0.0%		That Are OBL, FACW, or FAC:25.0%(A/B)
7	0		0.0%		Prevalence Index worksheet:
8	0		0.0%		Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size:)	65	= T(	otal Cover		OBL species x 1 =
		$\square$	0.0%		FACW species $0 \times 2 = 0$
1			0.0%		<b>FAC species x 3</b> =45
2			0.0%		FACU species $$
3			0.0%		UPL species30 x 5 =150
5			0.0%		Column Totals: <u>130</u> (A) <u>535</u> (B)
6			0.0%		Prevalence Index = $B/A = 4.115$
7		$\square$	0.0%		
8.			0.0%		Hydrophytic Vegetation Indicators:
9			0.0%		Rapid Test for Hydrophytic Vegetation
10			0.0%		Dominance Test is > 50%
		= T(	otal Cover		Prevalence Index is $\leq 3.0^{-1}$
Shrub Stratum         (Plot size:)           1        )	0		0.0%		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2	0		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3			0.0%		<sup>1</sup> 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:)	0	= T(	otal Cover		regardless of height.
1. Alliaria petiolata	20	$\checkmark$	30.8%	FACU	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. Claytonia virginica	15	✓	23.1%	FAC	Herb stratum – Consists of all herbaceous (non-woody) plants,
3. Carex pensylvanica	30	✓	46.2%	UPL	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		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:)	65	= T(	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%		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 O No •
Remarks: (Include photo numbers here or on a separate shee		- 1		•	

Depth	Matrix		Rec	lox Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 4/4	100					Silt Loam	
	p	·	p					
		·						
							7	
	-							
Type: C=Cond	centration. D=Depletion	n. RM=Redu	ced Matrix, CS=Covere	d or Coate	d Sand Grai	ins <sup>2</sup> Locat	tion: PL=Pore Lining. M=Ma	atrix
Hydric Soil I								ematic Hydric Soils <sup>3</sup> :
Histosol (A			Dark Surface (S	57)				-
Histic Epip			Polyvalue Belov		S8) (MLRA	147,148)	2 cm Muck (A10)	
Black Histi			Thin Dark Surfa				Coast Prairie Redo	ox (A16)
	Sulfide (A4)		Loamy Gleyed I				(MLRA 147,148)	ain Caila (F10)
	Layers (A5)		Depleted Matrix				Piedmont Floodpl (MLRA 136, 147)	ain solis (F19)
2 cm Muck	(A10) (LRR N)		Redox Dark Sur				Very Shallow Darl	< Surface (TF12)
Depleted B	Below Dark Surface (A	11)	Depleted Dark	Surface (F7	)		Other (Explain in	
	Surface (A12)		Redox Depressi	ons (F8)				
	ck Mineral (S1) (LRR N	ı	Iron-Manganes MLRA 136)	e Masses (	F12) (LRR N	٨,		
	yed Matrix (S4)		Umbric Surface	(F13) (ML	RA 136, 12	2)	2	
Sandy Rec			Piedmont Flood	Iplain Soils	(F19) (MLR	RA 148)	<sup>3</sup> Indicators of	hydrophytic vegetation and Irology must be present,
Stripped N			Red Parent Mat					sturbed or problematic.
	ayer (if observed):							
Туре:							Hydric Soil Present?	Yes 🔿 No 🖲
•	nes):							
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: UP-PJR-042717-04
Investigator(s): PJR, LCB	Section, Tow	nship, Range: S	<b>T</b> _15N	<b>R</b> 6W
Landform (hillslope, terrace, etc.): Hillside	Local relief (co	ncave, convex, none	concave	Slope: <u>5.0%</u> / <u>2.9</u> °
Subregion (LRR or MLRA):	40.601341	Long.:	-81.106821	Datum: NAD83
Soil Map Unit Name: WmC			NWI classification:	N/A
	year? Yes • ntly disturbed? problematic?	Are "Normal Circ	lain in Remarks.) umstances" present? ain any answers in Re	Yes 🖲 No 🔾 marks.)

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

Hydrophytic Vegetation Present?	$_{\rm Yes}$ $\bigcirc$	No 🖲		
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🔿 No 🖲
Wetland Hydrology Present?	$_{ m Yes}$ $\bigcirc$	No 💿	within a Wetland?	
Remarks:				
Upland data point for w-pjr-04251	7-04.			

	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:	0	0		
Surface Water Present?	Yes $\bigcirc$	No 🖲	Depth (inches):	
Water Table Present?	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches):	lydrology Present? Yes 🔿 No 🖲
Saturation Present? (includes capillary fringe)	$_{\rm Yes}$ $\bigcirc$	No 🖲	Depth (inches):	lydrology Present? Yes ∪ No ●
	ream gaug	ge, monito	ring well, aerial photos, previous inspections), if a	available:
	ream gaug	ge, monito	ring well, aerial photos, previous inspections), if a	available:
	ream gaug	ge, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gaug	ge, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gauç	ge, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gaug	ge, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gaug	ge, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gauç	je, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gauç	je, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gauç	je, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gauç	je, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gaug	je, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gaug	je, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gaug	je, monito	ring well, aerial photos, previous inspections), if a	available:
Describe Recorded Data (st	ream gaug	je, monito	ring well, aerial photos, previous inspections), if a	available:

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

		Dominant Species?			Sampling Point: UP-PJR-042717-04		
	Absolute	Re	I.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: )	% Cover	<u>Co</u>	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: <u>2</u> (B)		
4			0.0%		Percent of dominant Species		
5			0.0%		That Are OBL, FACW, or FAC: $0.0\%$ (A/B)		
6			0.0%		Durana lan an Tandara una disk a sta		
7	0		0.0%		Prevalence Index worksheet: Total % Cover of: Multiply by:		
8	0	 = To	tal Cove		$0\text{BL species} \qquad 0 \qquad \text{x 1} = 0$		
Sapling-Sapling/Shrub Stratum (Plot size:	)	- 10			FACW species $10 \times 2 = 20$		
1	0		0.0%				
2	0		0.0%				
3	0		0.0%		FACU species $\underline{80}$ x 4 = $\underline{320}$		
4	0		0.0%		UPL species $5 \times 5 = 25$		
5	0		0.0%		Column Totals: <u>95</u> (A) <u>365</u> (B)		
6	0		0.0%		Prevalence Index = $B/A = 3.842$		
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 <sup>1</sup>		
Shrub Stratum (Plot size:)	:	= To	tal Cove		Morphological Adaptations <sup>1</sup> (Provide supporting		
1	0		0.0%		data in Remarks or on a separate sheet)		
2	0		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
3			0.0%		<sup>1</sup> 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. Phieum pratense	50	$\checkmark$	52.6%	FACU	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
2. Daucus carota	5		5.3%	UPL	Herb stratum – Consists of all herbaceous (non-woody) plants,		
3. Trifolium pratense	20		21.1%	FACU	regardless of size, and all other plants less than 3.28 ft tall.		
4. Agrimonia parvifiora	10		10.5%	FACW	Woody vines – Consists of all woody vines greater than 3.28 ft		
5. Prunella vulgaris	10		10.5%	FACU	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		0.0%		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:)		= То	tal 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%		Woody vines – Consists of all woody vines, regardless of		
4			0.0%		height.		
5			0.0%		Underschutig		
6.	0		0.0%		Hydrophytic Vegetation		
	0	= To	otal Cove	r	Present? Yes No 💿		
Pemarks: (Include nhoto numbers here or on a senarate she	-+ \				1		

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

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix Redox Features										
(inches)	Color (moist)	%	Color (moist)	%	Tvpe	Loc <sup>2</sup>	Texture	Remarks			
0-16	10YR 4/2	90	10YR 4/6	10	С	M	Silty Clay Loam				
				-							
							·				
<sup>1</sup> Type: C=Con	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Cover	ed or Coate	d Sand Gra	ains <sup>2</sup> Locat	tion: PL=Pore Lining. M=Ma	itrix			
Hydric Soil	Indicators:						Indicators for Proble	matic Hydric Soils <sup>3</sup> :			
Histosol (	(A1)		Dark Surface (	S7)			2 cm Muck (A10)	-			
Histic Epi	pedon (A2)		Polyvalue Belo	w Surface (	S8) (MLRA	147,148)		. ,			
Black Hist	. ,		Thin Dark Surf	ace (S9) (M	ILRA 147, 1	48)	Coast Prairie Redox (A16) (MLRA 147,148)				
	n Sulfide (A4)		Loamy Gleyed				Piedmont Floodpla	in Soils (F19)			
	Layers (A5)		Depleted Matri	. ,			(MLRA 136, 147)				
2 cm Muc	:k (A10) (LRR N)		Redox Dark Su				Very Shallow Dark	Surface (TF12)			
Depleted	Below Dark Surface (A	11)	Depleted Dark		7)		Other (Explain in I	Remarks)			
Thick Dar	rk Surface (A12)		Redox Depress								
Sandy Mu	uck Mineral (S1) (LRR N	١,	Iron-Manganes MLRA 136)	se Masses (	F12) (LRR	Ν,					
MLRA 14				∍ (F13) (MI	RA 136 13	22)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.				
	eyed Matrix (S4)		Piedmont Floo								
Sandy Re	Matrix (S6)										
			Red Parent Ma	iteriai (FZT)	(IVILKA 12	7, 147)					
Restrictive L	ayer (if observed):										
Туре:											
Depth (inc	ches):						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: 27-Apr-17			
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: upl-bcr-042717-04		
Investigator(s): BCR/MDT	Section, Tow	nship, Range: S	0 <b>T</b> <u>15N</u>	<b>R</b> _6W		
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (co	ncave, convex, none	concave	Slope: $0.0\%$ / $0.0$ °		
Subregion (LRR or MLRA): LRR N Lat	40.608061	Long.:	-81.117176	Datum: NAD83		
Soil Map Unit Name: WmC			NWI classification:	NA		
Are climatic/hydrologic conditions on the site typical for this time of	year? Yes 🖲	No 🔘 (If no, exp	lain in Remarks.)			
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 significant	ntly disturbed?	Are "Normal Circ	cumstances" present?	Yes 🔍 No 🔾		
Are Vegetation, Soil, or Hydrology naturally	y problematic?	(If needed, expla	ain any answers in Re	emarks.)		

