Project/Site: AEP Hillsboro to Millbrook Park	City/County: H	lighland	Sampling Date: 10/03/2019
Applicant/Owner: <u>AEP</u>		State: OH	Sampling Point: Upland HM-027
Investigator(s): MJA	Section, Towns	ship, Range: Ohio Surveys VIRGINIA MI	LITARY DISTRICT OH93Highland Lot 1568
Landform (hillslope, terrace, etc.): Hillside	Local relief (conca	ave, convex, none): <u>Rolling</u>	Slope (%): <u>10</u>
Subregion (LRR or MLRA): LRR N Lat: 39.06419		Long: <u>-83.40621</u>	Datum: WGS 84
Soil Map Unit Name: Gasconade flaggy silty clay loam, 35 to 50 pe	ercent slopes	NWI classifica	ation: <u>N/A</u>
Are climatic / hydrologic conditions on the site typical for this time o	of year? Yes X	No (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology significa	ntly disturbed?	Are "Normal Circumstances" p	resent? Yes X No
Are Vegetation _, Soil, or Hydrology naturally	/ problematic?	(If needed, explain any answer	rs in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Yes Yes Yes	No <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes No					
Upland data point situated on southwest-facing slope, in old field, under transmission line.								
,	Yes Yes	Yes No X Yes NoX	Yes NoX within a Wetland?	Yes No X within a Wetland? Yes No X Yes No X Ves No X				

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living R	Roots (C3) 🔲 Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	oils (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 <u>No X</u> Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	
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		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30')		Species?		Number of Dominant Species
1					That Are OBL, FACW, or FAC: 0 (A)
2					
					Total Number of Dominant
3					Species Across All Strata: 3 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 0.00 (A/B)
6					
		0	= Total Cov	er	Prevalence Index worksheet:
	50% of total cover: 0	20% of	total covor:	0	Total % Cover of: Multiply by:
		20% 01		0	OBL species x 1 =
Sapling Stratum (Plot size:					FACW species x 2 =
1. Juniperus virginiana		5	Y	FACU	FAC species 20 x 3 = 60
2					FACU species x 4 = 360
3					
					UPL species35 x 5 =175
4					Column Totals: <u>145</u> (A) <u>595</u> (B)
5					4.40
6					Prevalence Index = B/A =4.10
		5	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover:2.	5 20% of	total cover:	1	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:		20/001	.5.0. 50701.	<u> </u>	2 - Dominance Test is >50%
		_	Ň		3 - Prevalence Index is $\leq 3.0^{1}$
2					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3					
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		6			
			= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: <u>2.5</u>				
Herh Stratum (Plot size)	50% of total cover: <u>2.5</u> 5')				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5')	20% of	total cover:	1	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Daucus carota		20% of	total cover: <u>N</u>	1 UPL	Tree – Woody plants, excluding woody vines,
1. Daucus carota 2. Symphyotrichum pilosum	5')	20% of 15 20	total cover: <u>N</u> N	1 UPL FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
1. Daucus carota	5')	20% of 	total cover: <u>N</u> N	1 UPL	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
1. Daucus carota 2. Symphyotrichum pilosum)	20% of 15 20	total cover: N N N	1 UPL FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Daucus carota Symphyotrichum pilosum Trifolium pratense Schedonorus arundinaceus)	20% of 15 20 5 80	total cover: N N N Y	1 UPL FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
 Daucus carota Symphyotrichum pilosum Trifolium pratense Schedonorus arundinaceus Plantago lanceolata 	<u>5'</u>)	20% of <u>15</u> 20 5 80 15	total cover: N N Y N	1 FAC FACU FACU UPL	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
 Daucus carota Symphyotrichum pilosum Trifolium pratense Schedonorus arundinaceus Plantago lanceolata 6. 	<u>5'</u>)	20% of <u>15</u> <u>20</u> <u>5</u> <u>80</u> <u>15</u>	N N N Y N	1 FAC FACU FACU UPL	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
1. Daucus carota 2. Symphyotrichum pilosum 3. Trifolium pratense 4. Schedonorus arundinaceus 5. Plantago lanceolata 6. 7.	<u>5')</u>) s	20% of <u>15</u> <u>20</u> <u>5</u> <u>80</u> <u>15</u>	total cover: N N Y N N	1 FAC FACU FACU UPL	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
 Daucus carota Symphyotrichum pilosum Trifolium pratense Schedonorus arundinaceus Plantago lanceolata 6. 	<u>5')</u>) s	20% of <u>15</u> <u>20</u> <u>5</u> <u>80</u> <u>15</u>	total cover: N N Y N N	1 FAC FACU FACU UPL	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
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SOIL

Profile Description: (Describe to the dept	h needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
<u>0 — 16 10YR 3/2 100</u>		Clay loam
<u> </u>		
<u> </u>		
<u> </u>		
<u> </u>		
¹ Type: C=Concentration, D=Depletion, RM=I	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(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)	\square Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148) Sandy Gleyed Matrix (S4)	MLRA 136)	³ Indicators of hydrophytic vegetation and
\square Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	
Restrictive Layer (if observed): Yes		() unless disturbed of problematic.
Type: _ ^{Clay}		
Depth (inches): ¹⁶	_	Hydric Soil Present? Yes NoX
Remarks:		
Remarks.		



View: North

Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Highland			Sampling Da	ate: 10)/04/2019
Applicant/Owner: <u>AEP</u>		State:	OH	Sampling	Point:	Upland HM-028
Investigator(s): MJA, DMS	Section, Township, Range: Oh	nio Surveys V	/IRGINIA MIL	ITARY DISTRIC	T OH93	Highland Lot 1568
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, nor	ne): Flat			Slope	(%): 1
Subregion (LRR or MLRA): LRR Lat: 39.06205	Long:		-83.39	9949 D	atum:	WGS 84
Soil Map Unit Name: <u>Algiers silt loam</u>		NWI	l classifica	tion: N/A		
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes <u>X</u> No ((If no, exp	plain in Re	marks.)		
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal	I Circumst	tances" pre	esent? Yes	X	No
Are Vegetation _, Soil _, or Hydrologynaturally	y problematic? (If needed, e	explain an	ny answers	in Remarks	s.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	X X X	Is the Sampled Area within a Wetland?	Yes	No	x
Remarks: Data point situated on flat terrace, in old	d field, under tra	nsmiss	sion line.				
Field ID: U-MJA-100419-01							

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3)	
Water Marks (B1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	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 _X Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches):	
	Hydrology Present? Yes NoX
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if av	ailable:
Remarks:	

50% of total cov	er: 0 20% of	f total cover:	0	
				Present? Yes No X
	0	= Total Cove	۶r	Vegetation
5				Hydrophytic
4		·		
3				
2				
1				
Woody Vine Stratum (Plot size: 30')			
	er: <u>72</u> 20% of	total cover:	29	
		= Total Cove		
11				Woody vine – All woody vines, regardless of height.
10				ft (1 m) in height.
9				plants, except woody vines, less than approximately 3
8				herbaceous vines, regardless of size, and woody
7				Herb – All herbaceous (non-woody) plants, including
6. Symphyotrichum pilosum	5	N	FAC	approximately 3 to 20 ft (1 to 6 m) in height.
5Persicaria sagittata	3	N	OBL	Shrub – Woody plants, excluding woody vines,
4. Fallopia convolvulus	5	N	FACU	than 3 in. (7.6 cm) DBH.
3. Agrimonia parviflora	15	N	FACW	approximately 20 ft (6 m) or more in height and less
2. Solidago canadensis	45	Y	FACU	Sapling – Woody plants, excluding woody vines,
1. Schedonorus arundinaceus	70		FACU	(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 5')				approximately 20 ft (6 m) or more in height and 3 in.
	er: <u>10</u> 20% of	f total cover:	4	Tree – Woody plants, excluding woody vines,
				Definitions of Five Vegetation Strata:
		= Total Cove		be present, unless disturbed or problematic.
6		·		¹ Indicators of hydric soil and wetland hydrology must
5				
4				Problematic Hydrophytic Vegetation ¹ (Explain)
3				data in Remarks or on a separate sheet)
2				4 - Morphological Adaptations ¹ (Provide supporting
1. Rubus allegheniensis	20	Y	FACU	3 - Prevalence Index is ≤3.0 ¹
Shrub Stratum (Plot size: 15'				2 - Dominance Test is >50%
50% of total cov	er: <u>8</u> 20% of	f total cover:	3	1 - Rapid Test for Hydrophytic Vegetation
	15	= Total Cove	÷r	Hydrophytic Vegetation Indicators:
6				
5				Provalance Index = R/A = 3.59
4				Column Totals: <u>181</u> (A) <u>650</u> (B)
3				UPL species0 x 5 =0
				FACU species143 x 4 =572
2				FAC species $5 \times 3 = 15$
<u></u>	15	Y	FACW	FACW species $30 \times 2 = 60$
Sapling Stratum (Plot size: 15'		-		OBL species 3 x 1 = 3
50% of total cov	er: <u>2</u> 20% of	f total cover:	1	Total % Cover of: Multiply by:
	3	= Total Cove	ər	Prevalence Index worksheet:
6				Drevelance Index
5				That Are OBL, FACW, or FAC:25.00 (A/B)
4		·		Percent of Dominant Species
3		·		Species Across All Strata:4 (B)
2		·		Total Number of Dominant
1. Juniperus virginiana	3	N	FACU	That Are OBL, FACW, or FAC: 1 (A)
Tree Stratum (Plot size: 30')	% Cover	Species?		Number of Dominant Species
	Absolute	Dominant	Indicator	Dominance Test worksheet:

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docum	ent the i	ndicator o	or confirm	the absence of	indicators.)	
Depth	Matrix		Redox	Features	\$	0			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 — 18	10YR 4/3	100					Silty loam		
			<u> </u>						
			<u></u>						
_									
¹ Type: C=Co	oncentration, D=Depl	etion, RM=R	Reduced Matrix, MS	=Masked	Sand Gra	ains.		Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicator	rs for Problematic Hydric So	oils³:
Histosol	(A1)		Dark Surface	(S7)			🔲 2 cm	Muck (A10) (MLRA 147)	
🔲 Histic Ep	pipedon (A2)		Polyvalue Bel	ow Surfac	ce (S8) (M	LRA 147,	148) 🗌 Coas	st Prairie Redox (A16)	
Black Hi			Thin Dark Su	face (S9)	(MLRA 1	47, 148)		ILRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye					mont Floodplain Soils (F19)	
	Layers (A5)		Depleted Mat		_/			ILRA 136, 147)	
	ck (A10) (LRR N)		Redox Dark S		6)			Shallow Dark Surface (TF12))
	Below Dark Surface	(A11)	Depleted Dark					r (Explain in Remarks))
	rk Surface (A12)	, (ATT)	Redox Depres		. ,				
	lucky Mineral (S1) (L	KK N,			es (F12) (KKN,			
	147, 148)		MLRA 136				3		
	leyed Matrix (S4)		Umbric Surfac					ors of hydrophytic vegetation	
	edox (S5)		Piedmont Flo					nd hydrology must be present,	,
	Matrix (S6)		Red Parent M	laterial (F2	21) (MLR /	A 127, 147	') unless	s disturbed or problematic.	
Restrictive L	ayer (if observed):	No							
Туре:									
	ches):						Hydric Soil Pre	esent? Yes No _	Х
Remarks:									



Southeast

Soil profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County:	Highland			Sampling [Date: 10	0/04/2019
Applicant/Owner: AEP			State:	011	Sampling	g Point:	Upland HM-029
Investigator(s): MJA, DMS	Section, Tow	/nship, Range: <u>(</u>	Dhio Surveys '	VIRGINIA MI	LITARY DISTR	ICT OH93	Highland Lot 1568
Landform (hillslope, terrace, etc.): Hillside	Local relief (con	cave, convex, n	one): <u>Con</u>	vex		Slope	e (%): <u>5</u>
Subregion (LRR or MLRA): LRR N Lat: 39.06023		Long:		-83.3	9372	Datum:	WGS 84
Soil Map Unit Name: Berks-Muskingum channery silt loams, 18 to	35 percent slope	S	NW	l classifica	ation: N/A		
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X	No	(If no, ex	plain in Re	emarks.)		
Are Vegetation, Soil, or Hydrology significa	antly disturbed?	Are "Norm	al Circums	stances" p	resent? Ye	es X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic?	(If needed,	explain ar	ny answer	rs in Remarl	ks.)	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Data point situated on west-facing slope Field ID: U-MJA-100419-02	Yes No Yes No Yes No e, along access road	o <u>X</u> o <u>X</u>	Is the Sampled Area within a Wetland? sion line.	Yes	No
HYDROLOGY					
Wetland Hydrology Indicators: Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Aquatic Fauna (B13)	True Hydr Oxid Pres Rece Thin Othe	e Aquatic Plants (rogen Sulfide Ode lized Rhizosphere sence of Reduced	or (C1) es on Living Roots (C3) I Iron (C4) n in Tilled Soils (C6) C7)	Surface Soil Crac Sparsely Vegetat Drainage Pattern Moss Trim Lines Dry-Season Wate Crayfish Burrows	ted Concave Surface (B8) s (B10) (B16) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2) (D3) c Relief (D4)
Water Table Present? Yes	No <u>X</u> Dep No <u>X</u> Dep No <u>X</u> Dep je, monitoring well, a	oth (inches): oth (inches):	Wetland H		Yes NoX
Remarks:					

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30')	% Cover	Species?	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC:0 (A)
2					Total Number of Dominant
3					Species Across All Strata: (B)
4					Demonst of Dominant Species
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)
6					Prevalence Index worksheet:
		0	= Total Cov	er	
	50% of total cover: 0	20% of	total cover:	0	
Sapling Stratum (Plot size:	15')				OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
1					FAC w species $20 \times 3 = 60$
2					
3					
4					UPL species <u>15</u> x 5 = <u>75</u>
5					Column Totals: <u>135</u> (A) <u>535</u> (B)
6					Prevalence Index = B/A =3.96
			= Total Cov		Hydrophytic Vegetation Indicators:
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:					2 - Dominance Test is >50%
1					3 - Prevalence Index is $≤3.0^1$
2					4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
6					¹ Indicators of hydric soil and wetland hydrology must
0			= Total Cov		be present, unless disturbed or problematic.
	500/ s(tablesses 0				Definitions of Five Vegetation Strata:
	50% of total cover: <u>0</u>	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:				FAOL	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Schedonorus arundinaceus		00	<u> </u>	FACU FAC	
2. Symphyotrichum pilosum					Sapling – Woody plants, excluding woody vines,
					approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4 Trifolium pratense		15	<u> </u>	FACU	
5. Taraxacum officinale		5	<u> </u>	FACU	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6					
7					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11			Total Cau		
			= Total Cov		
	50% of total cover: <u>68</u>	20% of	total cover:	27	
Woody Vine Stratum (Plot size					
1					
2					
3					
4					
5					Hydrophytic
			= Total Cov		Vegetation Present? Yes <u>No X</u>
	50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo num)	bers here or on a separate s	sheet.)			

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) <u>%</u> <u>Type¹ Loc²</u>	Texture Remarks
<u>0 — 12</u> <u>10YR 5/3</u> <u>100</u>		Silty loam With gravel
	Deduced Matrix, MS, Masked Sand Crains	² Location: DL Data Lining M Matrix
¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators:	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
-		
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(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)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present.
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Sandy Redox (S5) Stripped Matrix (S6)	 Piedmont Floodplain Soils (F19) (MLRA 14 Red Parent Material (F21) (MLRA 127, 147 	
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes		
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
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Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>12</u>		unless disturbed or problematic.



North

Soil profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Adams		Sampling Date:	10/03/2019
Applicant/Owner: <u>AEP</u>		State: OH	_ Sampling Poir	nt: <u>Upland HM-030</u>
Investigator(s): Keith D'Angiolillo, Jamie Morgan	Section, Township, Range:	Ohio Surveys VIRGINIA MI	LITARY DISTRICT C	H93Adams Lot 7372
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex,	none): <u>Undulating</u>	Slo	pe (%): <u>8</u>
Subregion (LRR or MLRA): LRR N Lat: 39.04791	Long:	-83.30	6686 Datur	m: WGS 84
Soil Map Unit Name: Bratton-Opequon complex, 8 to 15 percent sl	opes, eroded	NWI classifica	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time o	f year? Yes X No	_ (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significat	ntly disturbed? Are "Norr	nal Circumstances" pr	resent? Yes	X No
Are Vegetation _, Soil, or Hydrology naturally	problematic? (If needed	d, explain any answers	s in Remarks.)	

Hydrophytic Vegetation Present?	Yes	No <u> X</u>	Is the Sampled Area		Y	
Hydric Soil Present?	Yes	No <u> X</u>	within a Wetland?	Yes	No	
Wetland Hydrology Present?	Yes	No <u>X</u>				
Remarks:			·			
Fallow agricultural field/pasture						
Field ID: U-KJD-100319-01						
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicato	rs (minimum of two rec	<u>uired)</u>
Primary Indicators (minimum of one is	required; che	ck all that apply)		Surface Soil Ci	acks (B6)	
Surface Water (A1)		True Aquatic Plants	(B14)	Sparsely Vege	tated Concave Surface	e (B8)
High Water Table (A2)		Undrogon Sulfido O	dor(C1)	Drainaga Datta	$r_{\rm PO}$ (P10)	

Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	 True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rd Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks) 	Dry-Season Water Table (C2)
🔲 Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
	X Depth (inches):	
Water Table Present? Yes No	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	X Depth (inches):	Wetland Hydrology Present? Yes NoX
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspectio	ons), if available:
Remarks:		

	•	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30')		Species?		Number of Dominant Species
1					That Are OBL, FACW, or FAC: 0 (A)
2					
					Total Number of Dominant
3					Species Across All Strata: 2 (B)
4					Percent of Dominant Species
5				·	That Are OBL, FACW, or FAC: 0.00 (A/B)
6			·		Prevalence Index worksheet:
		0	= Total Cov	/er	
	50% of total cover: 0	20% of	total cover	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:					OBL species x 1 =
	/				FACW species10 x 2 =20
1					FAC species x 3 = 0
2					FACU species 95 x 4 = 380
3					UPL species0 x 5 =0
4					Column Totals: <u>105</u> (A) <u>400</u> (B)
5					
6					Prevalence Index = $B/A = 3.81$
			= Total Cov		Hydrophytic Vegetation Indicators:
					1 - Rapid Test for Hydrophytic Vegetation
	50% of total cover: 0	20% of	total cover	0	
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 ¹
2					4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					¹ Indicators of hydric soil and wetland hydrology must
6				·	be present, unless disturbed or problematic.
		0	= Total Cov	ver	Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5')				approximately 20 ft (6 m) or more in height and 3 in.
1. Symphyotrichum ericoides		35	Y	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
		50		FACU	
3 Solanum carolinense		40		FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
•1					than 3 in. (7.6 cm) DBH.
4. Vernonia noveboracensis		10	N	FACW	
5			·		Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					
				·	Woody vine – All woody vines, regardless of height.
11				·	
		105	= Total Cov	rer	
	50% of total cover: 53	20% of	total cover	21	
Woody Vine Stratum (Plot size	e: 30')				
1					
2					
3					
4				·	
5					Hydrophytic
		0	= Total Cov	/er	Vegetation
	50% of total cover:0	20% of	total cover	0	Present? Yes <u>No X</u>
Remarks: (Include photo numb	pers here or on a separate s	neet.)			

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Profile Description: (Describe to the de	pth needed to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0 — 18 10YR 3/2 100		Clay loam
	·	
· ·		
	·	
—		
	·	<u> </u>
_		
	·	·
	·	
¹ Type: C=Concentration, D=Depletion, R	/I=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	☐ Thin Dark Surface (S9) (MLRA 147, 148)	(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)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	
Restrictive Layer (if observed): No		
-		
•••		
Depth (inches):		Hydric Soil Present? Yes No _X
Remarks:		



View facing north

View facing east



View facing south

View facing west

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Adams	Sampling Date: 10/02/2019
Applicant/Owner: AEP	State:	
Investigator(s): MJA	Section, Township, Range: Ohio Surveys	VIRGINIA MILITARY DISTRICT OH93Adams Lot 7372
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none): Non	e Slope (%): 0
Subregion (LRR or MLRA): LRR N Lat: 39.04684	Long: <u>-83.36474</u>	Datum: WGS 84
Soil Map Unit Name: Opequon silty clay loam, 15 to 25 percent slo	opes, eroded NW	l classification: <u>N/A</u>
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, ex	plain in Remarks.)
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal Circums	tances" present? Yes X No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, explain ar	ny answers in Remarks.)

Hydrophytic Vegetation Present?	Yes	No		Is the Sampled A	\rea			x		
Hydric Soil Present?	Yes	No	Х	within a Wetland	?	Yes	N	lo		
Wetland Hydrology Present?	Yes	_ No_	Х							
Remarks:										
Upland data point situated on mowe Field ID: U-MJA-100219-0	əd terrace, under tr	ansmiss	sion line.							
HYDROLOGY										
Wetland Hydrology Indicators:					Sr	econdary Indic	ators (r	minimum	of two require	ed)
Primary Indicators (minimum of on	e is required: checl	c all that	apply)		Ē	Surface Soil				
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Water-Stained Leaves (B9) Aquatic Fauna (B13) Field Observations: Surface Water Present? Ye		True Ao Hydrog Oxidize Presen Recent Thin Mi Other (Other ((inches):	lor (C1) res on Living Roots of d Iron (C4) on in Tilled Soils (C6 C7) marks)	6) [[[[[Sparsely Ve Drainage Pa Moss Trim L Dry-Season Crayfish Bu	egetated atterns Lines (E Water rrows (/isible c Stressed : Positic uitard (I aphic F I Test (d Concav (B10) B16) Table (C (C8) on Aerial ed Plants ion (D2) D3) Relief (D4 (D5)	Imagery (C9) (D1) 4)	
(includes capillary fringe) Describe Recorded Data (stream g	jauge, monitoring v	vell, aeri	ial photos, pre	evious inspections),	if availa	ble:				
Remarks:										

			Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:			Species?		Number of Dominant Species
1					That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3					Species Across All Strata: 2 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: (A/B)
6					Prevalence Index worksheet:
			= Total Cov		Total % Cover of:Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species x 1 =
Sapling Stratum (Plot size:	15')				FACW species x 2 =
1					FAC species x 3 =225
2					FACU species 45 x 4 = 180
3					UPL species x 5 =
4					Column Totals: (A) (B)
5					
6					Prevalence Index = B/A = 3.38
			= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%
1					$_$ 3 - Prevalence Index is $\leq 3.0^1$
2					4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
6					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		0 :	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover:	0	
Herb Stratum (Plot size:					Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
		75	Y	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
a Tarayaaym officiaala		45		FACU	Sapling – Woody plants, excluding woody vines,
a Trifalium protonog		20		FACU	approximately 20 ft (6 m) or more in height and less
4					than 3 in. (7.6 cm) DBH.
5.					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					
11					Woody vine – All woody vines, regardless of height.
		120	= Total Cov	er	
	50% of total cover: 60	20% of	total cover.	24	
Woody Vine Stratum (Plot size					
1					
2					
3					
4					
5					
			= Total Cov	er	Hydrophytic Vegetation
	50% of total accuration				Present? Yes <u>No X</u>
	50% of total cover: 0		iotal cover:	0	
Remarks: (Include photo num	pers here or on a separate s	sneet.)			

Profile Description: (Describe to the depth	needed to document the indicator or confirm	n the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
<u>0 — 4</u> 10YR 4/3 100		Silt loam Very compacted
_		
<u> </u>		
_		
-		
¹ Type: C=Concentration, D=Depletion, RM=R	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	, 148) Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(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)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 14	
Restrictive Layer (if observed): Yes		
Type: _ ^{Compacted/Gravel}		
Depth (inches): <u>4</u>	—	Hydric Soil Present? Yes NoX
Remarks:		
Remarks.		



North

Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: <u>Adams</u>		_ Sampling Date	e: 10/04/2019
Applicant/Owner: <u>AEP</u>		State: OH	Sampling P	oint: <u>Upland HM-03</u>
Investigator(s): Keith D'Angiolillo, Jamie Morgan	Section, Township, Range:	Ohio Surveys VIRGINIA	MILITARY DISTRIC	T OH93Adams Lot 6276
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex,	none): Flat	S	Blope (%): <u>5</u>
Subregion (LRR or MLRA): LRR N Lat: <u>39.04541</u>	Long:	-83	.36200 Dat	tum: WGS 84
Soil Map Unit Name: Opequon silty clay loam, 15 to 25 percent slo	pes, eroded	NWI classifi	cation: N/A	
Are climatic / hydrologic conditions on the site typical for this time o	f year? Yes X No	_ (If no, explain in I	Remarks.)	
Are Vegetation, Soil, or Hydrology significan	ntly disturbed? Are "Norr	nal Circumstances"	present? Yes	X No
Are Vegetation _, Soil, or Hydrology naturally	problematic? (If needed	d, explain any answ	ers in Remarks.))

Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No			
Remarks: Shrubby low area between wetland and agricultural field							
Field ID: U-KJD-100419-01							
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13)	True Aquatic Plants (Hydrogen Sulfide Od	or (C1) es on Living Roots (C3) H Iron (C4) n in Tilled Soils (C6) C7)	Surface Soil Crack Sparsely Vegetate Drainage Patterns Moss Trim Lines (Dry-Season Wate Crayfish Burrows	ed Concave Surface (B8) s (B10) (B16) er Table (C2) (C8) en Aerial Imagery (C9) ed Plants (D1) tion (D2) (D3) Relief (D4)			
Water Table Present? Yes No _X	Depth (inches): Depth (inches): Depth (inches): g well, aerial photos, pre	Wetland F		Yes NoX			
Remarks: No hydrology							

5 50% of total cover:	0	= Total Cov	ver	Hydrophytic Vegetation Present? Yes <u>No X</u>
5				
5				Hydrophytic
4		·		
3		·		
2				
1				
Woody Vine Stratum (Plot size: 30')				
50% of total cover:	<u>35</u> 20% of	total cover	14	
		= Total Cov		
11				
10				Woody vine – All woody vines, regardless of height.
9				ft (1 m) in height.
8				plants, except woody vines, less than approximately 3
7				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
6				
0		·	·	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
	25	<u>Y</u>	FACU	
3. Ageratina altissima 4. Festuca rubra		·		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
2. Daucus carota	10	· · · · · · · · · · · · · · · · · · ·	FACU	Sapling – Woody plants, excluding woody vines,
1. Verbesina alternifolia		<u>Y</u> N	FAC UPL	
	00	V	FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of total cover:	<u>1</u> J 20% 01	IOIAI COVER	6	Tree – Woody plants, excluding woody vines,
EOO/ oftatal action				Definitions of Five Vegetation Strata:
		= Total Cov	ver	· · ·
6		·	·	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				1
4				Problematic Hydrophytic Vegetation ¹ (Explain)
3				data in Remarks or on a separate sheet)
2. Rhus copallinum	10	Y		4 - Morphological Adaptations ¹ (Provide supporting
1Rubus idaeus	20	Y	FAC	3 - Prevalence Index is ≤3.0 ¹
 Shrub Stratum (Plot size:15')	—			2 - Dominance Test is >50%
50% of total cover:	5 20% of	total cover	2	1 - Rapid Test for Hydrophytic Vegetation
	10	= Total Cov	/er	Hydrophytic Vegetation Indicators:
6		·		Prevalence Index = B/A = 3.73
5				
4				Column Totals: <u>110</u> (A) <u>410</u> (B)
3				UPL species $10 \times 5 = 50$
2		·		FACU species 60 x 4 =240
1. Prunus serotina	10	Y	FACU	FAC species
Sapling Stratum (Plot size:15')				FACW species $0 \times 2 = 0$
50% of total cover:	0 20% of	total cover	0	OBL species 0 x 1 = 0
		= Total Cov		Total % Cover of: Multiply by:
6				Prevalence Index worksheet:
5				That Are OBL, FACW, or FAC:33.33 (A/B)
4				Percent of Dominant Species
3				Species Across All Strata:6 (B)
2				Total Number of Dominant
1		·	·	That Are OBL, FACW, or FAC: (A)
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
	Absolute	- Dominant	Indicator	Dominance Test worksheet:

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Profile Desc	ription: (Describe t	o the depth	needed to docu	ment the i	ndicator	or confirn	n the absence o	of indicators.)	
Depth (inchos)	<u>Matrix</u>	%	Redo Color (moist)	<u>x Features</u> %	s Type ¹	Loc ²	Texture	Rema	orko
(inches)	Color (moist)		Color (moist)	<u> </u>	<u> </u>	LOC		Rema	arks
0 — 12	10YR 4/3	100					Loam		
—									
·							. <u> </u>		
							<u> </u>		
_									
							<u> </u>		
—									
							<u> </u>		
¹ Type: C=Cc	oncentration, D=Depl	etion RM=R	Reduced Matrix M	S=Masked	Sand Gra	ains	² l ocation: Pl =	=Pore Lining, M=M	atrix
Hydric Soil I				o maonea		anio.		ors for Problemat	
				(07)				m Muck (A10) (ML	•
	. ,		Dark Surface					ast Prairie Redox (,
	pipedon (A2)								(A10)
Black His			Thin Dark Su			47, 148)		(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye		FZ)			edmont Floodplain	Solis (F19)
	Layers (A5)		Depleted Ma		· 0)			(MLRA 136, 147)	
	ck (A10) (LRR N)	()	Redox Dark	· ·	,			ry Shallow Dark Su	
	Below Dark Surface	e (A11)	Depleted Da		· · /			ner (Explain in Rem	narks)
	ark Surface (A12)								
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (I	LRR N,			
	147, 148)		MLRA 13				2		
	leyed Matrix (S4)		Umbric Surfa					ators of hydrophyti	
	edox (S5)		Piedmont Flo					and hydrology mus	
	Matrix (S6)		Red Parent I	Material (F	21) (MLR	A 127, 147	7) unle	ss disturbed or pro	blematic.
	ayer (if observed):	Yes							
Type: <u>Ro</u>	ock								
Depth (inc	ches): <u>12</u>						Hydric Soil P	Present? Yes	No X
Remarks:	,								
Remarks.									
1									

View of vegetation facing north



Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: <u>Adams</u>		Sampling Date:	10/04/2019
Applicant/Owner: <u>AEP</u>		State: OH	_ Sampling Poi	nt: Upland HM-033
Investigator(s): Keith D'Angiolillo, Jamie Morgan	Section, Township, Range:	Ohio Surveys VIRGINIA M	ILITARY DISTRICT	OH93Adams Lot 6276
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex,	none): Flat	Slo	ope (%): <u>5</u>
Subregion (LRR or MLRA): LRR N Lat: <u>39.04356</u>	Long:	-83.3	5780 Datu	m: WGS 84
Soil Map Unit Name: Bratton-Opequon complex, 8 to 15 percent slo	opes, eroded	NWI classifica	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes X No	_ (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significar	ntly disturbed? Are "Norr	nal Circumstances" pi	resent? Yes	X No
Are Vegetation _, Soil, or Hydrology naturally	problematic? (If needed	d, explain any answer	s in Remarks.)	

Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present?	Yes	No No	Х	Is the Sampled Area within a Wetland?	Yes	No
Remarks: Fallow farm field						
Field ID: U-KJD-100419-02						
Wetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Water-Stained Leaves (B9 Aquatic Fauna (B13)	<u>f one is required:</u> al Imagery (B7)	True Ao Hydrog Oxidize Presen Recent Thin Mu	quatic Plants en Sulfide Oc d Rhizospher ce of Reduce	dor (C1) res on Living Roots (C3) d Iron (C4) on in Tilled Soils (C6) C7)	Surface Soil Cr Sparsely Veget Drainage Patte Moss Trim Line Dry-Season Wa Crayfish Burrov Saturation Visit	rated Concave Surface (B8) rns (B10) es (B16) ater Table (C2) vs (C8) ble on Aerial Imagery (C9) ssed Plants (D1) osition (D2) rd (D3) nic Relief (D4)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream	Yes No _ Yes No _ Yes No _ am gauge, monito	X Depth X Depth	(inches): (inches):	Wetland	Hydrology Present? ailable:	Yes NoX
Remarks:						

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:	30')	% Cover	Species?	Status	Number of Dominant Species		
1					That Are OBL, FACW, or FAC:	1	(A)
2					Total Number of Dominant		
3					Species Across All Strata:	2	(B)
4							()
5					Percent of Dominant Species That Are OBL, FACW, or FAC:	50.00	(A/B)
6							(700)
			= Total Cov		Prevalence Index worksheet:		
	50% of total cover: <u>0</u>	20% of	total cover	0		tiply by:	
Sapling Stratum (Plot size:		20 /0 01			OBL species x 1 =	0	
	,				FACW species x 2 =	0	
1					FAC species x 3 =	135	
2					FACU species x 4 =	80	
3					UPL species 20 x 5 =	100	
4					Column Totals: 85 (A)		(B)
5							_ ()
6						3.71	
		0	= Total Cov	er	Hydrophytic Vegetation Indicators:		
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Veg	getation	
Shrub Stratum (Plot size:					2 - Dominance Test is >50%		
 					3 - Prevalence Index is ≤3.0 ¹		
2					4 - Morphological Adaptations ¹ (P		porting
3					data in Remarks or on a separa	,	
4					Problematic Hydrophytic Vegetation	on ¹ (Explai	in)
5					¹ Indicators of hydric soil and wetland h		nust
6					be present, unless disturbed or problem		
			= Total Cov		Definitions of Five Vegetation Strata	a:	
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding wood	v vines.	
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in he	eight and 3	B in.
1. Juncus tenuis		15	N	FAC	(7.6 cm) or larger in diameter at breast	t height (D	BH).
2. Andropogon virginicus		10	N	FACU	Sapling – Woody plants, excluding wo	ody vines.	
3. Setaria faberi		20	Y	UPL	approximately 20 ft (6 m) or more in he	eight and le	ess
4. Symphyotrichum ericoides		10	Ν	FACU	than 3 in. (7.6 cm) DBH.		
5_ Agrostis scabra		30	Y	FAC	Shrub – Woody plants, excluding woo	dy vines,	
6					approximately 3 to 20 ft (1 to 6 m) in h		
7					Herb – All herbaceous (non-woody) pl	ants inclu	dina
8					herbaceous vines, regardless of size, a		
9					plants, except woody vines, less than a	approxima	tely 3
					ft (1 m) in height.		
10					Woody vine – All woody vines, regard	lless of hei	ight.
11							-
		85	= Total Cov	er			
	50% of total cover: 43	20% of	total cover:	17			
Woody Vine Stratum (Plot size	e: <u>30'</u>)						
1							
2							
3							
4							
5							
			= Total Cov	er	Hydrophytic Vegetation		
	C00/ - ft-t-1 0				Present? Yes <u>No</u>	X	
	50% of total cover: 0		total cover:	0	·		
Remarks: (Include photo num	pers here or on a separate s	sheet.)					

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Profile Description: (Describe to the de	pth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	<u>Color (moist)</u> % <u>Type¹</u> Loc ²	Texture Remarks
0 — 18 10YR 4/2 100		Clay loam
—		
—		
· ·		
—		
· · ·		
—		
<u> </u>		2
	I=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	_	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	148) 🔲 Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(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)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.
Restrictive Layer (if observed): No		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No _X
Remarks:		,
Nelliaiks.		

General Site Photos

Upland HM-033







View facing north of vegetation in fallow field

Project/Site: AEP Hillsboro to Millbrook Park	City/County: <u>Adams</u>		Sampling Date: ¹	0/04/2019
Applicant/Owner: AEP		tate: OH	_ Sampling Point:	Upland HM-034
Investigator(s): Keith D'Angiolillo, Jamie Morgan	Section, Township, Range: Ohio Su	irveys VIRGINIA MIL	ITARY DISTRICT OH9	3Adams Lot 16147
Landform (hillslope, terrace, etc.): Mountainslope	Local relief (concave, convex, none):	Concave	Slope	e (%): <u>30</u>
Subregion (LRR or MLRA): LRR N Lat: 39.04132	Long:	-83.35	225 Datum:	WGS 84
Soil Map Unit Name: <u>Shelocta-Muse-Colyer association, steep</u>		NWI classifica	tion: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If n	o, explain in Re	marks.)	
Are Vegetation 🧹 , Soil, or Hydrology significa	antly disturbed? Are "Normal Cir	cumstances" pre	esent? Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, expla	ain any answers	in Remarks.)	

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 <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Maintained electric transmission right-o	f-way. Vegetatio	on periodically mowe	ed. Contains dense saplings o	n slope.	
Field ID: U-KJD-100419-03					

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required	l; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Drainage Patterns (B10)	
Saturation (A3)	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 So	oils (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	X Depth (inches):	
Water Table Present? Yes No	X Depth (inches):	
water rable Present? Yes No	Deptil (illelies)	
Saturation Present? Yes No	Depth (inches):	Wetland Hydrology Present? Yes NoX
	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, moni	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, moni	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, moni	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, moni	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, moni	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, moni	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, moni	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, moni	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, moni	X Depth (inches):	
Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, moni	X Depth (inches):	

1		Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 1			Species?		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3					Total Number of Dominant Species Across All Strata:5(B)
4 5					Percent of Dominant Species That Are OBL, FACW, or FAC:40.00 (A/B
6					That Are OBE, FACW, of FAC (A/B
·			= Total Cov		Prevalence Index worksheet:
	50% of total cover:0				Total % Cover of: Multiply by:
Conling Stratum (Distaire)		20% 01	total cover.	0	OBL species x 1 =0
Sapling Stratum (Plot size:	/	65	Y	FACU	FACW species0 x 2 =0
 Sassafras albidum 		5	 N	FACU	FAC species 15 x 3 = 45
				FACU	FACU species 105 x 4 = 420
					UPL species 0 x 5 = 0
4					Column Totals: <u>120</u> (A) <u>465</u> (B)
5 6					Prevalence Index = B/A = <u>3.88</u>
		80	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: 40	20% of	total cover:	16	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:					2 - Dominance Test is >50%
. Bulancially all and and a	,	20	Y	FACU	3 - Prevalence Index is ≤3.0 ¹
		~	Y	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
6					¹ Indicators of hydric soil and wetland hydrology must
0			= Total Cov		be present, unless disturbed or problematic.
					Definitions of Five Vegetation Strata:
	50% of total cover: <u>12.5</u>				Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:		20% of	total cover:	5	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1 Microstegium vimineum)	20% of	total cover:	5 FAC	Tree – Woody plants, excluding woody vines,
)	20% of	total cover:	5	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
1 Microstegium vimineum	5')	20% of	total cover:	5 FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Microstegium vimineum 2. Polystichum acrostichoides 3.	<u>5'</u>)	<u> </u>	total cover: 	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
1. Microstegium vimineum 2. Polystichum acrostichoides 3. . 4. . 5. . 6. .	<u>5'</u>)	20% of <u>10</u> <u>5</u> <u></u>	total cover: 	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3. . 4. . 5. . 6. . 7. .)	5 20% of <u>10</u> 5 	total cover: <u>Y</u> <u>Y</u> <u></u>	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	5 20% of 10 5 	total cover: <u>Y</u> <u>Y</u> <u></u>	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	20% of <u>10</u> 5 	Y Y	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	<u> </u>	total cover: Y	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	5 20% of 	total cover:	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	5 20% of 	total cover: Y	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	5 20% of 10 5 	Y Y	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	5 20% of 10 5 	Y Y	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	5 20% of 10 5 	Y Y T Total Cover:	5 FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	5 20% of _	Y Y T Total Cov total cover:	5 FAC FACU 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	520% of 	total cover:	5 FAC FACU er 3	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3.)	5 20% of 10 5 	total cover: <u>Y</u> <u>Y</u> <u></u>	5 FACU FACU 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3)	5 20% of 10 5 	total cover: <u>Y</u> <u>Y</u> <u></u>	5 FACU FACU 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3)	5 20% of 	total cover: <u>Y</u> <u>Y</u> <u></u>	5 FAC FACU er 3	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. Microstegium vimineum 2. Polystichum acrostichoides 3)	<u> 20% of</u> <u> 10</u> <u> 5</u> <u> </u>	total cover: <u>Y</u> <u>Y</u> <u></u>	5 FACU FACU 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic
1. Microstegium vimineum 2. Polystichum acrostichoides 3)	<u> 20% of</u> <u> 10</u> <u> 5</u> <u> </u>	total cover: <u>Y</u> <u>Y</u> <u></u>	5 FACU FACU 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.

SOIL

Profile Desc Depth	ription: (Describe t Matrix	to the depth n		nent the in x Features		or confirm	n the absence	e of indicators.)	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	_Type ¹	Loc ²	Texture	F	Remarks
0 — 18	10YR 5/2	100	·/				Loam	·	
							Loam		
		· ·							
		<u> </u>							
—									
		·							
		·						<u></u>	
		. <u> </u>							
—									
		·							
		<u> </u>						·	
		. <u> </u>							
	oncentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, N	
Hydric Soil I	ndicators:						Indic	ators for Proble	matic Hydric Soils ³ :
Histosol		[Dark Surface					2 cm Muck (A10)	
	ipedon (A2)]	Polyvalue Be		. , .		148) 🔲 🤇	Coast Prairie Red	
Black His]	Thin Dark Su			47, 148)	_	(MLRA 147, 14	
	n Sulfide (A4)	Ļ	Loamy Gleye		F2)			Piedmont Floodpl	· · · ·
	Layers (A5)	Ļ	Depleted Mat		-		— .	(MLRA 136, 14	
	ck (A10) (LRR N)		Redox Dark S						k Surface (TF12)
	Below Dark Surface	e (A11) [Depleted Dar		. ,			Other (Explain in	Remarks)
	ark Surface (A12) lucky Mineral (S1) (L		Redox Depre						
-	ucky Mineral (ST) (L \ 147, 148)	.KK N, <u>I</u>	MLRA 13		es (F12) (LKK N,			
	leyed Matrix (S4)	г	Umbric Surfa		MI RA 13	6 122)	³ Inc	dicators of hydror	phytic vegetation and
	edox (S5)	Ī	Piedmont Flo					etland hydrology	
	Matrix (S6)	1 1	Red Parent N					nless disturbed or	
	_ayer (if observed):	No				,			F
Type:									
	ches):		-				Hydric Soi	I Present? Ye	s No_X
			-				ingune con	intresent: re	
Remarks:									



View facing west of vegetation in ROW



View of soil profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Adams		Sampling Date: <u>1</u>	0/07/2019
Applicant/Owner: AEP		State:	_ Sampling Point	
Investigator(<u>s):</u> MJA, DMS	Section, Township, Range:	Ohio Surveys VIRGINIA MIL	ITARY DISTRICT OH9	3Adams Lot 16147
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, r	none): Convex	Slope	e (%): <u>10</u>
Subregion (LRR or MLRA): LRR N Lat: 39.03784	Long:	-83.34	1535 Datum	WGS 84
Soil Map Unit Name: Shelocta-Muse-Colyer association, steep		NWI classifica	tion: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	_ (If no, explain in Re	marks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Norm	nal Circumstances" pr	esent? Yes <u>X</u>	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed	, explain any answers	s in Remarks.)	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes No					
Remarks: Upland data point situated on south-facing slope, in shrub/old field, under transmission line.									
Field ID: U-MJA-100719-01									
HYDROLOGY									
Wetland Hydrology Indicators: Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image	☐ Tru ☐ Hyu ☐ Ox ☐ Pre ☐ Re ☐ Thi ☐ Ott	ue Aquatic Plants (drogen Sulfide Ode idized Rhizosphere esence of Reduced	or (C1) es on Living Roots (C3) I Iron (C4) n in Tilled Soils (C6) C7)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)					
Water-Stained Leaves (B9) Aquatic Fauna (B13)				Microtopographic Relief (D4) FAC-Neutral Test (D5)					
Field Observations:									
	No X De No X De								
	No <u>X</u> De	epth (inches):	Wetland H	Iydrology Present? Yes NoX ilable:					
Remarks:									

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Liriodendron tulipifera	45	Y	FACU	That Are OBL, FACW, or FAC:(A)
2				
2				Total Number of Dominant
3				Species Across All Strata: 5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.20 (A/E
6				
		= Total Cov		Prevalence Index worksheet:
		-		Total % Cover of:Multiply by:
50% of total cover:	<u>23</u> 20% o	of total cover:	9	OBL species x 1 = 0
Sapling Stratum (Plot size: 15')				FACW species 0 x 2 = 0
1				
				FAC species X 3 = 45
2				FACU species <u>125</u> x 4 = <u>500</u>
3				UPL species x 5 = 0
4				Column Totals: (A) 545 (B
5				
6				Prevalence Index = B/A = 3.89
		= Total Cov		Hydrophytic Vegetation Indicators:
		-		
50% of total cover:	0 20% c	of total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:15')				2 - Dominance Test is >50%
1Rhus copallinum	35	Y	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Rubus allegheniensis		- <u> </u>	FACU	4 - Morphological Adaptations ¹ (Provide supportir
_				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				
6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				be present, unless disturbed of problematic.
	50	= Total Cov	er	
		= Total Cov		Definitions of Five Vegetation Strata:
50% of total cover:		-		
50% of total cover:		-		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5')	<u>25</u> 20% o	-		
Herb Stratum (Plot size: <u>5'</u>) 1. Polystichum acrostichoides	<u>25</u> 20% o	of total cover: <u> </u>	10	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size:) 1. Polystichum acrostichoides 2. Dichanthelium clandestinum	25 20% c	of total cover: Y Y	10 FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum	<u>25</u> 20% o	of total cover: Y Y	10 FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size:) 1. Polystichum acrostichoides 2. Dichanthelium clandestinum	25 20% c	of total cover: Y Y	10 FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum	25 20% c	of total cover: Y Y	10 FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	_25 20% o	- of total cover: Y Y 	10 FACU FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% o 30 15	- of total cover: Y Y 	10 FACU FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	_25 20% (30 15 	- of total cover: Y Y 	10 FACU FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
Herb Stratum (Plot size: 5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	_25 20% o	- of total cover: Y Y - - - - - - - - - - - - - - - - -	10 FACU FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	_25 20% o	- of total cover: Y 	10 FACU FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	_25 20% o	- of total cover: Y 	10 FACU FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% of a second seco	- of total cover: Y 	10 FACU FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	_25 20% (30 15 	- of total cover: Y Y - - - - - - - - - - - - - - - - -	10 FACU FAC 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% of a state of a		10 FACU FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% of a state of a		10 FACU FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% of a state of a		10 FACU FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides	25 20% o 30 15 	Y Y Y Y Y T	10 FACU FAC 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides	25 20% of a second seco	<pre></pre>	10 FACU FAC 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% of a straight of a stra	<pre> f total cover:</pre>	10 FACU FAC 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% c	<pre></pre>	10 FACU FAC 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% of a second seco	<pre></pre>	10 FACU FAC 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% of a second seco	<pre></pre>	10 FACU FAC 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% of a second seco	<pre></pre>	10 FACU FAC 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% of a second seco	<pre></pre>	10 FACU FAC 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic
Herb Stratum (Plot size:5') 1. Polystichum acrostichoides 2. Dichanthelium clandestinum 3	25 20% of a second seco	<pre></pre>	10 FACU FAC 	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation

	ription: (Describe t	to the depth n			cator or confirm	n the absence o	of indicators.)	
Depth (inches)	<u>Matrix</u> Color (moist)	%	Redo: Color (moist)	<u> Features</u>	vpe ¹ Loc ²	Texture	Remarks	
0 — 18	10YR 5/4	100				Clay loam		,
	1011 3/4							
—								
	oncentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked Sa	nd Grains.		=Pore Lining, M=Matrix	
Hydric Soil I		-					tors for Problematic H	•
Histosol		[Dark Surface				cm Muck (A10) (MLRA	
	pipedon (A2)	ļ			S8) (MLRA 147		ast Prairie Redox (A16	5)
Black His		L			LRA 147, 148)		(MLRA 147, 148)	- (510)
	n Sulfide (A4) I Layers (A5)	L	Loamy Gleye Depleted Mat				edmont Floodplain Soil: (MLRA 136, 147)	S (F 19)
	ck (A10) (LRR N)	L T	Redox Dark S				ery Shallow Dark Surfac	се (TF12)
	Below Dark Surface	e (A11)	Depleted Dar		')		her (Explain in Remark	
	nrk Surface (A12)]	Redox Depre		,			/
	lucky Mineral (S1) (L	.RR N, [Iron-Mangane		F12) (LRR N,			
	147, 148)		MLRA 13					
	leyed Matrix (S4)]	Umbric Surfa				cators of hydrophytic ve	
	edox (S5)	ļ		•	(F19) (MLRA 1		land hydrology must be	
	Matrix (S6)	<u> </u>	Red Parent M	laterial (F21)	(MLRA 127, 14	7) unle	ess disturbed or problem	matic.
	ayer (if observed):							
Туре:								
Depth (inc	ches):		-			Hydric Soil F	Present? Yes	NoX
Remarks:								



North

Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Adams	Sam	pling Date: 1	0/08/2019
Applicant/Owner: <u>AEP</u>		State: Sa	ampling Point	Upland HM-036
Investigator(s): MJA, DMS	Section, Township, Range:	Dhio Surveys VIRGINIA MILITARY D	ISTRICT OH93Ada	ms Lot not numbered
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, n	one): <u>Convex</u>	Slope	e (%): <u>10</u>
Subregion (LRR or MLRA): LRR N Lat: 39.03043	Long:	-83.32730) Datum:	WGS 84
Soil Map Unit Name: <u>Shelocta-Muse-Colyer association, steep</u>		NWI classification:	N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in Remar	ks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Norm	al Circumstances" preser	nt? Yes X	No
Are Vegetation _, Soil _, or Hydrologynaturall	y problematic? (If needed	explain any answers in F	Remarks.)	