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

Hydrophytic Vegetation Present?	$_{ m Yes}$ $\bigcirc$	No 🖲		
Hydric Soil Present?	Yes O	No 🖲	Is the Sampled Area	Yes $\bigcirc$ No $\bigcirc$
Wetland Hydrology Present?	$Yes \bigcirc$	No 🖲	within a Wetland?	
Remarks:				
Upland data point for wetland w-be	r-042717-0	)4.		

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one re	equired: ch	eck 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 (B	7)		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 $\bigcirc$	No 🖲	Depth (inches):	drology Present? Yes 🔿 No 🖲
Saturation Present? Yes O	No 🖲	Depth (inches):	drology Present? Yes 🔾 No 🖲
Describe Recorded Data (stream gauge	e, monitorii	ng well, aerial photos, previous inspections), if ava	ailable:
Remarks:			

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

		Dominant Species?		Sampling Point: <u>upl-bcr-042717-04</u>		
Tree Stratum (Plot size: )	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:		
	0	0.0%	Status	Number of Dominant Species           That are OBL, FACW, or FAC:         0         (A)		
1		0.0%		That are OBL, FACW, or FAC: (A)		
3		0.0%		Total Number of Dominant		
4.		0.0%		Species Across All Strata: (B)		
5		0.0%		Percent of dominant Species		
6.		0.0%		That Are OBL, FACW, or FAC: 0.0% (A/B)		
7		0.0%		Prevalence Index worksheet:		
8.	0	0.0%		Total % Cover of: Multiply by:		
	0 :	= Total Cove	- <u></u>	0BL species 0 x 1 = 0		
Sapling-Sapling/Shrub Stratum (Plot size:	)			<b>FACW species</b> $20$ <b>x 2</b> = $40$		
1		0.0%		FAC species $0 \times 3 = 0$		
2		0.0%		FACU species $90 \times 4 = 360$		
3	-	0.0%		UPL species $5 \times 5 = 25$		
4	-	0.0%				
5	-	0.0%		Column Totals: <u>115</u> (A) <u>425</u> (B)		
6		0.0%		Prevalence Index = $B/A = 3.696$		
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 $\leq$ 3.0 $^{1}$		
Shrub Stratum (Plot size:)	:	= Total Cove	r	Morphological Adaptations <sup>1</sup> (Provide supporting		
1	0	0.0%		data in Remarks or on a separate sheet)		
2	0	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
3	0	0.0%		<sup>1</sup> 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. Poa pratensis	90	▼ 78.3%	FACU	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
2. Solidago gigantea	20	17.4%	FACW	Herb stratum – Consists of all herbaceous (non-woody) plants,		
3. Brassica rapa	5	4.3%	UPL	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	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:)		= 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%		Woody vines – Consists of all woody vines, regardless of		
4		0.0%		height.		
5		0.0%				
6.	0	0.0%		Hydrophytic Vegetation		
		= Total Cove	r	Present? Yes No 🔍		
Pemarks: (Include nhoto numbers here or on a senarate she						

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

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			lox Featu				
(inches)	Color (moist)		Color (moist)	%	Type	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 5/6	100					Clay Loam	
					-		·	
<sup>1</sup> Type: C=Con	centration. D=Depletion	on. RM=Redu	ced Matrix, CS=Covere	d or Coate	d Sand Gra	ins <sup>2</sup> Locat	tion: PL=Pore Lining. M=Ma	itrix
Hydric Soil I	indicators:						Indicators for Proble	matic Hydric Soils <sup>3</sup> :
Histosol (			Dark Surface (S				2 cm Muck (A10)	(MLRA 147)
	pedon (A2)		Polyvalue Belov				Coast Prairie Redo	
Black Hist			Thin Dark Surfa			48)	(MLRA 147,148)	
	Sulfide (A4)		Loamy Gleyed I				Piedmont Floodpla	iin Soils (F19)
	Layers (A5)		Depleted Matrix				(MLRA 136, 147)	
	k (A10) (LRR N)		Redox Dark Sur		7)		Very Shallow Dark	Surface (TF12)
	Below Dark Surface (A	(11)	Depleted Dark S		()		Other (Explain in F	Remarks)
	k Surface (A12)		Iron-Manganes		F12) (I DD	N		
Sandy Mu MLRA 147	ick Mineral (S1) (LRR 1 7, 148)	Ν,	MLRA 136)					
Sandy Gle	eyed Matrix (S4)		Umbric Surface				<sup>3</sup> Indicators of h	nydrophytic vegetation and
Sandy Ree			Piedmont Flood	Iplain Soils	(F19) (MLI	RA 148)	wetland hydr	rology must be present,
Stripped M	Matrix (S6)		Red Parent Mat	terial (F21)	(MLRA 12	7, 147)	unless dis	turbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (incl	hes):						Hydric Soil Present?	Yes 🔾 No 🖲
Remarks:								

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Commission of Ohio Docketing Information System on

6/26/2017 4:50:58 PM

in

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.