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 <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	NoX	_
Remarks:						
Upland data point situated on north-fac	ing slope, in old	field, under transmi	ssion line.			
Field ID: U-MJA-100819-01						

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living	Roots (C3) 🔲 Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	oils (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 X Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
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Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')			Species?		Number of Dominant Species
1					That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3					Species Across All Strata: 1 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 100.00 (A/B)
6					Prevalence Index worksheet:
		:	= Total Cov	ər	Total % Cover of: Multiply by:
50% of total cover	r: 0	20% of	total cover:	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size: 15')					FACW species 5 $x = 10$
1					FAC species $x_2 = \frac{10}{270}$
2					FACU species $0 \times 4 = 0$
3					
4					UPL species x 5 =
5					Column Totals: <u>95</u> (A) <u>280</u> (B)
6					Prevalence Index = $B/A = 2.95$
			= Total Cov	ər	Hydrophytic Vegetation Indicators:
50% of total cover	O				1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)		20 /0 01		<u> </u>	X 2 - Dominance Test is >50%
					X 3 - Prevalence Index is $\leq 3.0^1$
1					4 - Morphological Adaptations ¹ (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
4					
5					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		0 =	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover	r: <u>0</u>	20% of	total cover:	0	Tess Massher Isster such die such sie s
Herb Stratum (Plot size: 5')					Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Dichanthelium clandestinum		90	Y	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Persicaria maculosa		5	Ν	FACW	Sapling – Woody plants, excluding woody vines,
3					approximately 20 ft (6 m) or more in height and less
4					than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
10					ft (1 m) in height.
					Woody vine - All woody vines, regardless of height.
11			= Total Cov		
50% of total cover	r: <u>48</u>	20% of	total cover:	19	
Woody Vine Stratum (Plot size: 30')				
1					
2					
3					
4					
5					Hydrophytic
			= Total Cov	ər	Vegetation
50% of total cover	r: 0	20% of	total cover	0	Present? Yes NoX
Remarks: (Include photo numbers here or on a se					
	parato a				

	iption: (Describe to						n the absend		10.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	% (Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 — 18	10YR 4/4	95	10YR 5/8	5	С	Μ	Clay loam	า		
<u> </u>					<u> </u>					
_										
· ·										
_										
					<u> </u>					
_										
	ncentration, D=Deple	tion RM-Rec	luced Matrix M	S-Masked	Sand Gra	ine	² Location:	PL=Pore Lini	na M-Matrix	
Hydric Soil In					Sanu Gra	1115.		icators for Pr		
-		г		(87)						-
Histosol (·		Dark Surface					2 cm Muck (A		
	pedon (A2)	L L	Polyvalue Be				148) 🛄	Coast Prairie)
Black His		F	Thin Dark Su			+7, 140)		(MLRA 14)		(E10)
	Sulfide (A4) Layers (A5)	L L	Loamy Gleye Depleted Ma		2)			Piedmont Flo		S(F19)
	k (A10) (LRR N)		Redox Dark		2)			Very Shallow		o (TE12)
	Below Dark Surface	(A11) [Depleted Dark		,		H	Other (Explai		
	k Surface (A12)		Redox Depre							5)
	icky Mineral (S1) (Li	рры Г	Iron-Mangan							
-	147, 148)	<u> </u>	MLRA 13		5 (F12) (E					
	eyed Matrix (S4)	Г	Umbric Surfa			\$ 122)	³ 1	ndicators of hy	dronhytic ve	detation and
Sandy Ch		F	Piedmont Flo					wetland hydrol		
	Matrix (S6)		Red Parent N					unless disturbe		
	ayer (if observed):	<u> </u>				x 1 <i>21</i> , 14				
	ayer (il observeu).	No								
Туре:										
Depth (incl	nes):						Hydric So	oil Present?	Yes	<u>No X</u>
Remarks:							•			



West

Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Adams	Sa	mpling Date: 1	0/09/2019
Applicant/Owner: AEP		State: S	Sampling Point:	Upland HM-037
Investigator(s): MJA, DMS	Section, Township, Range: <u>C</u>	hio Surveys VIRGINIA MILITA	RY DISTRICT OH9	3Adams Lot 12512
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, no	one): Flat	Slope	e (%): <u>3</u>
Subregion (LRR or MLRA): LRR N Lat: 39.02619	Long:	-83.3163	33 Datum:	WGS 84
Soil Map Unit Name: Latham silt loam, 8 to 15 percent slopes		NWI classification	n: <u>N/A</u>	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in Rema	ırks.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Norma	al Circumstances" prese	ent? Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed,	explain any answers in	Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes			Is the Sampled Area	
Hydric Soil Present?	Yes			within a Wetland?	Yes No
Wetland Hydrology Present?	Yes	_ No_	<u>X</u>		
Remarks:					
Upland data point situated in old field, Field ID: U-MJA-100919-04	under transmiss	sion line			
HYDROLOGY					
Wetland Hydrology Indicators:					Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is	s required; chec	k all that	apply)		Surface Soil Cracks (B6)
Surface Water (A1)		True Ad	quatic Plants	B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		Hydrog	en Sulfide Oc	or (C1)	Drainage Patterns (B10)
Saturation (A3)		Oxidize	d Rhizospher	es on Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)			ce of Reduce		Dry-Season Water Table (C2)
Sediment Deposits (B2)	님			n in Tilled Soils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	님		uck Surface (Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re	narks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	om (D7)				Geomorphic Position (D2)
Inundation Visible on Aerial Imag Water-Stained Leaves (B9)	ery (B7)				Shallow Aquitard (D3) Microtopographic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutral Test (D5)
Field Observations:					
	No X	Depth	(inches):		
	No X				
	No X				Hydrology Present? Yes NoX
Describe Recorded Data (stream gau	ge, monitoring \	well, aer	ial photos, pre	vious inspections), if ava	illable:
Remarks:					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.00 (A/B)
6				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: <u>0</u>	20% of	total cover	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size: 15')				FACW species $0 \times 2 = 0$
1				FAC species $0 \times 3 = 0$
2				FACU species 105 $x = 420$
3				
4				UPL species $0 \times 5 = 0$
5				Column Totals: <u>105</u> (A) <u>420</u> (B)
6				Prevalence Index = B/A =4.00
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover: <u>0</u>				1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:15')	2070 01			2 - Dominance Test is >50%
1				3 - Prevalence Index is $\leq 3.0^1$
				4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	0	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: <u>0</u>	20% of	total cover	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5')				approximately 20 ft (6 m) or more in height and 3 in.
1. Solidago canadensis		Y	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Schedonorus arundinaceus	30	Y	FACU	Sapling – Woody plants, excluding woody vines,
3. Ageratina altissima	10	N	FACU	approximately 20 ft (6 m) or more in height and less
4				than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6				
7				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8		·		plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11				
		= Total Cov		
50% of total cover: 53	20% of	total cover	21	
Woody Vine Stratum (Plot size:30')				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cov	er	Vegetation
50% of total cover:0	20% of	total cover	0	Present? Yes <u>No X</u>
Remarks: (Include photo numbers here or on a separate :	choot)			1

Profile Desc	ription: (Describe t	o the depth	needed to docum	ent the ir	ndicator o	r confirm	the absence of	of indicators.)	
Depth	Matrix		Redox	Features	5				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	(S
0 — 18	10YR 4/3	100	/				Loam		
_									
—									
_									
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	=Masked	Sand Grai	ins.	² Location: PL	=Pore Lining, M=Matr	ix.
Hydric Soil	ndicators:						Indicat	tors for Problematic	Hydric Soils ³ :
. Histosol	(A1)		Dark Surface	(S7)				cm Muck (A10) (MLR/	A 147)
	pipedon (A2)		Polyvalue Bel		ce (S8) (M I	RA 147.		bast Prairie Redox (A1	
Black Hi	•		Thin Dark Sur				·	(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye			, 140)		edmont Floodplain So	ils (F19)
	l Layers (A5)		Depleted Mat		<i>L</i>)			(MLRA 136, 147)	13 (110)
	ick (A10) (LRR N)		Redox Dark S		6)			ry Shallow Dark Surfa	aco (TE12)
	Below Dark Surface	(A11)	Depleted Dark		•			her (Explain in Remar	
	ark Surface (A12)	(ATT)	Redox Depres				<u> </u>	пег (слрантні кента	K3)
	lucky Mineral (S1) (L	KK N,	Iron-Mangane		3 (F12) (L	KK N,			
	A 147, 148)		MLRA 136			100)	31 m alia	otoro of budrophutio	un antotion and
	ileyed Matrix (S4)		Umbric Surfac					cators of hydrophytic	
	edox (S5)		Piedmont Flo					land hydrology must b	
	Matrix (S6)		Red Parent M	aterial (Fa	21) (MLRA	A 127, 147) unie	ess disturbed or proble	ematic.
Restrictive I	_ayer (if observed):	No							
Туре:			_						
Depth (ind	ches):		_				Hydric Soil F	Present? Yes	<u>No X</u>
Remarks:									
. tomanio									



Soil Profile

East

Project/Site: AEP Hillsboro to Millbrook Park	City/County: <u>Adams</u>		Sampling	Date: 1	0/09/2019
Applicant/Owner: <u>AEP</u>		State: C			Upland HM-038,039,040
Investigator(s): MJA, DMS	Section, Township, Range: Ohio S	Surveys VIF	RGINIA MILITARY DIS	TRICT OH9	3Adams Lot 10336
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none)): None		Slope	e (%): <u>1</u>
Subregion (LRR or MLRA): LRR N Lat: 39.02369	Long:		-83.30974	Datum	WGS 84
Soil Map Unit Name: <u>Tilsit silt loam, 0 to 3 percent slopes</u>		_ NWI c	classification: N/A	4	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If)	no, expla	ain in Remarks.)		
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal Ci	ircumsta	nces" present?	Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, exp	olain any	answers in Rema	arks.)	

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 <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	X	
Remarks:						
Upland data point situated on terrace,	in old field, und	ler transmission line.				
Field ID: U-MJA-100919-01						

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14	4) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres	on Living Roots (C3) 🔲 Moss Trim Lines (B16)
Water Marks (B1)	on (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)	n Tilled Soils (C6) 🛛 🔲 Crayfish Burrows (C8)
Drift Deposits (B3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remar	ks) 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 <u>No X</u> Depth (inches):	_
Water Table Present? Yes No X Depth (inches):	_
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	Wetland Hydrology Present? Yes NoX

Sampling Point: Upland HM-038,039,040

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:	30')	% Cover	Species?	Status	Number of Dominant Species	
1					That Are OBL, FACW, or FAC: (A	A)
2					Total Number of Dominant	
3						B)
4						_,
					Percent of Dominant Species That Are OBL_EACW or EAC: 33.33 (A	
5					That Are OBL, FACW, or FAC: 33.33 (A	A/B)
6					Prevalence Index worksheet:	
		0	= Total Cov	er	Total % Cover of: Multiply by:	
	50% of total cover: 0	20% of	total cover:	0	OBL species 0 x 1 = 0	
Sapling Stratum (Plot size:	15')					
1						
2					FAC species x 3 = 90	
					FACU species 86 x 4 = 344	
3					UPL species 0 x 5 = 0	
4					Column Totals:116 (A)434	(B)
5						
6					Prevalence Index = B/A =3.74	
		0	= Total Cov	er	Hydrophytic Vegetation Indicators:	
	50% of total cover: 0	20% of	total cover	0	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:		2070 01			2 - Dominance Test is >50%	
					3 - Prevalence Index is ≤3.0 ¹	
1					4 - Morphological Adaptations ¹ (Provide suppo	rting
2					data in Remarks or on a separate sheet)	nung
3					Problematic Hydrophytic Vegetation ¹ (Explain)	
4						
5						
6					¹ Indicators of hydric soil and wetland hydrology musbe present, unless disturbed or problematic.	St
			= Total Cov		Definitions of Five Vegetation Strata:	
				0	Deminitions of Five vegetation Strata.	
	50% of total cover: 0	20% 01	total cover.	0	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in height and 3 in	۱.
1. Andropogon virginicus			-		(7.6 cm) or larger in diameter at breast height (DBH	٦).
2. Lespedeza cuneata		25	Y	FACU	Sapling – Woody plants, excluding woody vines,	
3. Poa annua		20	N	FACU	approximately 20 ft (6 m) or more in height and less	S
4. Setaria pumila		30	Y	FAC	than 3 in. (7.6 cm) DBH.	
5. Elaeagnus angustifolia		3		FACU	Shrub – Woody plants, excluding woody vines,	
. I had a share share to div if a no		3	N		approximately 3 to 20 ft (1 to 6 m) in height.	
0. <u> </u>				FACU	approximately 5 to 20 ft (1 to 6 ftf) in height.	
7				FACU		
7			·		Herb – All herbaceous (non-woody) plants, includin	ng
8			·			0
			·		Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody	0
8					Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel ft (1 m) in height.	ly 3
89 10					Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel	ly 3
8 9					Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel ft (1 m) in height.	ly 3
8 9 10			= Total Cov		Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel ft (1 m) in height.	ly 3
8 9 10 11	50% of total cover: <u>58</u>		= Total Cov		Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel ft (1 m) in height.	ly 3
8 9 10 11 <u>Woody Vine Stratum</u> (Plot siz	50% of total cover: <u>58</u> re: <u>30'</u>)		= Total Cov	er	Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel ft (1 m) in height.	ly 3
8 9 10 11 <u>Woody Vine Stratum</u> (Plot siz 1	50% of total cover: <u>58</u> e: <u>30'</u>)	 116 20% of	= Total Cov	er	Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel ft (1 m) in height.	ly 3
8 9 10 11 <u>Woody Vine Stratum</u> (Plot siz	50% of total cover: <u>58</u> e: <u>30'</u>)	 116 20% of	= Total Cov	er	Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel ft (1 m) in height.	ly 3
8 9 10 11 <u>Woody Vine Stratum</u> (Plot siz 1	50% of total cover: <u>58</u> e: <u>30'</u>)	 116 20% of	= Total Cov	er	Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel ft (1 m) in height.	ly 3
8 9 10 11 <u>Woody Vine Stratum</u> (Plot siz 1 2	50% of total cover: <u>58</u> e: <u>30'</u>)	 20% of	= Total Cover:	 er 23	 Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximatel ft (1 m) in height. Woody vine – All woody vines, regardless of heighter the standard structure of the standard structure of the structu	ly 3
8	50% of total cover: <u>58</u> re: <u>30'</u>)	 	= Total Cov	 er 23	 Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of heighter the standard structure of the standard structure of the struct	ly 3
8 9 10 11 <u>Woody Vine Stratum</u> (Plot siz 1 2 3	50% of total cover: <u>58</u> re: <u>30'</u>)	116 20% of	= Total Cov	er	 Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of heigh Hydrophytic 	ly 3
8	50% of total cover: <u>58</u> e: <u>30'</u>)		= Total Cov total cover: = Total Cov	 er 	 Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of heighter the standard structure of the standard structure of the struct	ly 3
8	50% of total cover: <u>58</u> re: <u>30'</u>) 50% of total cover: <u>0</u>	 	= Total Cov total cover: = Total Cov	 er 	 Herb – All herbaceous (non-woody) plants, includin herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately ft (1 m) in height. Woody vine – All woody vines, regardless of heigh Hydrophytic Vegetation 	ly 3

Profile Desci	ription: (Describe t	o the depth	needed to docum	ent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix			Features	4	. 2				
<u>(inches)</u>	Color (moist)	%	Color (moist)		Type'	Loc ²	Texture		Remarks	
0 — 12	2.5Y 6/3	70	10YR 6/8	30	С	Μ	Clay loam	Prominer	nt redox conce	entrations
_										
_										
						·	·			
_										
						·	·			
—										
¹ T			aduard Matrix MC	-Meelved			² I	-Dana Limin		
Hydric Soil I	ncentration, D=Deple	etion, RIVI=R	educed Matrix, MS	=IVIasked	Sand Gra	ains.	² Location: Pl		oblematic Hy	dric Soile ³
				(07)					-	
Histosol (Dark Surface						10) (MLRA 1 Redox (A16)	47)
Black His	ipedon (A2)		Thin Dark Sur		. , .		146) <u> </u>	(MLRA 14)	. ,	
	n Sulfide (A4)		Loamy Gleye			47, 140)	Пр		odplain Soils	(F10)
	Layers (A5)		Depleted Mat		(2)			(MLRA 13)		(110)
	ck (A10) (LRR N)		Redox Dark S		6)				Dark Surface	(TF12)
	Below Dark Surface	(A11)	Depleted Darl		,				n in Remarks)	
	rk Surface (A12)	()	Redox Depres							
🔲 Sandy M	ucky Mineral (S1) (L l	RR N,	Iron-Mangane	ese Masse	es (F12) (I	LRR N,				
	147, 148)		MLRA 136	5)						
Sandy G	leyed Matrix (S4)		Umbric Surfac	ce (F13) (MLRA 13	6, 122)	³ Indi	icators of hy	drophytic veg	etation and
	edox (S5)		Piedmont Floo	odplain So	oils (F19)	(MLRA 14	18) we	tland hydrol	ogy must be p	present,
	Matrix (S6)		Red Parent M	laterial (F	21) (MLR	A 127, 147	7) unl	ess disturbe	ed or problem	atic.
	ayer (if observed):	Yes								
Type: Co	mpacted clay									
Depth (inc	hes): <u>12</u>						Hydric Soil	Present?	Yes	No <u>X</u>
Remarks:										



Soil profile

East

Project/Site: AEP Hillsboro to Millbrook Park	City/County: <u>Adams</u>	Sampli	ng Date: 1	0/09/2019
Applicant/Owner: AEP	State	e: OH Sam	pling Point:	Upland HM-041
Investigator(s): MJA, DMS	Section, Township, Range: Ohio Surveys	S VIRGINIA MILITARY DIST	RICT OH93Ada	ns Lot not numbered
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none): No	one	Slope	e (%): <u>10</u>
Subregion (LRR or MLRA): LRR N Lat: 39.01970	Long:	-83.29738	Datum:	WGS 84
Soil Map Unit Name: Shelocta-Muse-Colyer association, steep	N	WI classification: <u>N</u>	N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, e	explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal Circur	nstances" present?	Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, explain	any answers in Re	marks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No_ Yes No_ Yes No_	X within a \	mpled Area Wetland? Yes	No
Remarks: Upland data point situated on south-fac	ving slope, in old field,	under transmission line.		
Field ID: U-MJA-100919-03				
Wetland Hydrology Indicators: Primary Indicators (minimum of one is	· _		Surface Soil Crae	
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Aquatic Fauna (B13) 	Hydrog Oxidiz Preser Recen Thin M Other	Aquatic Plants (B14) gen Sulfide Odor (C1) ed Rhizospheres on Living nce of Reduced Iron (C4) at Iron Reduction in Tilled S Auck Surface (C7) (Explain in Remarks)	G Roots (C3) Drainage Pattern Drass Trim Lines Dry-Season Wat Soils (C6) Crayfish Burrows	(B16) eer Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) sition (D2) d (D3) c Relief (D4)
Field Observations:				- ()
	No <u>X</u> Depth No <u>X</u> Depth			
	No X Deptr		Wetland Hydrology Present?	Yes NoX
Describe Recorded Data (stream gaug	je, monitoring well, ae	rial photos, previous inspe	ctions), if available:	
Remarks:				

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC:1 (A)
2					Total Number of Dominant
3					Species Across All Strata: <u>2</u> (B)
4					Demonst of Dominant Crossics
5					Percent of Dominant Species That Are OBL, FACW, or FAC:50.00 (A/B)
6					
		0	= Total Cov	er	Prevalence Index worksheet:
	50% of total cover: 0	20% of	total cover:	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:			lotal ooron.		OBL species x 1 =
1	/				FACW species $0 \times 2 = 0$
2					FAC species x 3 =153
					FACU species X 4 = 120
3					UPL species x 5 = 0
4					Column Totals: <u>81</u> (A) <u>273</u> (B)
5					3.37
6					Prevalence Index = B/A = <u>3.37</u>
			= Total Cov		Hydrophytic Vegetation Indicators:
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:					2 - Dominance Test is >50%
1. Rubus allegheniensis		30	Y	FACU	$_$ 3 - Prevalence Index is ≤3.0 ¹
2					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3					
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
6					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: <u>15</u>	20% of	total cover	6	
Herb Stratum (Plot size:		2070 01			Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
		40	Y	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Verbesina alternifolia		5	 N	FAC	
		4		FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4. Euthamia graminifolia				FAC	than 3 in. (7.6 cm) DBH.
		5	<u> N </u>		
5					Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6					
7			·		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8			·		plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					
		51	= Total Cov	er	
	50% of total cover: 26	20% of	total cover:	10	
Woody Vine Stratum (Plot siz	e:)				
1					
2					
3					
4					
5					
			= Total Cov	er	Hydrophytic Vegetation
	EO% of total cover 0				Present? Yes <u>No X</u>
Demontres (herebook)	50% of total cover: 0		ioial cover:	0	
Remarks: (Include photo num	ibers here or on a separate s	sneet.)			

Profile Description: (Describe to the dep	th needed to document the	indicator or confirm th	he absence of indicate	ors.)
Depth <u>Matrix</u>	Redox Feature	S 2	—	
(inches) Color (moist) %	<u>Color (moist)</u> %	<u>Type¹ Loc²</u>	Texture	Remarks
<u>0 — 10</u> <u>10YR 4/3</u> <u>100</u>	/	·	_oam	
<u> </u>				
_				
_				
¹ Type: C=Concentration, D=Depletion, RM=	Doduced Metrix MS Mackey	\sim	Location: PL=Pore Lin	ing M. Motrix
Hydric Soil Indicators:		a Sahu Grains.		roblematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)			A10) (MLRA 147)
Histic Epipedon (A2)		nce (S8) (MLRA 147, 1 4		e Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9		(MLRA 14	. ,
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)		oodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)		(MLRA 13	
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F			v Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface		U Other (Expla	in in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Mass			
MLRA 147, 148)	MLRA 136)			
Sandy Gleyed Matrix (S4)	Umbric Surface (F13)	(MLRA 136, 122)	³ Indicators of h	ydrophytic vegetation and
Sandy Redox (S5)		Soils (F19) (MLRA 148)		ology must be present,
Stripped Matrix (S6)	Red Parent Material (F	21) (MLRA 127, 147)	unless disturb	ed or problematic.
Restrictive Layer (if observed): Yes				
Type: <u>Gravel</u>				
Depth (inches): <u>10</u>			Hydric Soil Present?	Yes <u>No X</u>
Remarks:				



North

Soil Profile

Project/Site: _AEP Hillsboro to Millbrook Park	City/County: Adams		Sampling Date: _	0/10/2019
Applicant/Owner: AEP		State: OH	_ Sampling Point	Upland HM-042
Investigator(s): MJA, DMS	Section, Township, Range: Ohio	Surveys VIRGINIA M	ILITARY DISTRICT O	H93Pike Lot 16035
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none): Convex	Slop	e (%): <u>8</u>
Subregion (LRR or MLRA): LRR N Lat: 39.01661	Long:	-83.28	8457 Datum	: WGS 84
Soil Map Unit Name: Shelocta-Berks association, very steep		NWI classifica	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If	no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal C	circumstances" pr	esent? Yes X	No
Are Vegetation _, Soil _, or Hydrology natural	y problematic? (If needed, ex	plain any answers	s in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?		No <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes No
Remarks: Upland data point situated on north	nwest-facing slope, ir	n mowed field, under	transmission line.	
Field ID: U-MJA-101019-01				
HYDROLOGY				
Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ir Water-Stained Leaves (B9) Aquatic Fauna (B13)		True Aquatic Plants Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced	B14) [or (C1) [es on Living Roots (C3) [d Iron (C4) [n in Tilled Soils (C6) [C7) [Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Ye	esNo_X	Dopth (inchos):		
	es No _X			
	esNo_X	Depth (inches):	Wetland Hy	ydrology Present? Yes <u>No X</u> able:
Remarks:				

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3					Species Across All Strata: 2 (B)
4					
5					Percent of Dominant Species That Are OBL, FACW, or FAC:50.00 (A/B)
6					
			= Total Cov		Prevalence Index worksheet:
	(Total % Cover of: Multiply by:
	of total cover: 0	20% of	total cover:	0	OBL species x 1 = 0
Sapling Stratum (Plot size: 1	/				FACW species x 2 = 0
1					FAC species 70 x 3 = 210
2					FACU species x 4 = 180
3					UPL species 15 x 5 =75
4					Column Totals: <u>130</u> (A) <u>465</u> (B)
5					
6					Prevalence Index = B/A =3.58
			= Total Cov		Hydrophytic Vegetation Indicators:
	of total cover: 0				1 - Rapid Test for Hydrophytic Vegetation
		20% 0	total cover:		2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15					$ \underline{\qquad} 3 - \text{Prevalence Index is } \leq 3.0^{1} $
1					
2					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
4					
5					¹ Indiantors of budying spillond unstand budgetony must
6					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		0	= Total Cov	er	Definitions of Five Vegetation Strata:
50%	of total cover: 0	20% of	total cover-	0	
)	2070 01			Tree – Woody plants, excluding woody vines,
4 Antheneuron biomidure		50	V	FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
2. Schedonorus arundinaceus		<u>50</u> 25	<u>Y</u> Y	FACU	
- Andronogon virginiouo				FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
			<u>N</u>		than 3 in. (7.6 cm) DBH.
4. Plantago lanceolata		15		UPL	
5Setaria pumila		15	<u>N</u>	FAC	Shrub – Woody plants, excluding woody vines,
6. Conoclinium coelestinum		5	N	FAC	approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					
11					Woody vine – All woody vines, regardless of height.
			= Total Cov	er	
	6 I				
	of total cover: 65	20% of	total cover:	26	
Woody Vine Stratum (Plot size:	30')				
1					
2					
3					
4					
5					I hidronia dia
			= Total Cov	er	Hydrophytic Vegetation
	of total cover: 0				Present? Yes <u>No X</u>
			ioial cover:		
Remarks: (Include photo numbers he	re or on a separate s	sneet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the i	ndicator o	or confirm	n the absence of indicat	ors.)	
Depth	Matrix			x Features	S 1		— .		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 16	10YR 4/3		/				Loam		
_									
_									
_									
							² Leastion: DL Dara Liv	ing M Matrix	
Hydric Soil I	ncentration, D=Depl	etion, RIVI=Re	educed Matrix, Mis	s=Ivlasked	Sand Gra	ains.	² Location: PL=Pore Lin	Problematic Hyd	tric Soils ³ :
Histosol			Dark Surface	(57)				(A10) (MLRA 14	
	ipedon (A2)		Polyvalue Be		re (S8) (M	II RA 147		e Redox (A16)	')
Black His	•		Thin Dark Su				(MLRA 1		
	n Sulfide (A4)		🔲 Loamy Gleye					loodplain Soils (I	F19)
	Layers (A5)		Depleted Ma				(MLRA 1		
	ck (A10) (LRR N)		Redox Dark S					w Dark Surface	(TF12)
	Below Dark Surface	(A11)	Depleted Dar				U Other (Expl	ain in Remarks)	
	rk Surface (A12) ucky Mineral (S1) (L		Redox Depre Iron-Mangan						
-	147, 148)		MLRA 13		53 (1 12) (1				
	leyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	³ Indicators of	nydrophytic vege	station and
	edox (S5)		Piedmont Flo					ology must be pr	
Stripped	Matrix (S6)		Red Parent N	Aaterial (F	21) (MLR	A 127, 147	7) unless distur	bed or problema	tic.
	ayer (if observed):	Yes							
Type: Cla			_						
Depth (inc	:hes): <u>16</u>		_				Hydric Soil Present?	Yes	No <u>X</u>
Remarks:									



South

Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Adams	Sampling	g Date: 10	/10/2019
Applicant/Owner: AEP		OH Sampl	ing Point:	Upland HM-043
Investigator(s): MJA, DMS	Section, Township, Range: Ohio Surveys	VIRGINIA MILITARY DI	STRICT OH	93Pike Lot 16035
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none): None	e	Slope	(%): 1
Subregion (LRR or MLRA): LRR N Lat: 39.01463	Long:	-83.27775	Datum:	WGS 84
Soil Map Unit Name: Shelocta-Berks association, steep	NWI	I classification: up	land	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, exp	plain in Remarks.)		
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal Circumst	tances" present?	Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, explain an	y answers in Rema	arks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No		Is the Sampled Area		X
Hydric Soil Present?	Yes			within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes	_ No_	X			
Remarks:						
Upland data point situated in old field Field ID: U-MJA-101019-02	, under transmiss	ion line.				
HYDROLOGY						
Wetland Hydrology Indicators:					Secondary Indicators	s (minimum of two required)
Primary Indicators (minimum of one	is required; check	call that	apply)		🔲 Surface Soil Cra	ıcks (B6)
Surface Water (A1)		True Ac	quatic Plants	(B14)	D Sparsely Vegeta	ated Concave Surface (B8)
High Water Table (A2)		Hydrog	en Sulfide Od	or (C1)	Drainage Patter	ns (B10)
Saturation (A3)		Oxidize	d Rhizospher	es on Living Roots (C3)	Moss Trim Lines	; (B16)
Water Marks (B1)	Ц		ce of Reduce		Dry-Season Wat	
Sediment Deposits (B2)	님			on in Tilled Soils (C6)	Crayfish Burrow	
Drift Deposits (B3)	_		uck Surface (le on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rei	marks)	Stunted or Stres	
Iron Deposits (B5)	aon (D7)				Geomorphic Pos	
Inundation Visible on Aerial Ima	уегу (Б7)				Shallow Aquitare	
Aquatic Fauna (B13)					FAC-Neutral Tes	
Field Observations:						
Surface Water Present? Yes	No X	Depth	(inches):			
	NoX					
	No <u>X</u>				Hydrology Present?	Yes NoX
Describe Recorded Data (stream ga	uge, monitoring w	/ell, aeri	ial photos, pre	evious inspections), if av	ailable:	
Remarks:						

		Absolute	Dominant	Indicator	Dominance Test w	orksheet:			
Tree Stratum (Plot size: 30')		% Cover	Species?	Status	Number of Dominar	nt Species			
1					That Are OBL, FAC	W, or FAC	:	1	(A)
2					Total Number of Do	minant			
3					Species Across All S			2	(B)
4					Dereent of Dominan	+ Spanias			
5					Percent of Dominan That Are OBL, FAC		:	50.00	(A/B)
6					Prevalence Index v	vorksheet	:		
			= Total Cov		Total % Cover of	of:	Mul	ltiply by:	
50% of total	cover: 0	20% of	total cover:	0	OBL species				
Sapling Stratum (Plot size: 15')				FACW species				
1			·		FAC species				
2					FACU species		x 4 -	340	
3					UPL species				
4					Column Totals:				(D)
5						100	(A) _	500	_ (B)
6					Prevalence Inc	dex = B/A	=	3.61	
		0	= Total Cov	er	Hydrophytic Veget				
50% of total	cover: 0	20% of	total cover:	0	1 - Rapid Test f	or Hydroph	nytic Ve	getation	
Shrub Stratum (Plot size:15'					2 - Dominance	Test is >50)%		
1					3 - Prevalence	Index is ≤3	8.0 ¹		
2					4 - Morphologic	al Adaptat	ions ¹ (P	rovide sup	porting
3					data in Rem	arks or on	a separ	ate sheet)	
4					Problematic Hy	drophytic \	/egetati	on ¹ (Explai	in)
5					¹ Indicators of hydric	soil and w	etland h	nydrology n	nust
6					he precent unless c	histurhad a	r nrohle	matic	
					be present, unless c		•		
		0	= Total Cov		Definitions of Five		•		
50% of total	cover: 0	0	= Total Cov			Vegetatio	n Strata	a:	
Herb Stratum (Plot size: 5')	cover: 0	0 20% of	= Total Cov	0	Definitions of Five Tree – Woody plant approximately 20 ft	Vegetatio s, excludin (6 m) or m	n Strata	a: y vines, eight and 3	s in.
Herb Stratum (Plot size: 5') 1. Andropogon gerardii		0 20% of	= Total Cover: total cover:	0 FAC	Definitions of Five Tree – Woody plant	Vegetatio s, excludin (6 m) or m	n Strata	a: y vines, eight and 3	3 in. BH).
Herb Stratum (Plot size:) 1. Andropogon gerardii 2. Schedonorus arundinaceus		20% of	= Total Cover:	0 FAC FACU	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl	Vegetatio s, excludin (6 m) or m diameter a lants, exclu	n Strata og wood ore in h at breas	a: y vines, eight and 3 t height (DI pody vines,	BH). ,
Herb Stratum (Plot size: 5') 1. Andropogon gerardii		0 20% of	= Total Cover: total cover:	0 FAC	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m	n Strata og wood ore in h at breas	a: y vines, eight and 3 t height (DI pody vines,	BH). ,
Herb Stratum (Plot size:) 1. Andropogon gerardii 2. Schedonorus arundinaceus		0 20% of 65 40	= Total Cover: total cover:	0 FAC FACU	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m	n Strata og wood ore in h at breas	a: y vines, eight and 3 t height (DI pody vines,	BH). ,
Herb Stratum (Plot size:5') 1. Andropogon gerardii 2. Schedonorus arundinaceus 3. Lespedeza cuneata		0 20% of 65 40 20	= Total Cover: total cover: Y Y N	0 FAC FACU FACU	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) D Shrub – Woody pla	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud	n Strata ore in hi at breas uding wo ore in hi	a: eight and 3 t height (DI pody vines, eight and le pdy vines,	BH). ,
Herb Stratum (Plot size:5') 1. Andropogon gerardii 2. Schedonorus arundinaceus 3. Lespedeza cuneata 4. Ageratina altissima		0 20% of 65 40 20 15 10	= Total Cover: total cover: Y N N	FAC FACU FACU FACU	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) D	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud	n Strata ore in hi at breas uding wo ore in hi	a: eight and 3 t height (DI pody vines, eight and le pdy vines,	BH). ,
Herb Stratum (Plot size:5') 1. Andropogon gerardii 2. Schedonorus arundinaceus 3. Lespedeza cuneata 4. Ageratina altissima 5. Cirsium arvense a. Daugua agerata		0 20% of 65 40 20 15 10 5	= Total Cover: total cover: Y N N N N N	FAC FACU FACU FACU FACU FACU	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) D Shrub – Woody pla approximately 3 to 2 Herb – All herbaced	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m OBH. DBH. nts, exclud 20 ft (1 to 6 pous (non-w	n Strata ore in hi at breas uding wo ore in hi ling wood i m) in hi oody) pl	a: eight and 3 t height (DI body vines, eight and le bdy vines, eight. lants, inclue	BH). , ess ding
Herb Stratum (Plot size:5') 1. Andropogon gerardii 2. Schedonorus arundinaceus 3. Lespedeza cuneata 4. Ageratina altissima 5. Cirsium arvense 6. Daucus carota		0 20% of 40 20 15 10 5	= Total Cover: total cover: Y N N N N N	FAC FACU FACU FACU FACU FACU	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) D Shrub – Woody pla approximately 3 to 2 Herb – All herbaceoc herbaceous vines, r	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud 20 ft (1 to 6 pus (non-w egardless	n Strata ore in h at breas uding wo ore in h ling wo is m) in h oody) pl of size,	a: eight and 3 t height (DI body vines, eight and le bdy vines, reight. lants, inclue and woody	BH). , ess ding /
Herb Stratum (Plot size:5') 1. Andropogon gerardii 2. Schedonorus arundinaceus 3. Lespedeza cuneata 4. Ageratina altissima 5. Cirsium arvense 6. Daucus carota 7		0 20% of 40 20 15 10 5	= Total Cover: total cover: Y N N N N	0 FACU FACU FACU FACU FACU UPL	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) D Shrub – Woody pla approximately 3 to 2 Herb – All herbaceoc herbaceous vines, r plants, except wood	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud 20 ft (1 to 6 pus (non-w egardless	n Strata ore in h at breas uding wo ore in h ling wo is m) in h oody) pl of size,	a: eight and 3 t height (DI body vines, eight and le bdy vines, reight. lants, inclue and woody	BH). , ess ding /
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Herb Stratum (Plot size:5') 1. Andropogon gerardii 2. Schedonorus arundinaceus 3. Lespedeza cuneata 4. Ageratina altissima 5. Cirsium arvense 6. Daucus carota 7		0 20% of 40 20 15 10 5	Total Cover: total cover: Y N N N N	0 FACU FACU FACU FACU FACU UPL	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) D Shrub – Woody pla approximately 3 to 2 Herb – All herbaceoc herbaceous vines, r plants, except wood	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud 20 ft (1 to 6 ous (non-w egardless ly vines, les	n Strata ore in hi at breas uding wo ore in hi ling wo ore in hi ling wo ore in hi oody) pl of size, ss than	a: eight and 3 t height (Dl body vines, eight and le bdy vines, ieight. lants, inclue and woody approximat	BH). , ess ding , tely 3
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Herb Stratum (Plot size:5') 1. Andropogon gerardii 2. Schedonorus arundinaceus 3. Lespedeza cuneata 4. Ageratina altissima 5. Cirsium arvense 6. Daucus carota 7		0 20% of 65 40 20 15 10 5 	 Total Cover: Y Y N N N N = Total Cover 	0 FACU FACU FACU FACU UPL UPL 	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) E Shrub – Woody pla approximately 3 to 2 Herb – All herbaced herbaceous vines, r plants, except wood ft (1 m) in height.	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud 20 ft (1 to 6 ous (non-w egardless ly vines, les	n Strata ore in hi at breas uding wo ore in hi ling wo ore in hi ling wo ore in hi oody) pl of size, ss than	a: eight and 3 t height (Dl body vines, eight and le bdy vines, ieight. lants, inclue and woody approximat	BH). , ess ding , tely 3
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Herb Stratum (Plot size:5') 1. Andropogon gerardii		0 20% of 40 20 15 10 5 	 Total Cover: total cover: Y N N N N = Total Cover: 	0 FACU FACU FACU FACU UPL UPL	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) E Shrub – Woody pla approximately 3 to 2 Herb – All herbaced herbaceous vines, r plants, except wood ft (1 m) in height.	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud 20 ft (1 to 6 ous (non-w egardless ly vines, les	n Strata ore in hi at breas uding wo ore in hi ling wo ore in hi ling wo ore in hi oody) pl of size, ss than	a: eight and 3 t height (Dl body vines, eight and le bdy vines, ieight. lants, inclue and woody approximat	BH). , ess ding , tely 3
Herb Stratum (Plot size:5') 1. Andropogon gerardii 2. 2. Schedonorus arundinaceus 3. 3. Lespedeza cuneata 4. 4. Ageratina altissima 5. 5. Cirsium arvense 6. 6. Daucus carota 7. 7. 8. 9. 10. 10. 50% of total o	 cover:78)	0 20% of 65 40 20 15 10 5 	 Total Cover: Y Y N N N N Total Cover: Total Cover: 	0 FACU FACU FACU FACU UPL UPL 0 0 0 0 0 0 0 0 0 0 0 0 0	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) E Shrub – Woody pla approximately 3 to 2 Herb – All herbaced herbaceous vines, r plants, except wood ft (1 m) in height.	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud 20 ft (1 to 6 ous (non-w egardless ly vines, les	n Strata ore in hi at breas uding wo ore in hi ling wo ore in hi ling wo ore in hi oody) pl of size, ss than	a: eight and 3 t height (Dl body vines, eight and le bdy vines, ieight. lants, inclue and woody approximat	BH). , ess ding , tely 3
Herb Stratum (Plot size:5') 1. Andropogon gerardii		0 20% of 40 20 15 10 5 	 Total Cover: Y Y N N N N = Total Cover: total cover: 	0 FACU FACU FACU FACU UPL UPL 0 0 0 0 0 0 0 0 0 0 0 0 0	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) E Shrub – Woody pla approximately 3 to 2 Herb – All herbaced herbaceous vines, r plants, except wood ft (1 m) in height.	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud 20 ft (1 to 6 ous (non-w egardless ly vines, les	n Strata ore in hi at breas uding wo ore in hi ling wo ore in hi ling wo ore in hi oody) pl of size, ss than	a: eight and 3 t height (Dl body vines, eight and le bdy vines, ieight. lants, inclue and woody approximat	BH). , ess ding , tely 3
Herb Stratum (Plot size:5') 1. Andropogon gerardii	 cover:78	0 20% of 40 20 15 10 5 	 Total Cover: Y Y N N N N = Total Cover: total cover: 	0 FACU FACU FACU FACU UPL UPL 	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pl approximately 20 ft than 3 in. (7.6 cm) E Shrub – Woody pla approximately 3 to 2 Herb – All herbaced herbaceous vines, r plants, except wood ft (1 m) in height.	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud 20 ft (1 to 6 ous (non-w egardless ly vines, les	n Strata ore in hi at breas uding wo ore in hi ling wo ore in hi ling wo ore in hi oody) pl of size, ss than	a: eight and 3 t height (Dl body vines, eight and le bdy vines, ieight. lants, inclue and woody approximat	BH). , ess ding , tely 3
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Herb Stratum (Plot size:5') 1. Andropogon gerardii	cover: <u>78</u>	0 20% of 40 20 15 10 5 	 Total Cover: Y Y N N N N Total Cover: Total Cover: 	0 FACU FACU FACU FACU UPL UPL 0 0 0 0 0 0 0 0 0 0 0 0 0	Definitions of Five Tree – Woody plant approximately 20 ft (7.6 cm) or larger in Sapling – Woody pla approximately 20 ft than 3 in. (7.6 cm) D Shrub – Woody pla approximately 3 to 2 Herb – All herbaced herbaceous vines, re plants, except wood ft (1 m) in height. Woody vine – All w	Vegetatio s, excludin (6 m) or m diameter a lants, exclu (6 m) or m DBH. nts, exclud 20 ft (1 to 6 ous (non-w egardless ly vines, les	n Strata ore in hi at breas uding wo ore in hi ling wo ore in hi ling wo ore in hi oody) pl of size, ss than	a: eight and 3 t height (Dl body vines, eight and le bdy vines, ieight. lants, inclue and woody approximat	BH). , ess ding , tely 3
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Profile Desc	ription: (Describe t	o the depth ne	eded to docur	nent the i	ndicator o	or confirm	n the absei	nce of indicato	ors.)	
Depth	Matrix			x Features						
(inches)	Color (moist)		color (moist)	%	<u>Type¹</u>	Loc ²	Texture	<u> </u>	Remarks	
0 — 4	10YR 4/2	100					Loam			
_										
_										
_										
	oncentration, D=Depl	etion, RM=Red	uced Matrix, MS	S=Masked	Sand Gra	ins.	² Location	: PL=Pore Lini	ng, M=Matrix.	
Hydric Soil I	ndicators:						In	dicators for Pr	oblematic H	ydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (/	410) (MLRA 1	47)
🔲 Histic Ep	ipedon (A2)] Polyvalue Be	low Surfac	ce (S8) (M	LRA 147,	, 148) 🗌	Coast Prairie	Redox (A16)	
🔲 Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	47, 148)		(MLRA 14	7, 148)	
🔲 Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (I	F2)			Piedmont Flo	odplain Soils	(F19)
🔲 Stratified	l Layers (A5)	<u>_</u>	Depleted Ma	trix (F3)				(MLRA 13	6, 147)	
🔲 2 cm Mu	ck (A10) (LRR N)	Ľ	Redox Dark S	Surface (F	6)			Very Shallow	/ Dark Surface	e (TF12)
	l Below Dark Surface	(A11) [Depleted Dar					Other (Expla	in in Remarks)
🛛 🛄 Thick Da	rk Surface (A12)	Ľ	Redox Depre							
🛛 🔲 Sandy M	lucky Mineral (S1) (L	RR N, <u>[</u>	Iron-Mangan	ese Masse	es (F12) (L	_RR N,				
	147, 148)	_	MLRA 13					_		
	leyed Matrix (S4)		Umbric Surfa					³ Indicators of h		
	edox (S5)	<u> </u>	Piedmont Flo					wetland hydro		
	Matrix (S6)		Red Parent N	/laterial (F	21) (MLR/	A 127, 147	7)	unless disturb	ed or problem	atic.
	ayer (if observed):	Yes								
Type: <u>G</u> r	avel									
Depth (ind	ches): <u>4</u>						Hydric S	Soil Present?	Yes	No X
Remarks:							-			



North

Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: <u>Adams</u>		Sampling Date	10/11/2019
Applicant/Owner: <u>AEP</u>		State: OH		int: Upland HM-044,045
Investigator(s): MJA, DMS	Section, Township, Range: O	hio Surveys VIRGINIA M	LITARY DISTRICT	OH93Pike Lot 16035
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, no	ne): <u>Convex</u>	Sl	ope (%): <u>10</u>
Subregion (LRR or MLRA): LRR N Lat: 39.01332	Long:	-83.27	7176 Datu	ım: WGS 84
Soil Map Unit Name: Shelocta-Brownsville association, very steep		NWI classifica	tion: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in Re	marks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Norma	I Circumstances" pr	esent? Yes	X No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed,	explain any answers	s in Remarks.)	

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 <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland data point taken on west-facing	slope, in old fie	ld, under transmissio	on line.		

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) 🔲 Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	oils (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 <u>No X</u> Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Water Table Present? Yes No _^_ Depth (inches): Saturation Present? Yes No _X_ Depth (inches):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	· · · · · · · · · · · · · · · · · · ·
Saturation Present? Yes <u>No X</u> Depth (inches):	· · · · · · · · · · · · · · · · · · ·
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	· · · · · · · · · · · · · · · · · · ·
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	· · · · · · · · · · · · · · · · · · ·
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Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	· · · · · · · · · · · · · · · · · · ·
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		Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 1			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2 3					Total Number of Dominant Species Across All Strata:2 (B)
4 5					Percent of Dominant Species That Are OBL, FACW, or FAC:0.00 (A/B)
6					Prevalence Index worksheet:
		0	= Total Cov	er	Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	$\begin{array}{c} \hline \hline$
Sapling Stratum (Plot size:	15')				FACW species $0 \times 2 = 0$
1					FAC species $30 \times 3 = 90$
2					FAC species X 3 FACU species 105 x 4 =
3		<u> </u>			UPL species 0 x 5 = 0
4					
5					Column Totals: <u>135</u> (A) <u>510</u> (B)
6					Prevalence Index = B/A =3.78
		0	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%
1. Rubus allegheniensis		10	Y	FACU	3 - Prevalence Index is $≤3.0^1$
2					4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
6					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		10	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: 5	20% of	total cover:	2	
Herb Stratum (Plot size:					Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Schedonorus arundinaceus		65	Y	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2 Dichanthelium clandestinum		20	N	FAC	Sapling – Woody plants, excluding woody vines,
3 Solanum carolinense		15	N	FACU	approximately 20 ft (6 m) or more in height and less
4. Ageratina altissima		15		FACU	than 3 in. (7.6 cm) DBH.
5. Smilax rotundifolia		10	N	FAC	Shrub – Woody plants, excluding woody vines,
6		· ·			approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					
11					Woody vine – All woody vines, regardless of height.
			= Total Cov	er	
	50% of total cover: 63	20% of	total cover	25	
Woody Vine Stratum (Plot size:		2070 01			
1					
2					
3					
4					
4 5.					
J			= Total Cov	or	Hydrophytic
					Vegetation Present? Yes <u>No X</u>
	50% of total cover: 0		total cover:	U	
Remarks: (Include photo numb	ers here or on a separate s	sheet.)			

SOIL

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absenc	e of indicato	rs.)	
Depth	Matrix			x Features			_			
<u>(inches)</u> 0 — 4	Color (moist) 10YR 4/4	<u> </u>	Color (moist)	%	Type ¹	Loc ²	Texture	<u> </u>	Remarks	
							Loam	<u> </u>		
4 — 12	10YR 5/4	60	10YR 4/4	40		<u> </u>	Loam			
_										
_										
						<u> </u>				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Deduced Metrix MC				21			
Hydric Soil I	ncentration, D=Deple	etion, Rivi=	Reduced Matrix, ME	s=IVIasked	Sand Gra	ains.	Location: I	PL=Pore Linii	oblematic H	ydric Soils ³ :
			Dark Surface	(S7)				2 cm Muck (A		-
	vipedon (A2)		Polyvalue Be		e (S8) (M	LRA 147,		Coast Prairie		
Black His	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1		·	(MLRA 14	7, 148)	
	n Sulfide (A4)		Loamy Gleye	•	=2)			Piedmont Flo		(F19)
	l Layers (A5) ck (A10) (LRR N)		Depleted Mat		8)			(MLRA 13) Very Shallow		a (TE12)
	Below Dark Surface	e (A11)	Depleted Dark		,			Other (Explai		
	rk Surface (A12)	、	Redox Depre				—			,
	lucky Mineral (S1) (L	RR N,	🔲 Iron-Mangane		es (F12) (I	_RR N,				
	147, 148) leyed Matrix (S4)		MLRA 130			C 400)	31	dia atawa af hu		
			Umbric Surfa	ce (F13) (MLRA 13	6, 122)	in	dicators of hy		-
				odplain Se	oils (F19)	(MI RA 14	. 8) w	etland hydrol	oav must be	present
Sandy R	edox (S5) Matrix (S6)		Piedmont Flo					etland hydrol nless disturbe		
Sandy R	edox (S5)	Yes	Piedmont Flo							
Sandy R	edox (S5) Matrix (S6) .ayer (if observed):	Yes	Piedmont Flo							
Sandy R Stripped Restrictive L Type: Gra	edox (S5) Matrix (S6) .ayer (if observed):	Yes	Piedmont Flo				') u			natic.
Sandy R Stripped Restrictive L Type: Gra	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.
Sandy R Stripped Restrictive L Type: Gra Depth (inc	edox (S5) Matrix (S6) .ayer (if observed): avel	Yes	Piedmont Flo				') u	nless disturbe	ed or problem	natic.



Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: <u>Scioto</u>		Sampling Date:	10/14/2019
Applicant/Owner: AEP		State: OH	_ Sampling Poir	nt: Upland HM-046
Investigator(s): BCR	Section, Township, Range: _ ^{Ot}	nio Surveys VIRGINIA MILIT.	ARY DISTRICT OH93S	cioto Lot not numbered
Landform (hillslope, terrace, etc.): Undulating	Local relief (concave, convex, no	ne): Hummocky	Slo	oe (%): <u>2</u>
Subregion (LRR or MLRA): LRR N Lat: 39.00587	Long:	-83.2	3939 Datur	n: WGS 84
Soil Map Unit Name: Coolville silt loam, 1 to 8 percent slopes		NWI classifica	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Norma	I Circumstances" pr	resent? Yes	XNo
Are Vegetation _, Soil, or Hydrology naturall	y problematic? (If needed,	explain any answer	s in Remarks.)	

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	Х	Is the Sampled A within a Wetland		Yes	No	×
Remarks: Associated with W-BCR-101419-01	(Wetland HM-041)), locate	ed in a cow pa	sture.				
Field ID: U-BCR-101419-01								
HYDROLOGY Wetland Hydrology Indicators:					S	¬		m of two required)
Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Im Water-Stained Leaves (B9) Aquatic Fauna (B13)		True A Hydrog Oxidize Presen Recent Thin M	quatic Plants (jen Sulfide Od ed Rhizospher ice of Reduced	lor (C1) res on Living Roots d Iron (C4) on in Tilled Soils (C C7)	ļ	Drainage Pat Moss Trim Li Dry-Season Crayfish Burr	getated Conc tterns (B10) nes (B16) Water Table rows (C8) sible on Aeria tressed Plant Position (D2) itard (D3) aphic Relief (I	al Imagery (C9) ts (D1))
Field Observations: Surface Water Present? Yes	6 No_X	Denth	(inches) [,]					
Water Table Present? Yes	s NoX s NoX s NoX	Depth	(inches):		land Hy	drology Presen	it? Yes	NoX
(includes capillary fringe) Describe Recorded Data (stream g	auge, monitoring w	/ell, aer	ial photos, pre	evious inspections),	, if availa	ble:		
Remarks:								

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:	30')		Species?		Number of Dominant Species	
1					That Are OBL, FACW, or FAC: (A)	.)
2						
3					Total Number of Dominant Species Across All Strata: 2 (B)	1
					Species Acioss Ali Strata (D,	9
4					Percent of Dominant Species	
5					That Are OBL, FACW, or FAC: 0.00 (A	/B)
6					Prevalence Index worksheet:	
		0	= Total Cov	er	Total % Cover of: Multiply by:	
	50% of total cover: 0	20% of	total cover:	0		
Sapling Stratum (Plot size:	4 = 1				OBL species <u>0</u> x 1 = <u>0</u>	
1	/				FACW species $0 x 2 = 0$	
					FAC species x 3 = 0	
2					FACU species x 4 = 460	
3					UPL species 0 x 5 = 0	
4					Column Totals:115 (A)460 (I	B)
5						,
6					Prevalence Index = B/A =4.00	
			= Total Cov		Hydrophytic Vegetation Indicators:	
	50% of total cover: 0				1 - Rapid Test for Hydrophytic Vegetation	
		20% 0	total cover:		2 - Dominance Test is >50%	
Shrub Stratum (Plot size:					3 - Prevalence Index is $\leq 3.0^{1}$	
1						
2					4 - Morphological Adaptations ¹ (Provide support data in Remarks or on a separate sheet)	ting
3					•	
4					Problematic Hydrophytic Vegetation ¹ (Explain)	
5						
6					¹ Indicators of hydric soil and wetland hydrology must	t
0			= Total Cov		be present, unless disturbed or problematic.	
					Definitions of Five Vegetation Strata:	
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in height and 3 in.	
1. Schedonorus arundinaceus		60	<u> </u>	FACU	(7.6 cm) or larger in diameter at breast height (DBH)).
2. Poa pratensis		00	Y	FACU	Sapling – Woody plants, excluding woody vines,	
a Trifolium ronona		10	N	FACU	approximately 20 ft (6 m) or more in height and less	
4. Plantago major		15		FACU	than 3 in. (7.6 cm) DBH.	
				1700		
5					Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
6						
7					Herb – All herbaceous (non-woody) plants, including	g
8					herbaceous vines, regardless of size, and woody	
9					plants, except woody vines, less than approximately ft (1 m) in height.	3
10						
					Woody vine – All woody vines, regardless of height.	
11						
			= Total Cov	er		
	50% of total cover: 58	20% of	total cover:	23		
Woody Vine Stratum (Plot size	:)					
1						
2						
3						
4						
5					Hydrophytic	
		0	= Total Cov	er	Vegetation	
	50% of total cover: 0	20% of	total cover:	0	Present? Yes <u>No X</u>	
Remarks: (Include photo numb					I	

Profile Desc	cription: (Describe t	o the depth	needed to docu	ment the ir	ndicator o	or confirn	n the absence of ind	licators.)	
Depth	Matrix		Redo	ox Features	5				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	<u>.</u>
0 — 8	10YR 5/4	100					Clay loam		
							<u> </u>		
_									
_									
							<u> </u>		
¹ Type: C=C	oncentration, D=Depl	etion, RM=Re	educed Matrix, M	S=Masked	Sand Gra	ains.	² Location: PL=Por	e Lining, M=Matri	κ.
Hydric Soil							Indicators	for Problematic I	lydric Soils ³ :
Histosol			Dark Surface	e (S7)				luck (A10) (MLRA	
	bipedon (A2)		Polyvalue Be		e (S8) (N	II RA 147.		Prairie Redox (A16	
	istic (A3)		Thin Dark Su				·	RA 147, 148)	-)
	en Sulfide (A4)		Loamy Gleye			,		ont Floodplain Soil	s (F19)
	d Layers (A5)		Depleted Ma		,			RA 136, 147)	. ,
	uck (A10) (LRR N)		Redox Dark		6)			nallow Dark Surfa	ce (TF12)
	d Below Dark Surface	e (A11)	Depleted Da	rk Surface	(F7)			Explain in Remark	
D Thick Da	ark Surface (A12)		Redox Depre	essions (F8	3)				
🔲 🔲 Sandy N	/lucky Mineral (S1) (L	RR N,	Iron-Mangar	iese Masse	es (F12) (I	LRR N,			
MLR	A 147, 148)		MLRA 13	6)					
🔲 🔲 Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) (I	MLRA 13	6, 122)	³ Indicator	s of hydrophytic v	egetation and
🔲 Sandy F	Redox (S5)		Piedmont Flo	oodplain So	oils (F19)	(MLRA 14	18) wetland	hydrology must be	e present,
🔲 🔲 Stripped	l Matrix (S6)		Red Parent I	Material (F	21) (MLR	A 127, 14	7) unless d	isturbed or proble	matic.
Restrictive	Layer (if observed):	Yes							
Type: Ha	ardpan								
Depth (in	ches): 8						Hydric Soil Pres	ent? Yes	No X
Remarks:	,						y		
Remarks.									

General Site Photos

Upland HM-046







Southeast

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Pike	Sampling Date:
Applicant/Owner: AEP	State: _O	
Investigator(s): BCR	Section, Township, Range: Ohio Surveys VIR	GINIA MILITARY DISTRICT OH93Pike Lot 15464
Landform (hillslope, terrace, etc.): Footslope	Local relief (concave, convex, none): Undula	
Subregion (LRR or MLRA): LRR N Lat: 39.00059	Long: <u>-83.22329</u>	Datum: WGS 84
Soil Map Unit Name: Latham-Wharton silt loams, 15 to 25 percent	slopes NWI cl	assification: N/A
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, explai	in in Remarks.)
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal Circumstar	nces" present? Yes <u>X</u> No
Are Vegetation _, Soil, or Hydrology naturally	/ problematic? (If needed, explain any a	answers in Remarks.)

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 <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland data point associated with adja	acent PEM wetlar	nd. Data point wi	thin existing transmission line R	OW and mowed	l landscape.
Field ID: U-BCR-101519-02					

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Ro	pots (C3) 🔲 Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	s (C6) 🛛 🔲 Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	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 <u>No X</u> Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches):	
Saturation Present? Yes <u>No X</u> Depth (inches):	Wetland Hydrology Present? Yes NoX
·	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes No _X Depth (inches): Includes capillary fringe) No _X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes No _X Depth (inches): Includes capillary fringe) No _X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes No _X Depth (inches): Includes capillary fringe) No _X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes No _X Depth (inches): Includes capillary fringe) No _X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes No _X Depth (inches): Includes capillary fringe) No _X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes No _X Depth (inches): Includes capillary fringe) No _X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes No _X Depth (inches): Includes capillary fringe) No _X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes No _X Depth (inches): Includes capillary fringe) No _X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes No _X Depth (inches): Includes capillary fringe) No _X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,
Saturation Present? Yes No _X Depth (inches): Includes capillary fringe) No _X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection) Includes capillary fringe)	, , , , , , , , , , , , , , , , , , , ,

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		% Cover	Species?	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC: 0 (A)
2					Total Number of Dominant
3					Species Across All Strata: (B)
4					Demonst of Dominant Crossics
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)
6					
		:	= Total Cov	er	Prevalence Index worksheet:
50% of total cov	ver: 0	20% of	total cover:	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1					FACW species $0 x^2 = 0$
2					FAC species $10 \times 3 = 30$
3					FACU species95 x 4 =380
					UPL species15 x 5 =75
4					Column Totals: <u>120</u> (A) <u>485</u> (B)
5 6					Prevalence Index = B/A = 4.04
0		0			Hydrophytic Vegetation Indicators:
F00/ -51					1 - Rapid Test for Hydrophytic Vegetation
50% of total cov		20% of	IOIAI COVEr:	0	2 - Dominance Test is >50%
Shrub Stratum (Plot size: 15'	-				$3 - Prevalence Index is \le 3.0^{1}$
1					4 - Morphological Adaptations ¹ (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
4					
5					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		:	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cov	ver: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5')					approximately 20 ft (6 m) or more in height and 3 in.
1. Schedonorus arundinaceus		80	Y	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Fatoua villosa		10	<u> </u>	FAC	Sapling – Woody plants, excluding woody vines,
3. Daucus carota		45	Ν	UPL	approximately 20 ft (6 m) or more in height and less
4. Rubus allegheniensis		10	N	FACU	than 3 in. (7.6 cm) DBH.
5. Symphyotrichum ericoides		5	N	FACU	Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
10					ft (1 m) in height.
11					Woody vine – All woody vines, regardless of height.
			= Total Cov	er	
50% of total cov	-	20% of	total cover:	24	
Woody Vine Stratum (Plot size: 30'					
1					
2					
3					
4					
5					Hydrophytic
		:	= Total Cov	er	Vegetation
50% of total cov					
	ver: 0	20% of	total cover:	0	Present? Yes <u>No X</u>

Profile Description: (Describe to the depth	needed to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
<u>0 — 5</u> <u>10YR 3/4</u> <u>100</u>		Clay loam
_		
— —		
-		
·		
<u> </u>		
-		
¹ Type: C=Concentration, D=Depletion, RM=R	educed Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	_	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(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)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	2
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Doday (SE)	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present,
Sandy Redox (S5)		
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes		
Stripped Matrix (S6)		
Stripped Matrix (S6) Restrictive Layer (if observed): Yes		
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5) unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky) unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5) unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5) unless disturbed or problematic.
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Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5) unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5) unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5) unless disturbed or problematic.



Soil Profile

East

Project/Site: _AEP Hillsboro to Millbrook Park	City/County: Pike County	Sam	pling Date: _	0/15/2019
Applicant/Owner: AEP		ate: OH Sa	mpling Point	Upland HM-048
Investigator(s): JFW, BCR	Section, Township, Range: Ohio Sur	veys VIRGINIA MILITAF	RY DISTRICT OF	193Pike Lot 15464
Landform (hillslope, terrace, etc.): Footslope	Local relief (concave, convex, none): _	None	Slope	e (%): <u>3</u>
Subregion (LRR or MLRA): LRR N Lat: 38.99778	Long:	-83.21791	Datum	WGS 84
Soil Map Unit Name: Shelocta-Brownsville association, steep		NWI classification:	upland	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no	, explain in Remark	(S.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal Circ	umstances" presen	it? Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, expla	in any answers in F	Remarks.)	

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	X X X	Is the Sampled Area within a Wetland?	Yes	No	
Remarks:							
Associated with W-BCR-101519-01, Ic	cated at the foot	of a sl	ope in an infre	equently maintained ROW.			
Field ID: U-BCR-101519-01							
HYDROLOGY							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Re	oots (C3) 📃 Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ls (C6) L Crayfish Burrows (C8)
Drift Deposits (B3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) L 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 <u>No X</u> Depth (inches):	
Water Table Present? Yes No _X Depth (inches):	
Saturation Present? Yes <u>No X</u> Depth (inches):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes No _X Depth (inches): / (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	
Saturation Present? Yes No _X Depth (inches): / (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	
Saturation Present? Yes No _X Depth (inches): / (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	
Saturation Present? Yes No _X Depth (inches): / (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	
Saturation Present? Yes No _X Depth (inches): / (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection)	

		Absolute Dor	ninant Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:			ecies? Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (A	4)
2		·		Total Number of Dominant	
3		· ·		Species Across All Strata: 2 (B	3)
4				Percent of Dominant Species	
5		·			√B)
6		·		Drevelance haden weekste	
		= To	tal Cover	Prevalence Index worksheet:	
	50% of total cover: 0	20% of tota	I cover: 0	Total % Cover of:Multiply by:	
Sapling Stratum (Plot size:	4				
1				FACW species $0 x 2 = 0$	
2				FAC species $85 x 3 = 255$	
3				FACU species20 x 4 =80	
				UPL species x 5 =0	
4				Column Totals:105 (A)335 ((B)
5				Prevalence Index = B/A =3.19	
6				Hydrophytic Vegetation Indicators:	
	50% of total cover: 0	20% of tota	l cover: 0	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:				2 - Dominance Test is >50%	
				3 - Prevalence Index is $\leq 3.0^1$	
2		·		 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) 	ting
3		·		Problematic Hydrophytic Vegetation ¹ (Explain)	
4					
5					
6				¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	5L
		<u>20</u> = To	tal Cover	Definitions of Five Vegetation Strata:	
	50% of total cover:10	20% of tota	Lcover 4		
Herb Stratum (Plot size:				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.	
1. Dichanthelium clandestinur		70	Y FAC	(7.6 cm) or larger in diameter at breast height (DBH)).
2. Eutrochium purpureum		45	N FAC		
· · · · · · · · · · · · · · · · · · ·				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	
3		· ·		than 3 in. (7.6 cm) DBH.	
4		· ·			
5		·		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
6					
7				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody	g
8				plants, except woody vines, less than approximately	/ 3
9				ft (1 m) in height.	
10				Woody vine – All woody vines, regardless of height	t.
11				,, _,, _	
		<u> 85 </u> = To	tal Cover		
	50% of total cover: <u>43</u>	20% of tota	l cover: 17		
Woody Vine Stratum (Plot size	e: <u> </u>				
1					
2					
3					
4					
5					
		= To		Hydrophytic Vegetation	
	EQ0/ of total action 0			Present? Yes <u>No X</u>	
	50% of total cover: 0				
Remarks: (Include photo num)	pers here or on a separate s	sneet.)			

Profile Description: (Describe to the depth	needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
<u>0 — 5</u> <u>10YR 3/4</u> <u>100</u>		Silty loam
_		
·		
-		
<u> </u>		
_		
<u> </u>		
<u> </u>		
_		
¹ Type: C=Concentration, D=Depletion, RM=Re	nducod Matrix, MS-Maskod Sand Grains	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
-		-
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
$\square Black Histic (A3)$	Thin Dark Surface (S9) (MLRA 147, 148)	(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)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	3
	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	8) wetland hydrology must be present,
Sandy Redox (S5) Stripped Matrix (S6)		8) wetland hydrology must be present,
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes	Piedmont Floodplain Soils (F19) (MLRA 14	8) wetland hydrology must be present,
Sandy Redox (S5) Stripped Matrix (S6)	Piedmont Floodplain Soils (F19) (MLRA 14	8) wetland hydrology must be present,
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes	Piedmont Floodplain Soils (F19) (MLRA 14	8) wetland hydrology must be present,
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Rocky Depth (inches): 5	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present, unless disturbed or problematic.



Soil profile

West



South

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Pike County	Samplii	ng Date:10/16/	2019
Applicant/Owner: AEP	State	OH Sam	pling Point: Upla	nd HM-049
Investigator(s): JFW, BCR	Section, Township, Range: Ohio Surveys	VIRGINIA MILITARY DIS	TRICT OH93Pike Lot r	not numbered
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none): Fla	ıt	Slope (%):	2
Subregion (LRR or MLRA): LRR N Lat: 38.98846	Long:	-83.20111	Datum: WG	S 84
Soil Map Unit Name: Wernock Variant silt loam, 3 to 8 percent slo	pes N	WI classification: <u>N</u>	I/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, e	xplain in Remarks.))	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal Circum	istances" present?	Yes X	lo
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, explain a	any answers in Rer	marks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes	No NoX NoX	Is the Sampled Area within a Wetland?	Yes No
Remarks: Associated with W-BCR-101619-02, lo	acted on a regio	lantial property on a k	ailleide adiacent to a mou	ad area and a read
Field ID: U-BCR-101619-02		ientia property on a r	iniside adjacent to a mow	
HYDROLOGY				
Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is	required; check	call that apply)		Surface Soil Cracks (B6)
Surface Water (A1)		True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od	lor (C1)	Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospher	es on Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Presence of Reduce	d Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	on 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 Rei	marks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)				Geomorphic Position (D2)
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aquitard (D3)
Water-Stained Leaves (B9)				Microtopographic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present? Yes _	No X	Depth (inches):		
Water Table Present? Yes _	NoX	Depth (inches):		
Saturation Present? Yes _	NoX	Depth (inches):	Wetland H	ydrology Present? Yes X No

(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:66.66 (A/E
6				
		Total Cove		Prevalence Index worksheet:
-				Total % Cover of:Multiply by:
50% of total cover: 0	_ 20% of	total cover:	0	OBL species x 1 = 0
Sapling Stratum (Plot size: 15')				FACW species 0 x 2 = 0
1				FAC species 95 x 3 =285
2				FACU species x 4 = 360
3				UPL species $0 \times 5 = 0$
4				· · · · · · · · · · · · · · · · · · ·
5				Column Totals: <u>185</u> (A) <u>645</u> (B
6				Prevalence Index = B/A =3.49
		Total Cove		Hydrophytic Vegetation Indicators:
50% of total cover: 0	_ 20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15')				$\frac{X}{2}$ 2 - Dominance Test is >50%
1. Rhus copallinum		Y		$_$ 3 - Prevalence Index is ≤3.0 ¹
2. Acer rubrum	5	N	FAC	4 - Morphological Adaptations ¹ (Provide supportin
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must
		Total Cove		be present, unless disturbed or problematic.
-				Definitions of Five Vegetation Strata:
50% of total cover: <u>43</u>	_ 20% of	total cover:	17	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5')				approximately 20 ft (6 m) or more in height and 3 in.
1. Toxicodendron radicans		Y	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Dichanthelium clandestinum	15	<u> </u>	FAC	Sapling – Woody plants, excluding woody vines,
3. Solidago canadensis	10	N	FACU	approximately 20 ft (6 m) or more in height and less
4. Equisetum arvense	40	Υ	FAC	than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines,
6				approximately 3 to 20 ft (1 to 6 m) in height.
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
				plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11				, , , , , , , , , ,
-	100 =	= Total Cove	er	
	20% of	total cover:	20	
50% of total cover: 50				
Woody Vine Stratum (Plot size:30')				
Woody Vine Stratum (Plot size: 30')				
Woody Vine Stratum (Plot size:) 1 2				
Woody Vine Stratum (Plot size:				
Woody Vine Stratum (Plot size:				
Woody Vine Stratum (Plot size:				Hydrophytic
Woody Vine Stratum (Plot size:				Vegetation
Woody Vine Stratum (Plot size:	0		 	

Profile Desc	ription: (Describe t	o the depth	needed to docum	ent the in	ndicator o	or confirm	n the absenc	e of indicators.)
Depth	Matrix		Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 — 5	10YR 4/3	95	10YR 5/8	5	C	M	Silty clay loam	
	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS	=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil I			_					cators for Problematic Hydric Soils ³ :
Histosol			Dark Surface					2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Bel				, 148) 🔲	Coast Prairie Redox (A16)
🔲 Black Hi	stic (A3)		🔲 Thin Dark Sur	face (S9)	(MLRA 1	47, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleyed	d Matrix (F	-2)			Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Matr		,			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S		6)			Very Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dark				H	Other (Explain in Remarks)
		(ATT)						
	ark Surface (A12)		Redox Depres					
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) (I	LRR N,		
	A 147, 148)		MLRA 136				2	
	ileyed Matrix (S4)		Umbric Surfac					dicators of hydrophytic vegetation and
🔟 Sandy R	edox (S5)		Piedmont Floo	odplain So	oils (F19)	(MLRA 14	18) v	vetland hydrology must be present,
Stripped	Matrix (S6)		🔲 Red Parent M	aterial (F2	21) (MLR	A 127, 147	7) u	nless disturbed or problematic.
	_ayer (if observed):	Yes						
Type: <u>Har</u>			_					
Depth (ind	ches): <u>5</u>		_				Hydric So	il Present? Yes <u>No X</u>
Remarks:								

General Site Photos

East

Upland HM-049





Soil profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Pike County	Samplir	ng Date: 10	0/16/2019
Applicant/Owner: AEP	Sta	ate: OH Sam	pling Point:	Upland HM-050
Investigator(s): JFW, BCR	Section, Township, Range: Ohio Surve	eys VIRGINIA MILITARY DIS	TRICT OH93Pił	e Lot not numbered
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none): <u>r</u>	ione	Slope	(%): 2
Subregion (LRR or MLRA): LRR N Lat: 38.97858	Long:	-83.18306	Datum:	WGS 84
Soil Map Unit Name: Latham-Wharton silt loams, 15 to 25 percent	slopes	NWI classification: <u>u</u>	pland	
Are climatic / hydrologic conditions on the site typical for this time o	f year? Yes X No (If no	, explain in Remarks.))	
Are Vegetation, Soil, or Hydrology significat	ntly disturbed? Are "Normal Circu	umstances" present?	Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	problematic? (If needed, explai	n 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 <u>X</u> Yes Yes	No NoX NoX	Is the Sampled Area within a Wetland?	Yes	No
Remarks:	stad as a bill in				
Associated with W-BCR-101619-01, loc	ated on a nill in	an infrequently main	ntained ROVV.		
Field ID: U-BCR-101619-01					

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roc	ots (C3) 🔲 Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	(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 <u>No X</u> Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches):	
	etland Hydrology Present? Yes X No
(includes capillary fringe)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
	s), if available:
	s), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	s), if available:

	•	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30')		Species?		Number of Dominant Species
1 Fraxinus pennsylvanica		3	N	FACW	That Are OBL, FACW, or FAC:1 (A)
2					Total Number of Dominant
3					Species Across All Strata:1 (B)
4					Dereent of Deminent Species
5					Percent of Dominant Species That Are OBL, FACW, or FAC:66.67 (A/B)
6					
0			= Total Cov		Prevalence Index worksheet:
				er	Total % Cover of: Multiply by:
	50% of total cover: 2	20% of	total cover:	1	
Sapling Stratum (Plot size:	15')				
	,	1	N	FACU	FACW species3 x 2 =6
					FAC species <u>30</u> x 3 = <u>90</u>
2					FACU species4 x 4 =16
3					UPL species 0 x 5 = 0
4					
5					Column Totals: <u>37</u> (A) <u>112</u> (B)
					Prevalence Index = $B/A = 3.03$
6					
		:	= I otal Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: <u>1</u>	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:					X 2 - Dominance Test is >50%
					3 - Prevalence Index is ≤3.0 ¹
1					
2					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3					. ,
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		0 :	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover:	0	
Herb Stratum (Plot size:					Tree – Woody plants, excluding woody vines,
					approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Dichanthelium clandestinu	m			FAC	
2. Achillea millefolium		2	N	FACU	Sapling – Woody plants, excluding woody vines,
3. Potentilla indica		1	Ν	FACU	approximately 20 ft (6 m) or more in height and less
4					than 3 in. (7.6 cm) DBH.
					Shrub – Woody plants, excluding woody vines,
J					approximately 3 to 20 ft (1 to 6 m) in height.
6					
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					,
		33	= Total Cov	er	
	50% of total action 17	200/ of	total aquam	7	
	50% of total cover: <u>17</u>	20% 01	total cover.	1	
Woody Vine Stratum (Plot size	e: <u> </u>				
1					
2					
3					
4					
5					Hydrophytic
		0 :	= Total Cov	er	Vegetation
	50% of total cover: 0	2004 of	total covor	0	Present? Yes X No
				<u> </u>	
Remarks: (Include photo num	pers here or on a separate s	sneet.)			

	S	0	I	L
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	via ti ana (Daga vila a t	- 411 41					41	Camping	g i oint.
	ription: (Describe t	o the depti				or confirm	the absence of I	ndicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>x Features</u> %	Type ¹	Loc ²	Texture	Rema	rks
0 — 2	10YR 3/2	100					Silty clay loam		
2 — 8	10YR 5/3	80					Silty clay loam		
2 — 8	10YR 3/2	20					Silty clay loam		
_									
_									
_									
_									
_									
¹ Type: C=Co	oncentration, D=Depl	etion RM=F	Reduced Matrix M	S=Masked	Sand Gra	ains	² Location: PL=P	ore Lining M=Ma	atrix
Hydric Soil I				e maonea		anio.		s for Problemati	
Histosol	(A1)		Dark Surface	e (S7)			🔲 2 cm	Muck (A10) (MLF	RA 147)
🔲 Histic Ep	ipedon (A2)		Polyvalue B	elow Surfac	e (S8) (N	ILRA 147,	148) 🔲 Coast	t Prairie Redox (A	A16)
🔲 Black His			Thin Dark S	urface (S9)	(MLRA 1	47, 148)		LRA 147, 148)	
	n Sulfide (A4)		Loamy Gley		-2)			nont Floodplain S	oils (F19)
=	Layers (A5)		Depleted Ma					LRA 136, 147)	
	ck (A10) (LRR N)		Redox Dark		,			Shallow Dark Sur	
	Below Dark Surface	(A11)	Depleted Da					(Explain in Rem	arks)
=	rk Surface (A12)								
	ucky Mineral (S1) (L 147, 148)	KK N,	Iron-Mangar		es (F12) (LKK N,			
	leyed Matrix (S4)			,	MI PA 13	6 122)	³ Indicate	ors of hydrophytic	vegetation and
	edox (S5)		Piedmont Fl					d hydrology must	-
	Matrix (S6)		Red Parent					disturbed or prob	
	ayer (if observed):	Yes		(, ,		,			
Type: Ro									
Depth (inc	:hes): <u>8</u>						Hydric Soil Pre	sent? Yes	<u>No X</u>
Remarks:							1		
1									
1									



East

South



Soil profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Pike County		Sampling Da	ite:	/17/2019
Applicant/Owner: AEP		State: OH	Sampling	Point:	Upland HM-051
Investigator(s): JFW, BCR	Section, Township, Range:	Ohio Surveys VIRGINI	IA MILITARY DISTR	ICT OH	3Pike Lot 14896
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, n	one): Flat		Slope	(%): <u>4</u>
Subregion (LRR or MLRA): LRR N Lat: 38.95886	Long:	-8	3.14581 D	atum:	WGS 84
Soil Map Unit Name: Latham-Wharton silt loams, 15 to 25 percent	slopes	NWI class	ification: N/A		
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in	Remarks.)		
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Norm	al Circumstances	" present? Yes	Х	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed	, explain any answ	wers in Remarks	.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes No Yes No Yes No	<u>X</u> wi	the Sampled Area thin a Wetland?	Yes No
Associated with W-BCR-101719-01, lo	ocated on a hillside in	an infrequently mair	ntained ROW.	
Field ID: U-BCR-101719-01				
Wetland Hydrology Indicators: Primary Indicators (minimum of one i Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Aquatic Fauna (B13)	 True Hydru Oxidi Prese Rece Thin Othe 	Aquatic Plants (B14 ogen Sulfide Odor (i) C1) n Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Water Table Present?Yes _Saturation Present?Yes _	No X Dep No X Dep No X Dep	th (inches):	_	ydrology Present? Yes NoX
(includes capillary fringe) Describe Recorded Data (stream gau Remarks:	ige, monitoring well, a	erial photos, previou	us inspections), if avai	ilable:

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30')		Species?		Number of Dominant Species
1					That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3					Total Number of Dominant Species Across All Strata: 4 (B)
4					
5					Percent of Dominant Species That Are OBL, FACW, or FAC:50.00 (A/B
6					Prevalence Index worksheet:
			= Total Cov	er	Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	
Sapling Stratum (Plot size:	1 = 1	_		_	
1					
2					TAC species x 3
					FACU species65 x 4 =260
3					UPL species x 5 = 0
4					Column Totals: <u>95</u> (A) <u>350</u> (B)
5					3.68
6					Prevalence Index = B/A = <u>3.68</u>
			= Total Cov		Hydrophytic Vegetation Indicators:
	50% of total cover: <u>0</u>	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%
1. Rubus allegheniensis		50	Υ	FACU	3 - Prevalence Index is $\leq 3.0^1$
2					4 - Morphological Adaptations ¹ (Provide supportin
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					¹ Indicators of hydric soil and wetland hydrology must
6			T-tal Cau		be present, unless disturbed or problematic.
			= Total Cov		Definitions of Five Vegetation Strata:
	50% of total cover: 25	20% of	total cover:	10	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in height and 3 in.
1. Dichanthelium clandestinur	m	20	Y	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Lespedeza cuneata		-	<u>N</u>	FACU	Sapling – Woody plants, excluding woody vines,
a Salidaga canadanaia		10	Y	FACU	approximately 20 ft (6 m) or more in height and less
4. Andropogon gerardii		10	Y	FAC	than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
6					
7					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					
		45	= Total Cov	er	
	50% of total cover: 23	20% of	total cover:	9	
Woody Vine Stratum (Plot size					
1					
2					
3					
4					
5					Hydrophytic
			= Total Cov	er	Vegetation
	50% of total cover: 0	20% of	total cover:	0	Present? Yes <u>No X</u>
Remarks: (Include photo num					

	ription: (Describe	to the depth			ator or confirm	the absence of	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	Features % Ty	/pe ¹ Loc ²	Texture	Remarks	
0 — 7	10YR 4/3	100		<u></u>		Loam		,
7 — 12	10YR 5/4	100				Silty clay loam		
_								
_								
_								
¹ Type: C=Co	oncentration, D=Dep	letion. RM=R	educed Matrix. MS	–Masked Sar	nd Grains.	² Location: PL	=Pore Lining, M=Matri	κ.
Hydric Soil I				mashed our			tors for Problematic H	
Histosol			Dark Surface	(S7)		20	cm Muck (A10) (MLRA	147)
	ipedon (A2)				58) (MLRA 147,		bast Prairie Redox (A16	
Black His					_RA 147, 148)		(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleyed				edmont Floodplain Soil	s (F19)
	Layers (A5)		Depleted Matr				(MLRA 136, 147)	
	ck (A10) (LRR N) I Below Dark Surface		Redox Dark S)		ery Shallow Dark Surfa her (Explain in Remark	
	irk Surface (A12)	= (ATT)	Redox Depres)			(3)
	lucky Mineral (S1) (L	.RR N,	Iron-Mangane		12) (LRR N,			
	147, 148)				, ,			
	leyed Matrix (S4)		Umbric Surfac				cators of hydrophytic ve	
	edox (S5)			•	(F19) (MLRA 14		land hydrology must be	
	Matrix (S6)		L Red Parent M	aterial (F21)	(MLRA 127, 147) unle	ess disturbed or proble	matic.
	ayer (if observed):	Yes						
Type: <u>Har</u>								X
Depth (inc	ches): <u>12</u>					Hydric Soil I	Present? Yes	NoX
Remarks:								



West

East



Soil profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto	Sa	ampling Date: _	0/22/2019
Applicant/Owner: AEP		State: OH	Sampling Point	Upland HM-052
Investigator(s): DCS	Section, Township, Range: Ohio S	Surveys VIRGINIA MILITAR	Y DISTRICT OH93Sc	ioto Lot not numbered
Landform (hillslope, terrace, etc.): Footslope	Local relief (concave, convex, none): None	Slop	e (%): <u>5</u>
Subregion (LRR or MLRA): LRR N Lat: 38.92627	Long:	-83.097	<u>734</u> Datum	WGS 84
Soil Map Unit Name: Shelocta-Brownsville association, steep		NWI classification	on: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If	no, explain in Rem	arks.)	
Are Vegetation, Soil, or Hydrology signification	antly disturbed? Are "Normal C	ircumstances" pres	sent? Yes X	No
Are Vegetation _, Soil _, or Hydrologynaturall	y problematic? (If needed, exp	olain any answers i	n Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Yes Yes Yes	No <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No			
getation							
paired with Wetland HM-052							
	Yes Yes	Yes NoX Yes NoX	Yes <u>No X</u> within a Wetland?	Yes No X within a Wetland? Yes Yes No X			

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Livi	ng Roots (C3) 🔲 Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)	l 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 <u>No X</u> Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches):	
Saturation Present? Yes <u>No X</u> Depth (inches):	Wetland Hydrology Present? Yes No $_$ X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	poptions) if available:
Describe Recorded Data (stream gauge, monitoring weil, aenai photos, previous ins	bections), il available.
Demerica	
Remarks:	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Deminerat
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				
5				Percent of Dominant Species That Are OBL_EACW_or EAC: 25 (A/B)
6				That Are OBL, FACW, or FAC: 25 (A/B)
0	-	= Total Cov		Prevalence Index worksheet:
				Total % Cover of:Multiply by:
50% of total cover:	0 20% o	f total cover	0	OBL species x 1 =0
Sapling Stratum (Plot size: 15')				FACW species 40 x 2 = 0
1				FAC species 23 x 3 = 69
2			·	FACU species $105 \times 4 = 420$
3				
4				
5				Column Totals: <u>168</u> (A) <u>489</u> (B)
6				Prevalence Index = B/A = 2.91
0				
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover:	0 20% o	f total cover	. 0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15')				2 - Dominance Test is >50%
1. Physocarpus opulifolius	40	Y	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Rubus allegheniensis	30	Y	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Pinus strobus	5	Ν	FACU	data in Remarks or on a separate sheet)
4			·	Problematic Hydrophytic Vegetation ¹ (Explain)
5			·	
6				¹ Indicators of hydric soil and wetland hydrology must
0		- Total Car		be present, unless disturbed or problematic.
		= Total Cov		Definitions of Five Vegetation Strata:
50% of total cover:	<u>38</u> 20% o	f total cover	: 15	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5')				approximately 20 ft (6 m) or more in height and 3 in.
1. Dichanthelium acuminatum	10	N	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Andropogon virginicus	40	Y	FACU	Sapling – Woody plants, excluding woody vines,
3. Potentilla indica	20	Y	FACU	approximately 20 ft (6 m) or more in height and less
4. Achillea millefolium	5	N	FACU	than 3 in. (7.6 cm) DBH.
5. Dichanthelium clandestinum	8	N	FAC	Shrub – Woody plants, excluding woody vines,
6 Monarda clinopodia	5	N	FACU	approximately 3 to 20 ft (1 to 6 m) in height.
7 Pycnanthemum virginianum	5		FAC	
				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8			·	plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10	·		·	Woody vine – All woody vines, regardless of height.
11				The An woody vines, regardless of height.
	93	= Total Cov	/er	
50% of total cover:	47 20% 0	f total cover	- 19	
Woody Vine Stratum (Plot size:)	20/00			
1				
2				
3				
4		. . 		
5				Hydrophytic
	0	= Total Cov	/er	Vegetation
50% of total cover:	0 20% o	f total cover	0	Present? Yes <u>No X</u>
Remarks: (Include photo numbers here or on a separa				1
	/			

Profile Description: (Describe to the depth	needed to document the indicator or confirm	n the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0 — 10 10YR 5/4 100		Loam
— —		
_		
— —		· · · · · · · · · · · _ = ~ - ~ - ~ - ~ - ~ - ~ - ~ - ~ - ~ - ~
_		
<u> </u>		
_		
	hadres d Matrix M2 Marked 2 and 0 and 0	21 and the Disconstruction of Management
¹ Type: C=Concentration, D=Depletion, RM=R	educed Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(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)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	2
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
		The second s
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 14	7) unless disturbed or problematic.
	Red Parent Material (F21) (MLRA 127, 147	() unless disturbed or problematic.
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	() unless disturbed or problematic.
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks	Red Parent Material (F21) (MLRA 127, 147	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10	Red Parent Material (F21) (MLRA 127, 147	Hydric Soil Present? Yes NoX
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks	Red Parent Material (F21) (MLRA 127, 147	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 147	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 147	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 147	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 147	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 147	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 147 	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 14)	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 14)	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 147	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 14)	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 14)	
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Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 14)	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 14)	
Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: rocks Depth (inches): 10 Remarks:	Red Parent Material (F21) (MLRA 127, 14)	

Upland HM-052



northeast

substrate/soil profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto	S	ampling Date:	10/22/2019
Applicant/Owner: AEP		State: OH	Sampling Poin	t: Upland HM-053
Investigator(s): DCS	Section, Township, Range: Ohio S	Surveys VIRGINIA MILITA	RY DISTRICT OH93So	tioto Lot not numbered
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none): Convex	Slop	e (%): <u>20</u>
Subregion (LRR or MLRA): LRR N Lat: 39.04928	Long:	-83.13	099 Datum	n: WGS 84
Soil Map Unit Name: Latham silt loam, 15 to 25 percent slopes		NWI classificat	ion: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If	no, explain in Ren	narks.)	
Are Vegetation, Soil, or Hydrology signification	antly disturbed? Are "Normal C	ircumstances" pre	esent? Yes >	< No
Are Vegetation _, Soil _, or Hydrologynaturally	y problematic? (If needed, exp	olain any answers	in Remarks.)	

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	X X X	Is the Sampled Area within a Wetland?	Yes	No	x
Remarks:							
upland secondary growth forest hillslope							
Field ID: U-DCS-102219-01							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) 🔲 Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (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 X Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
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Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	

		Absolute	Dominant	Indiaatar	Deminence Test werkehest
Tree Stratum (Plot size:	30'		Dominant Species?		Dominance Test worksheet:
1 Quercus montana)	<u>60</u>	Y	UPL	Number of Dominant Species That Are OBL_FACW_or_FAC ⁻ 1 (A)
					That Are OBL, FACW, or FAC: (A)
2. Quercus rubra		20	<u>N</u>	FACU	Total Number of Dominant
3. Carya ovata		30	Y	FACU	Species Across All Strata: 6 (B)
4. Pinus strobus		10	N	FACU	Denoted Denote and Oracity
5					Percent of Dominant Species That Are OBL, FACW, or FAC:16.67 (A/B)
6					
			= Total Cov	or	Prevalence Index worksheet:
					Total % Cover of: Multiply by:
	50% of total cover: 60	20% of	total cover:	24	OBL species x 1 =0
Sapling Stratum (Plot size:	15')				FACW species $0 x 2 = 0$
1. Quercus montana		30	Y	UPL	
2. Quercus alba		30	Y	FACU	115
3. Carya ovata		10	N	FACU	
· · ·					UPL species115 x 5 =575
4					Column Totals: <u>295</u> (A) <u>1230</u> (B)
5					4.47
6					Prevalence Index = B/A =4.17
		70	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: 35	20% of	total cover	14	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:		2070 01			2 - Dominance Test is >50%
					$3 - Prevalence Index is \le 3.0^{1}$
1					4 - Morphological Adaptations ¹ (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
4					
5					
6					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			= Total Cov	or	
					Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5')				approximately 20 ft (6 m) or more in height and 3 in.
1. Fragaria vesca		10	Y	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
		05	Y	UPL	Conting Massharts such diagons during
3. Pinus strobus		5	N	FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
				FAC	than 3 in. (7.6 cm) DBH.
4. Toxicodendron radicans		5	<u>N</u>	FAC	
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					
		45	= Total Cov	er	
	50% of total cover: 23	20% of	total cover:	9	
Woody Vine Stratum (Plot size					
	,	60	Y	FAC	
2					
3					
4					
4 5					Hydrophytic Vegetation
		60	= Total Cov	er	Hydrophytic Vegetation Present? Yes <u>No X</u>
	50% of total cover:30	60 20% of	= Total Cov	er	Vegetation

JOIL

Profile Desc	ription: (Describe t	o the depth	needed to docu	ment the i	ndicator	or confirm	n the absence	of indicators.)
Depth	Matrix			ox Features		2		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1 — 0	10YR 2/1	100					Loam	organic matter
0 — 6	10YR 6/3	100					Clay loam	very dry
_								
_				·				
				·				
				·				
				·				
				·				
	oncentration, D=Depl	etion, RM=F	Reduced Matrix, M	IS=Masked	Sand Gra	ains.		L=Pore Lining, M=Matrix.
Hydric Soil				(0-)				ators for Problematic Hydric Soils ³ :
	()		Dark Surfac					cm Muck (A10) (MLRA 147)
Black Hi	pipedon (A2)		Thin Dark S		. , .		148) 🛄 C	coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gley			47, 140)		Viedmont Floodplain Soils (F19)
	d Layers (A5)				12)			(MLRA 136, 147)
=	ick (A10) (LRR N)		Redox Dark		6)			/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da		,			Other (Explain in Remarks)
Thick Date	ark Surface (A12)		Redox Depr	essions (F8	3)			
🔲 Sandy M	lucky Mineral (S1) (L	RR N,	🔲 Iron-Mangar	nese Masse	es (F12) (LRR N,		
	A 147, 148)		MLRA 13					
	Bleyed Matrix (S4)		Umbric Surf					icators of hydrophytic vegetation and
	Redox (S5)		Piedmont FI					tland hydrology must be present,
	Matrix (S6)		Red Parent	Material (F	21) (MLR	A 127, 147	7) un	less disturbed or problematic.
	Layer (if observed):	Yes						
Type: <u>roo</u>								
Depth (ind	ches): 0						Hydric Soil	Present? Yes <u>No X</u>
Remarks:								





north

soil profile



soil profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto	S	ampling Date:	10/22/2019
Applicant/Owner: AEP		State: OH	Sampling Poin	t: Upland HM-053
Investigator(s): DCS	Section, Township, Range: Ohio S	Surveys VIRGINIA MILITA	RY DISTRICT OH93So	tioto Lot not numbered
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none): Convex	Slop	e (%): <u>20</u>
Subregion (LRR or MLRA): LRR N Lat: 39.04928	Long:	-83.13	099 Datum	n: WGS 84
Soil Map Unit Name: Latham silt loam, 15 to 25 percent slopes		NWI classificat	ion: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If	no, explain in Ren	narks.)	
Are Vegetation, Soil, or Hydrology signification	antly disturbed? Are "Normal C	ircumstances" pre	esent? Yes >	< No
Are Vegetation _, Soil _, or Hydrologynaturally	y problematic? (If needed, exp	olain any answers	in Remarks.)	

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	X X X	Is the Sampled Area within a Wetland?	Yes	No	x
Remarks:							
upland secondary growth forest hillslope							
Field ID: U-DCS-102219-01							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) 🔲 Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (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 X Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
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Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	

		Absolute	Dominant	Indiaatar	Deminence Test werkehest
Tree Stratum (Plot size:	30'		Dominant Species?		Dominance Test worksheet:
1 Quercus montana)	<u>60</u>	Y	UPL	Number of Dominant Species That Are OBL_FACW_or_FAC ⁻ 1 (A)
					That Are OBL, FACW, or FAC: (A)
2. Quercus rubra		20	<u>N</u>	FACU	Total Number of Dominant
3. Carya ovata		30	Y	FACU	Species Across All Strata: 6 (B)
4. Pinus strobus		10	N	FACU	Denoted Denote and Oracity
5					Percent of Dominant Species That Are OBL, FACW, or FAC:16.67 (A/B)
6					
			= Total Cov	or	Prevalence Index worksheet:
					Total % Cover of: Multiply by:
	50% of total cover: 60	20% of	total cover:	24	OBL species x 1 =0
Sapling Stratum (Plot size:	15')				FACW species $0 x 2 = 0$
1. Quercus montana		30	Y	UPL	
2. Quercus alba		30	Y	FACU	115
3. Carya ovata		10	N	FACU	
· · ·					UPL species115 x 5 =575
4					Column Totals: <u>295</u> (A) <u>1230</u> (B)
5					4.47
6					Prevalence Index = B/A =4.17
		70	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: 35	20% of	total cover	14	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:		2070 01			2 - Dominance Test is >50%
					$3 - Prevalence Index is \le 3.0^{1}$
1					4 - Morphological Adaptations ¹ (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
4					
5					
6					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			= Total Cov	or	
					Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:	5')				approximately 20 ft (6 m) or more in height and 3 in.
1. Fragaria vesca		10	Y	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
		05	Y	UPL	Conting Massharts such diagons during
3. Pinus strobus		5	N	FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
				FAC	than 3 in. (7.6 cm) DBH.
4. Toxicodendron radicans		5	<u>N</u>	FAC	
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					
		45	= Total Cov	er	
	50% of total cover: 23	20% of	total cover:	9	
Woody Vine Stratum (Plot size					
	,	60	Y	FAC	
2					
3					
4					
4 5					Hydrophytic Vegetation
		60	= Total Cov	er	Hydrophytic Vegetation Present? Yes <u>No X</u>
	50% of total cover:30	60 20% of	= Total Cov	er	Vegetation

JOIL

Profile Desc	ription: (Describe t	o the depth	needed to docu	ment the i	ndicator	or confirm	n the absence	of indicators.)
Depth	Matrix			ox Features		2		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1 — 0	10YR 2/1	100					Loam	organic matter
0 — 6	10YR 6/3	100					Clay loam	very dry
_								
_				·				
				·				
				·				
				·				
				·				
	oncentration, D=Depl	etion, RM=F	Reduced Matrix, M	IS=Masked	Sand Gra	ains.		L=Pore Lining, M=Matrix.
Hydric Soil				(0-)				ators for Problematic Hydric Soils ³ :
	()		Dark Surfac					cm Muck (A10) (MLRA 147)
Black Hi	pipedon (A2)		Thin Dark S		. , .		148) 🛄 C	coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gley			47, 140)		viedmont Floodplain Soils (F19)
	d Layers (A5)				12)			(MLRA 136, 147)
=	ick (A10) (LRR N)		Redox Dark		6)			/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da		,			Other (Explain in Remarks)
Thick Date	ark Surface (A12)		Redox Depr	essions (F8	3)			
🔲 Sandy M	lucky Mineral (S1) (L	RR N,	🔲 Iron-Mangar	nese Masse	es (F12) (LRR N,		
	A 147, 148)		MLRA 13					
	Bleyed Matrix (S4)		Umbric Surf					icators of hydrophytic vegetation and
	Redox (S5)		Piedmont FI					tland hydrology must be present,
	Matrix (S6)		Red Parent	Material (F	21) (MLR	A 127, 147	7) un	less disturbed or problematic.
	Layer (if observed):	Yes						
Type: <u>roo</u>								
Depth (ind	ches): 0						Hydric Soil	Present? Yes <u>No X</u>
Remarks:								





north

soil profile



soil profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto	Samplir	ng Date: 10	/21/2019
Applicant/Owner: AEP		ite: OH Sam	pling Point:	Upland HM-054
Investigator(s): DCS	Section, Township, Range: Ohio Surve	ys VIRGINIA MILITARY DISTR	RICT OH93 Sciot	o Lot not numbered
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none):	Convex	Slope	(%): <u>10</u>
Subregion (LRR or MLRA): LRR N Lat: 38.92187	Long:	-83.09181	Datum:	WGS 84
Soil Map Unit Name: Coolville-Rarden silt loams, 8 to 15 percent s	slopes	NWI classification: <u>N</u>	I/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes <u>X</u> No (If no,	explain in Remarks.))	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal Circu	umstances" present?	Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, explai	n any answers in Rer	marks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

5 No_ 6 No_	X X	within a Wetland?	Yes	No
	s No _	s NoX	s NoX	s NoX

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Oxidized Rhizospheres on Living F Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Recent Iron Reduction in Tilled So Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Roots (C3) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Field Observations: Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches): Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes NoX ions), if available:
Remarks:	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:30') 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2 3				Total Number of Dominant Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5			·	That Are OBL, FACW, or FAC:25% (A/B)
6		= Total Cov		Prevalence Index worksheet:
				Total % Cover of:Multiply by:
50% of total cover:0	20% of	total cover	:0	OBL species x 1 = 0
Sapling Stratum (Plot size: 15')				FACW species x 2 =0
1				FAC species15 x 3 =45
2				FACU species <u>80</u> x 4 = <u>320</u>
3		·	·	UPL species 35 x 5 = 175
4				Column Totals: <u>130</u> (A) <u>540</u> (B)
5 6				Prevalence Index = B/A =4.15
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of	total cover	: 0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:15')				2 - Dominance Test is >50%
1 Rubus allegheniensis	10	Ν	FACU	$_$ 3 - Prevalence Index is $\leq 3.0^1$
2. Quercus montana	35	Υ	UPL	4 - Morphological Adaptations ¹ (Provide supporting
3. Acer rubrum	E	N	FAC	data in Remarks or on a separate sheet)
4. Hypericum prolificum				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6.			·	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	60	= Total Cov		
50% of total cover: 30				Definitions of Five Vegetation Strata:
<u>Herb Stratum</u> (Plot size:5')	20%0	lotal cover	12	Tree – Woody plants, excluding woody vines,
1 Detentille indice	40	V	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Potentilla indica 2. Polystichum acrostichoides	40 40 15	- <u>Y</u> Y	FACU	
3. Monarda clinopodia	_ <u>13</u> 5		FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4			17.00	than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines,
6				approximately 3 to 20 ft (1 to 6 m) in height.
7		·		Herb – All herbaceous (non-woody) plants, including
8		·	·	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9		·	·	ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11		= Total Cov		
50% of total cover: <u>30</u>) 20% of	total cover	: 12	
Woody Vine Stratum (Plot size: <u>30'</u>)	10			
1. Smilax rotundifolia				
2				
3				
4			·	
5			·	Hydrophytic
		= Total Cov		Vegetation Present? Yes <u>No X</u>
50% of total cover: 5		total cover	2	
Remarks: (Include photo numbers here or on a separate	sheet.)			

SOI	L
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Profile Description: (Describe to the depth	needed to docun	nent the ir	ndicator o	or confirm	the absence	of indicato	ors.)	
Depth <u>Matrix</u>		x Features						
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
<u>0 — 6</u> <u>10YR 5/3</u> <u>100</u>					Silty clay	lots of ro	ots	
<u>6 — 13</u> <u>10YR 6/3</u> <u>100</u>					Silty clay			
_								
· .								
_								
					2			
¹ Type: C=Concentration, D=Depletion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.	² Location: P			
Hydric Soil Indicators:		(0-1)					oblematic H	
Histosol (A1)	Dark Surface						A10) (MLRA [•] Redox (A16)	
$\square Black Histic (A3)$	Thin Dark Su				148) <u> </u>	MLRA 14		
Hydrogen Sulfide (A4)	Loamy Gleye			47, 140)	ПР		odplain Soils	(F19)
Stratified Layers (A5)	Depleted Mat		,			(MLRA 13	•	
2 cm Muck (A10) (LRR N)	Redox Dark S	Surface (F	6)			ery Shallow	Dark Surface	e (TF12)
Depleted Below Dark Surface (A11)	Depleted Dar					ther (Explai	in in Remarks	5)
Thick Dark Surface (A12)	Redox Depre							
Sandy Mucky Mineral (S1) (LRR N,	Iron-Mangane		es (F12) (I	_RR N,				
MLRA 147, 148) Sandy Gleyed Matrix (S4)	MLRA 13			6 122)	³ Ind	icators of h	ydrophytic ve	bne noitetor
Sandy Redox (S5)	Piedmont Flo						logy must be	
Stripped Matrix (S6)	Red Parent M						ed or problem	
Restrictive Layer (if observed): Yes								
Type: rocks	_							
Depth (inches): <u>13</u>					Hydric Soil	Present?	Yes	<u>No X</u>
Remarks:					_			



north

soil profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto	S	ampling Date: 1	0/23/2019
Applicant/Owner: AEP		State: OH	Sampling Point	Upland HM-055
Investigator(s): DCS	Section, Township, Range: Ohio	Surveys VIRGINIA MILITA	RY DISTRICT OH93Sci	oto Lot not numbered
Landform (hillslope, terrace, etc.): Bench	Local relief (concave, convex, none	e): None	Slop	e (%): <u>10</u>
Subregion (LRR or MLRA): LRR N Lat: 38.91671	Long:	-83.083	391 Datum	WGS 84
Soil Map Unit Name: Shelocta-Wharton-Latham association, steep)	NWI classificati	ion: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (I	f no, explain in Ren	narks.)	
Are Vegetation, Soil, or Hydrology signification	antly disturbed? Are "Normal (Circumstances" pre	sent? Yes X	No
Are Vegetation _, Soil _, or Hydrologynaturally	y problematic? (If needed, ex	plain any answers	in Remarks.)	

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 <u>X</u> No <u>X</u> No <u>X</u>	 Is the Sampled Area within a Wetland?	Yes	No	x
Remarks:						
Upland is located within a historic road.						
Field ID: U-DCS-102319-01						

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	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 X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
water rable Present? $\operatorname{Fes}_{}$ No <u>\wedge</u> Depth (incres).	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes No _X _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No _X _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No _X _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No _X _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	

	Abso	olute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	<u>%</u> C	over	Species?	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC: 2 (A)
2					Total Number of Dominant
3					Total Number of Dominant Species Across All Strata: 4 (B)
4					
					Percent of Dominant Species That are OBL EACW or EAC: 50 (A/B)
5					That Are OBL, FACW, or FAC: 50 (A/B)
6					Prevalence Index worksheet:
	() :	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:	0 2	0% of	total cover:	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size: 15')					FACW species 62 x 2 = 124
1					
2					
					FACU species40 x 4 =160
3					UPL species10 x 5 =50
4					Column Totals: <u>127</u> (A) <u>379</u> (B)
5					$P_{raycolorece}$ index = $P/A = 2.98$
6					
	() :	= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover:	0 2	0% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:15')					2 - Dominance Test is >50%
1. Rubus allegheniensis		10	Y	FACU	3 - Prevalence Index is ≤3.0 ¹
a Dhyacaarpus apulifalius		15	Y		4 - Morphological Adaptations ¹ (Provide supporting
					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
4					
5					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
	2	5	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover:	13 2	0% of	total cover	5	
Herb Stratum (Plot size:5')	2	0 /0 01			Tree – Woody plants, excluding woody vines,
		-		FACW	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Solidago gigantea		5	-		
2. Poa pratensis		25	Y	FACU	Sapling – Woody plants, excluding woody vines,
3. Dichanthelium acuminatum		0	-	FAC	approximately 20 ft (6 m) or more in height and less
4. Pycnanthemum flexuosum		2	N	FACW	than 3 in. (7.6 cm) DBH.
5. Juncus tenuis		5	Ν	FAC	Shrub – Woody plants, excluding woody vines,
6. Daucus carota	1	0	Ν	UPL	approximately 3 to 20 ft (1 to 6 m) in height.
7. Vernonia angustifolia		5	Ν	FACU	Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11				. <u> </u>	
	1	02	= Total Cov	er	
50% of total cover:	51 2	0% of	total cover:	20	
Woody Vine Stratum (Plot size: 30')					
1,					
2					
3					
4					
5					Hydrophytic
	() :	= Total Cov	er	Vegetation
50% of total cover:	0 2	0% of	total cover:	0	Present? Yes <u>No X</u>
Remarks: (Include photo numbers here or on a separa					
	alo onool.	,			

SOIL

Profile Desc	cription: (Describe t	o the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicato	ors.)	
Depth	Matrix		Redox Features				_			
<u>(inches)</u>	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 — 4	10YR 3/3	100					Silty loam			
_										
_										
					. <u></u>					
—										
_										
							,			
						<u> </u>				
¹ Type: C=C	oncentration, D=Depl	etion. RM=Re	educed Matrix. MS	S=Masked	Sand Gra	ins.	² Location: P	L=Pore Lini	ng, M=Matrix.	
Hydric Soil			,,,,,,, _				Indica	ators for Pr	oblematic Hydric	Soils ³ :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A	A10) (MLRA 147)	
	oipedon (A2)		Polyvalue Be		e (S8) (M	LRA 147,			Redox (A16)	
	stic (A3)		Thin Dark Su					(MLRA 14		
	en Sulfide (A4)		🔲 Loamy Gleye	d Matrix (I	-2)		🔲 Р	iedmont Flo	odplain Soils (F19)	
	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 13		
	ıck (A10) (LRR N)		Redox Dark Surface (F6)							
	d Below Dark Surface	(A11)	Depleted Dark Surface (F7) Dther (Explain in Remarks)							
	ark Surface (A12)		Redox Depre							
	Nucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (I	.RR N,				
	A 147, 148) Gleyed Matrix (S4)		MLRA 13 Umbric Surfa			5 122)	³ Ind	icators of h	ydrophytic vegetatic	n and
	Redox (S5)		Piedmont Flo						logy must be prese	
	Matrix (S6)		Red Parent N					-	ed or problematic.	i i i,
	Layer (if observed):	Yes								
Type: gra										
Depth (in			_				Hydric Soil	Present?	Yes No	X
Remarks:	<u> </u>		_				injune con		<u> </u>	<u> </u>
Remarks.										





southwest

substrate

Project/Site: AEP Hillsboro to Millbrook Park	City/County: <u>Scioto</u>	S	Sampling Date: 1	1/01/2019	
Applicant/Owner: AEP		State: OH	Sampling Point	Upland HM-0	56
Investigator(s): MJA, DMS	Section, Township, Range: Ohio	Surveys VIRGINIA MILITA	RY DISTRICT OH93Sci	oto Lot not number	ed
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, non	e): Convex	Slope	e (%): <u>5</u>	
Subregion (LRR or MLRA): LRR N Lat: 38.90206	Long:	-83.06	514 Datum:	WGS 84	
Soil Map Unit Name: Shelocta-Brownsville association, very steep		NWI classificat	ion: N/A		
Are climatic / hydrologic conditions on the site typical for this time c	of year? Yes X No (I	f no, explain in Ren	narks.)		
Are Vegetation, Soil, or Hydrology significa	intly disturbed? Are "Normal	Circumstances" pre	esent? Yes	NoX	
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, ex	plain any answers	in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Upland data point situated on eroded h Field ID: U-MJA-110119-01	Yes Yes Yes hillside, occasiona	No No	X X	Is the Sampled Area within a Wetland?	Yes	No
HYDROLOGY						
Wetland Hydrology Indicators: Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imag Water-Stained Leaves (B9) Aquatic Fauna (B13)		Frue Ad Hydrog Oxidize Presend Recent Fhin Mu	quatic Plants (en Sulfide Od d Rhizospher ce of Reduced	or (C1) es on Living Roots (C3) d Iron (C4) n in Tilled Soils (C6) C7)	Surface Soil Cra Sparsely Vegeta Drainage Patterr Moss Trim Lines Dry-Season Wat Crayfish Burrows	ated Concave Surface (B8) ns (B10) s (B16) ter Table (C2) s (C8) le on Aerial Imagery (C9) sed Plants (D1) sition (D2) d (D3) c Relief (D4)
Water Table Present? Yes _	No X No X No X ge, monitoring we	Depth Depth	(inches): (inches):	Wetland		Yes NoX
Remarks:						

	ite Dominant In	dicator Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30'</u>) <u>% Co</u>	ver Species?	I NUMBER OF DOMINANT Species	
1		That Are OBL, FACW, or FAC:1	(A)
2		Total Number of Dominant	
3			2 (B)
4		Demonstrat Deminant Creation	
5		Percent of Dominant Species	50 (A/B)
6		Prevalence Index worksheet:	
0	= Total Cover		y by
50% of total cover:0 20	% of total cover:		
Sapling Stratum (Plot size: 15')		OBL species x 1 =	
1		FACW species x 2 =	
2			
3		$[FACO species \ x 4 = _$	
4			325 (B)
5 6			61
	= Total Cover		
			ation
50% of total cover: 0 20	% of total cover:	2 - Dominance Test is >50%	
Shrub Stratum (Plot size: <u>15'</u>)			
1			ido cupporting
2		data in Remarks or on a separate	sheet)
3		Problematic Hydrophytic Vegetation ¹	
4			(
5		¹ Indicators of hydric soil and wetland hyd	rology must
6		be present, unless disturbed or problema	itic.
0	= Total Cover	Definitions of Five Vegetation Strata:	
50% of total cover: 20	% of total cover:	0	
Herb Stratum (Plot size: 5')		Tree – Woody plants, excluding woody vi approximately 20 ft (6 m) or more in heigl	ines, ht and 3 in.
	<u> </u>		eight (DBH).
		EAC	huvinoo
		FACU Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heigh	ht and less
4		than 3 in. (7.6 cm) DBH.	
5		Shrub – Woody plants, excluding woody	vines
6		approximately 3 to 20 ft (1 to 6 m) in heig	
7		Herb – All herbaceous (non-woody) plant	ts including
8			
		piants, except woody vines, less than app	proximately 3
9		ft (1 m) in height.	
10		Woody vine – All woody vines, regardles	ss of height.
11	= Total Cover		
50% of total cover: <u>45</u> 20	% of total cover:		
Woody Vine Stratum (Plot size: 30')			
1			
2			
3			
4			
5			
0	= Total Cover	Vegetation	
			Y
50% of total cover:0 20	% of total cover:	Present? Yes No	<u>^</u>

(inches)	<u>Matrix</u> Color (moist)	~ %Co		Features %Ype ¹ Loc ²	Taytura	Domorko
0 10		<u>% 00</u>	lor (moist)	<u>% Type¹ Loc²</u>	<u> </u>	e Remarks Some gravel; disturbed
0 — 18						
_						
_					<u> </u>	
_						
_						
_						
				<u> </u>	<u> </u>	
				<u> </u>	<u> </u>	
_						
	ncentration, D=Depletior	n, RM=Redu	ced Matrix, MS=	-Masked Sand Grains.		: PL=Pore Lining, M=Matrix.
ydric Soil Ir	ndicators:				In	dicators for Problematic Hydric Soils ³
Histosol (Dark Surface (2 cm Muck (A10) (MLRA 147)
	pedon (A2)	님		ow Surface (S8) (MLRA 14	7, 148) 📘	Coast Prairie Redox (A16)
Black His		님		ace (S9) (MLRA 147, 148)	Г	(MLRA 147, 148)
	n Sulfide (A4) Layers (A5)	님	Loamy Gleyed Depleted Matr		<u> </u>	Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	ck (A10) (LRR N)	H	Redox Dark Si		Г	Very Shallow Dark Surface (TF12)
	Below Dark Surface (A1	∣1) <u>⊓</u>	Depleted Dark			Other (Explain in Remarks)
_ '	k Surface (A12)		Redox Depres			
-	ucky Mineral (S1) (LRR	N, 🔲		se Masses (F12) (LRR N,		
	147, 148)	_	MLRA 136)			
	eyed Matrix (S4)	님		e (F13) (MLRA 136, 122)		Indicators of hydrophytic vegetation and
Sandy Re	edox (S5) Matrix (S6)	님		dplain Soils (F19) (MLRA ⁻ aterial (F21) (MLRA 127, 1 4		wetland hydrology must be present, unless disturbed or problematic.
	ayer (if observed): No		Reu Falent Ma		+/)	unless disturbed of problematic.
Type:						
51	hes):				Hydric	Soil Present? Yes NoX
Deptil (inci	nes).				Injune	
'omarke:						
	1					
	1					
	I					
	I					
	1					
	1					
	1					
	1					
	1					
	1					
	1					
	1					
	1					
	1					
Remarks: ery disturbec	1					
	1					
	1					
	1					
	1					



North

Project/Site: AEP Hillsboro to Millbrook Park	City/County: <u>Scioto</u>	Sampling	Date: 11	/01/2019
Applicant/Owner: <u>AEP</u>	State:			Upland HM-057,058
Investigator(s): MJA, DMS	Section, Township, Range: Ohio Surveys V	IRGINIA MILITARY DISTRIC	CT OH93Sciot	o Lot not numbered
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none): Con	vex	Slope	(%): 10
Subregion (LRR or MLRA): LRR N Lat: 38.90024	Long:	-83.06327	Datum:	WGS 84
Soil Map Unit Name: Shelocta-Brownsville association, very steep	NW	/I classification: N/A	λ	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If no, ex	plain in Remarks.)		
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal Circums	stances" present?	Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	v problematic? (If needed, explain a	ny answers in Rema	arks.)	

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 <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	. No <u>X</u>		
Remarks:							
Upland data point situated on west-fac	ing slope, in old	field, under transmis	sion line.				
Field ID: U-MJA-110119-02							

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	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 X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
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Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)
6				
	0	= Total Cov	er	Prevalence Index worksheet:
50% of total cover:) 20% of	total cover	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:15')				OBL species x 1 =
1				FACW species x 2 = 0
2				FAC species x 3 =
				FACU species x 4 = 180
3				UPL species x 5 =0
4				Column Totals: <u>118</u> (A) <u>399</u> (B)
5				Prevalence Index = B/A = 3.38
6		= Total Cov		Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
50% of total cover:	<u> </u>	total cover	0	2 - Dominance Test is >50%
Shrub Stratum (Plot size: <u>15'</u>)	45	Ň		3 - Prevalence Index is $\leq 3.0^{1}$
1. Rubus allegheniensis				4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5			·	¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	15			
	10	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover:8				
50% of total cover:{50% of total cover:				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
	3 20% of	total cover		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5')	3 20% of	total cover	3	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
<u>Herb Stratum</u> (Plot size: <u>5'</u>) 1. <u>Dichanthelium acuminatum</u>	3 20% of 65 20	total cover	3 FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size:5') 1. Dichanthelium acuminatum 2. Andropogon virginicus a. Solidada appadancia	3 20% of 65 20	total cover	FAC FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size:5') 1. Dichanthelium acuminatum 2. Andropogon virginicus 3. Solidago canadensis 4. Dichanthelium clandestinum	3 20% of 65 20 10 5	total cover <u>Y</u> <u>N</u> N	FAC FACU FACU	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size:5') 1. Dichanthelium acuminatum 2. Andropogon virginicus 3. Solidago canadensis 4. Dichanthelium clandestinum 5. Euthamia graminifolia	3 20% of 65 20 10 5 3	total cover	FAC FACU FACU FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size:5') 1. Dichanthelium acuminatum 2. Andropogon virginicus 3. Solidago canadensis 4. Dichanthelium clandestinum 5. Euthamia graminifolia 6	3 20% of 65 20 10 5 3	Y N N N N	FAC FACU FACU FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
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Herb Stratum (Plot size:5') 1. Dichanthelium acuminatum 2. Andropogon virginicus 3. Solidago canadensis 4. Dichanthelium clandestinum 5. Euthamia graminifolia 6	3 20% of 65 20 10 5 3 	total cover Y N N N N N N	FAC FACU FACU FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size:5') 1. Dichanthelium acuminatum 2. Andropogon virginicus 3. Solidago canadensis 4. Dichanthelium clandestinum 5. Euthamia graminifolia 6	3 20% of 65 20 10 5 3 	total cover Y N N N N	FAC FACU FACU FAC FAC FAC	 Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
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Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the i	ndicator	or confirm	the absence	e of indicato	ors.)		
Depth (inches)	Matrix	%	Redo: Color (moist)	x Features		Loc ²	Texture		Remarks		
(inches)	Color (moist) 10YR 5/3	100	Color (moist)	%	Type ¹	LOC	Loam	With grav			
0 — 4	1011 3/3	100					LUalli				
								<u> </u>			
—											
_								<u> </u>			
_											
_								<u> </u>			
_											
·											
							2	· ·			
	oncentration, D=Depl	etion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gra	ains.			ng, M=Matrix.		1 - 3.
Hydric Soil I				(07)					oblematic H		IS :
	(A1) iipedon (A2)		Dark Surface		(CO) /M				A10) (MLRA 1 Redox (A16)		
Black His			Thin Dark Su				140)	(MLRA 14	, ,		
	n Sulfide (A4)		Loamy Gleye			47, 140)			odplain Soils	(F19)	
	Layers (A5)		Depleted Mat		_)			(MLRA 13	•	(1.10)	
	ck (A10) (LRR N)		Redox Dark S		6)				Dark Surface	e (TF12)	
Depleted	Below Dark Surface	e (A11)	Depleted Dar	k Surface	(F7)			Other (Explai	in in Remarks)	
	rk Surface (A12)		Redox Depre								
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) (I	RR N,					
	147, 148)		MLRA 13				3.				
	leyed Matrix (S4)								ydrophytic ve		ind
	edox (S5) Matrix (S6)		Piedmont Flo					-	logy must be ed or problem		
	.ayer (if observed):	Vaa		iateriai (F		4 127, 147) ui				
Type: Gr		res									
Depth (inc							Hvdric Soi	I Present?	Yes	No	х
Remarks:											
Remarks.											



North

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto	Samp	ling Date: 1	0/31/2019
Applicant/Owner: AEP		State: OH Sar	mpling Point:	Upland HM-059
Investigator(s): MJA, DMS	Section, Township, Range: Ohio St	urveys VIRGINIA MILITARY DIS	STRICT OH93Scio	to Lot not numbered
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none)	Convex	Slope	e (%): <u>10</u>
Subregion (LRR or MLRA): LRR N Lat: 38.88347	Long:	-83.04069	Datum:	WGS 84
Soil Map Unit Name: Shelocta-Brownsville association, very steep		_ NWI classification: _	N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes <u>X</u> No (If r	no, explain in Remarks	s.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal Ci	rcumstances" present	? Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, exp	lain any answers in Re	emarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Upland data point on south-facing slope Field ID: U-MJA-103119-01	Yes Ni Yes Ni Yes Ni e, in old field, under	o <u>X</u> o <u>X</u>	Is the Sampled Area within a Wetland?	Yes No
HYDROLOGY				
Wetland Hydrology Indicators: Primary Indicators (minimum of one is) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Aquatic Fauna (B13)	True Hydr Oxid Pres Recc Thin Othe	e Aquatic Plants (rogen Sulfide Ode lized Rhizosphere sence of Reduced	or (C1) es on Living Roots (C3) I Iron (C4) n in Tilled Soils (C6) :7)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Water Table Present? Yes	No X Dep No X Dep No X Dep je, monitoring well, a	pth (inches): pth (inches):	Wetland F	lydrology Present? Yes NoX ilable:
Remarks:				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1		·		That Are OBL, FACW, or FAC: 0 (A)
2		·		Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4				Descent of Descinent Consist
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)
6				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size: 15')				FACW species $0 \times 2 = 0$
1				FAC species $x_2 = 34$
2				
3				
4				UPL species $0 \times 5 = 0$
5				Column Totals: <u>128</u> (A) <u>484</u> (B)
6				Prevalence Index = B/A =3.78
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover:0	20% of	total cover	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:15')				2 - Dominance Test is >50%
1				3 - Prevalence Index is ≤3.0 ¹
				4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5		·		¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	0	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: <u>0</u>	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5')				approximately 20 ft (6 m) or more in height and 3 in.
1. Andropogon virginicus	60	<u> </u>	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Schedonorus arundinaceus	35	Y	FACU	Sapling – Woody plants, excluding woody vines,
3. Pycnanthemum virginianum	15	N	FAC	approximately 20 ft (6 m) or more in height and less
4. Euthamia graminifolia	10		FAC	than 3 in. (7.6 cm) DBH.
5. Cirsium arvense	5	N	FACU	Shrub – Woody plants, excluding woody vines,
6. Symphyotrichum pilosum	3	N	FAC	approximately 3 to 20 ft (1 to 6 m) in height.
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9		·		plants, except woody vines, less than approximately 3
10				ft (1 m) in height.
		·		Woody vine – All woody vines, regardless of height.
11		= Total Cov	er	
50% of total cover: <u>64</u>	20% of	total cover	20	
Woody Vine Stratum (Plot size: 30')				
1				
2				
3		·		
4		·		
5				Hydrophytic
	0	= Total Cov	er	Vegetation
-				
50% of total cover:0	20% of	total cover	0	Present? Yes <u>No X</u>

	Matrix			x Features	Tuno ¹	Loc ²	Touturo	Dom	orko
<u>(inches)</u> 0 — 18	Color (moist) 10YR 5/3	<u> </u>	Color (moist) 10YR 6/8	<u>%</u>	<u>Type¹</u> C	<u>Loc</u> M	Texture Clay loam	Rem With some grave	
0 - 18	1011(3/3		10110/0						·
_									
_									
_									
_									
_									
_									
Type: C=Co	ncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked S	Sand Grai	ns.	² Location: F	PL=Pore Lining, M=N	latrix.
lydric Soil I								ators for Problema	
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (ML	_RA 147)
📃 Histic Ep	ipedon (A2)		Polyvalue Be				148) 🔲 🤇	Coast Prairie Redox	(A16)
Black His			Thin Dark Su			7, 148)	_	(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleye		2)		L F	Piedmont Floodplain	Soils (F19)
	Layers (A5) ck (A10) (LRR N)		Depleted Mat		`			(MLRA 136, 147) /ery Shallow Dark Si	urfaco (TE12)
	Below Dark Surface	(A11)	Depleted Dark					Other (Explain in Rer	
	rk Surface (A12)	, (((()))	Redox Depre						nanto)
	ucky Mineral (S1) (L	.RR N,	Iron-Mangan			RR N,			
	147, 148)		MLRA 13						
	leyed Matrix (S4)		Umbric Surfa					dicators of hydrophyt	
	edox (S5)		Piedmont Flo					etland hydrology mus	
	Matrix (S6) .ayer (if observed):		Red Parent N	laterial (F2	1) (MLRA	127, 147) ur	nless disturbed or pro	oblematic.
	-								
Type:	hee).		_				Undria Cai		No. Y
Depth (Inc	hes):						Hydric Soi	I Present? Yes	No <u>X</u>
Remarks:									



North

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto		Sampling Date: _	0/24/2019
Applicant/Owner: <u>AEP</u>		State: OH	_ Sampling Point	
Investigator(s): DCS	Section, Township, Range:	Ohio Surveys VIRGINIA MIL	ITARY DISTRICT OH	93Scioto Lot 14579
Landform (hillslope, terrace, etc.): Footslope	Local relief (concave, convex, n	one): <u>None</u>	Slop	e (%): <u>20</u>
Subregion (LRR or MLRA): LRR N Lat: 38.87609	Long:	-83.03	3202 Datum	WGS 84
Soil Map Unit Name: Shelocta-Brownsville association, very steep		NWI classifica	tion: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in Re	marks.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Norm	al Circumstances" pr	esent? Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	/ problematic? (If needed	, explain any answers	s in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes YesX Yes	No <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes	No			
Remarks:								
upland in maintained transmission line ROW; typical old field vegetation on steep slope								
paired with Wetland HM-060								
Field ID: U-DCS-102419-01								

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) Image: Surface Water (A1) Image: True Aquatic Plants (B14) Image: Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Image: Drainage Patterns (B10) Image: Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Image: Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Image: Crayfish Burrows (C8) Drift Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Image: Sturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Sturted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Shallow Aquitard (D3)
High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on 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)
Saturation (A3) Oxidized Rhizospheres on 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)
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)
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)
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)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2)
Iron Deposits (B5) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)
Water-Stained Leaves (B9)
Aquatic Fauna (B13)
Field Observations:
Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes <u>No X</u> Depth (inches):
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
,,
Remarks:

	201	Absolute			Dominance Test worksheet:	
Tree Stratum (Plot size:3			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:1	(A)
2						
3					Total Number of Dominant Species Across All Strata: 2	(B)
4					Percent of Dominant Species	
5					That Are OBL, FACW, or FAC:50.00) (A/B)
6			= Total Cov		Prevalence Index worksheet:	
					Total % Cover of: Multiply b	<u>oy:</u>
	50% of total cover: 0	20% of	total cover:	0	OBL species x 1 = 0)
Sapling Stratum (Plot size:					FACW species20 x 2 =4	0
1					FAC species x 3 =22	25
2						60
3)
4						25 (B)
5					2.45	
6					Prevalence Index = B/A = 3.15	
					Hydrophytic Vegetation Indicators:	
	50% of total cover: <u>0</u>	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetati	on
Shrub Stratum (Plot size:					2 - Dominance Test is >50%	
1. Rubus allegheniensis		5	Y	FACU	3 - Prevalence Index is $\leq 3.0^1$	
2					4 - Morphological Adaptations ¹ (Provide	e supporting
3					data in Remarks or on a separate sh	,
4					Problematic Hydrophytic Vegetation ¹ (E	-xplain)
5						
6					¹ Indicators of hydric soil and wetland hydrol be present, unless disturbed or problematic	
			= Total Cov	er	Definitions of Five Vegetation Strata:	
	50% of total cover: <u>3</u>				Deminitions of Five vegetation Strata.	
	<u>5'</u>)	20 /0 01			Tree – Woody plants, excluding woody vine	
Herb Stratum (Plot size:		05	X	FAC	approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast heig	and 3 in. iht (DBH)
2. Polystichum acrostichoides		<u>65</u> 25	<u> </u>	FACU		nt (BBH).
					Sapling – Woody plants, excluding woody	
3. Solidago gigantea		20	<u>N</u>	FACW	approximately 20 ft (6 m) or more in height a than 3 in. (7.6 cm) DBH.	and less
4. Symphyotrichum ericoides		10		FACU FAC		
5. Verbesina alternifolia		10	N		Shrub – Woody plants, excluding woody vir approximately 3 to 20 ft (1 to 6 m) in height.	
6 7					Herb – All herbaceous (non-woody) plants,	including
8					herbaceous vines, regardless of size, and w	
9					plants, except woody vines, less than appro	oximately 3
10					ft (1 m) in height.	
11					Woody vine – All woody vines, regardless	of height.
····		130 =		er		
	FOO/ of total courses of F					
	50% of total cover: <u>65</u>	20% of	total cover:	20		
Woody Vine Stratum (Plot size:						
1						
2						
3						
4						
5					Hydrophytic	
			= Total Cov	er	Vegetation	r
[50% of total cover: 0	20% of	total cover:	0	Present? Yes <u>No X</u>	
Remarks: (Include photo number	rs here or on a separate s	heet.)				

Integration Color (moist) % Color (moist) % Itype Loc lexture Remarks - 12 2.5Y 4/2 98 10YR 5/8 2 C M Clay - - - - - - - - - - - - - - - - - - - <t< th=""><th>pth</th><th>Matrix</th><th></th><th></th><th>x Features</th><th></th><th>. 2</th><th></th></t<>	pth	Matrix			x Features		. 2	
-	ches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	
ric Soil Indicators: Indicators for Problematic Hydric So Histosol (A1) Dark Surface (S7) Dark Surface (S7) Dark Surface (S8) (MLRA 147, 148) Histic Epipedon (A2) Polyvalue Below Surface (S9) (MLRA 147, 148) Doark Surface (S9) (MLRA 147, 148) Doark Surface (S9) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Doary 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 (A12) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, MLRA 136, Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. Ype: Gravel Yes Stripped Matrix (S6) Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic.	— 12	2.5Y 4/2	98	10YR 5/8	2	С	M	Clay
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ric Soil Indicators: Indicators for Problematic Hydric So Histosol (A1) Dark Surface (S7) Dark Surface (S7) Dark Surface (S8) (MLRA 147, 148) Histic Epipedon (A2) Polyvalue Below Surface (S9) (MLRA 147, 148) Doark Surface (S9) (MLRA 147, 148) Doark Surface (S9) (MLRA 147, 148) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Doary 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 (A12) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, MLRA 136, Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. Ype: Gravel Yes Stripped Matrix (S6) Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic.	e C=Co	ncentration D=Depl	etion RM=	Reduced Matrix M	S=Masked	Sand Gra	ains	² Location: 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) Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Peldemont Floodplain Soils (F19) Stratified Layers (A5) Ø Depleted Matrix (F3) (MLRA 136, 147) 2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Ø Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Ø Other (Explain in Remarks) Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, Ø Indicators of hydrophytic vegetation at wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 127, 147) Indicators of problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Inless disturbed or problematic. trictive Layer (if observed): Yes Yes ype: Gravel Gravel				rioudood matrix, m		eand en		
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Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (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 Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) MLRA 136) *utrat 136, Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) *utrat 147, 148) Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) *utrat 0 hydrology must be present, unless disturbed or problematic. 'ype: Gravel 'yes 'yes	•	. ,				ce (S8) (N	ILRA 147	
Stratified Layers (A5)								
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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 Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) MLRA 136) Iron-Manganese Masses (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vegetation a wetland hydrology must be present, Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. trictive Layer (if observed): Yes Yes ype: Gravel				🗹 Depleted Ma	trix (F3)			
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, 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) trictive Layer (if observed): Yes ype: Gravel						,		
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, 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) trictive Layer (if observed): Yes ype: Gravel			e (A11)					Other (Explain in Remarks)
MLRA 147, 148) MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vegetation a Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. Type: Gravel		. ,						
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic vegetation a Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. Type: Gravel	-		.RR N,	-		es (F12) (LRR N,	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. trictive Layer (if observed): Yes Yes							0 400)	31
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic. trictive Layer (if observed): Yes Yes Type: Gravel Gravel	-							
trictive Layer (if observed): Yes								
ype: Gravel			Voc				A 121, 14	
			res					
Pepth (Inches): 12 Hydric Soil Present? Yes <u>No</u>								
iarks:	• •	nes): <u>12</u>						Hydric Soli Present? Yes <u>^</u> No

Upland HM-060





West

Soil Profile

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto	Sampling	J Date: 10)/28/2019
Applicant/Owner: AEP	State:	OH Sampli	ing Point:	Upland HM-061
Investigator(s): MJA, DMS	Section, Township, Range: Ohio Surveys	VIRGINIA MILITARY DI	STRICT OH	93Pike Lot 16035
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none): Flat		Slope	(%): 1
Subregion (LRR or MLRA): LRR N Lat: 38.86944	Long:	-83.01853	Datum:	WGS 84
Soil Map Unit Name: Shelocta-Brownsville association, very steep	NW	/I classification: <u>N/A</u>	4	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes <u>X</u> No (If no, ex	plain in Remarks.)		
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal Circums	stances" present? `	Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, explain a	ny answers in Rema	arks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes YesX			Is the Sampled Area within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes					
Remarks:						
Upland data point situated in mowed ju Field ID: U-MJA-102819-01	nkyard, under tra	ansmis	sion line.			
HYDROLOGY						
Wetland Hydrology Indicators:					Secondary Indicators	s (minimum of two required)
Primary Indicators (minimum of one is) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Aquatic Fauna (B13)		Frue Ad Hydrog Oxidize Presend Recent Fhin Mu	quatic Plants (en Sulfide Od d Rhizospher ce of Reduced	or (C1) es on Living Roots (C3) d Iron (C4) on in Tilled Soils (C6) C7)	Drainage Patterr Moss Trim Lines Dry-Season Wat Crayfish Burrows	ted Concave Surface (B8) ns (B10) 6 (B16) ter Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) sition (D2) d (D3) c Relief (D4)
Field Observations:	X					
	No <u>X</u>					
Saturation Present? Yes (includes capillary fringe)	No X No X	Depth	(inches):	Wetland		Yes NoX
Describe Recorded Data (stream gaug	je, monitoring we	ell, aeri	al photos, pre	evious inspections), if ava	ailable:	
Remarks:						

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:1			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2					
3					Total Number of Dominant Species Across All Strata: 1 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC:(A/B)
6			= Total Cov		Prevalence Index worksheet:
					Total % Cover of: Multiply by:
	50% of total cover: <u>0</u> 15')	20% of	total cover:	0	OBL species x 1 =0
Sapling Stratum (Plot size:	/				FACW species0 x 2 =0
1					FAC species x 3 = 0
2					FACU species65 x 4 =260
3					UPL species <u>15</u> x 5 = <u>75</u>
4					Column Totals: <u>80</u> (A) <u>335</u> (B)
5 6					Prevalence Index = B/A =4.19
0			= Total Cov		Hydrophytic Vegetation Indicators:
	50% of total cover: <u>0</u>				1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:		2078 01	total cover.		2 - Dominance Test is >50%
1					$3 - Prevalence Index is \leq 3.0^{1}$
2					4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
6					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: <u>0</u>				
Herb Stratum (Plot size:		2070 01			Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Schedonorus arundinaceus		60	Y	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
				UPL	
		F		FACU	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4.					than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					
			= Total Cov		
	50% of total cover: 40	20% of	total cover:	16	
Woody Vine Stratum (Plot size					
1					
2					
3					
4					
5					Hydrophytic
			= Total Cov		Vegetation Present? Yes <u>No X</u>
	50% of total cover: 0		total cover:	0	
Remarks: (Include photo numb	pers here or on a separate s	sheet.)			

Profile Description: (Describe to the de	pth needed to docu	ment the indicate	or or confirm	n the absence of in	dicators.)
Depth Matrix	Redo	x Features			
(inches) Color (moist) %	Color (moist)	<u>% Type</u>	Loc ²	Texture	Remarks
0 — 18 10YR 4/2 95	5YR 4/4	5 C	М	Clay loam	
· · · · ·		·			
_					
_					
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, M	S=Masked Sand (Grains.		re Lining, M=Matrix.
Hydric Soil Indicators:	_				for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface				Muck (A10) (MLRA 147)
Histic Epipedon (A2)		elow Surface (S8)			Prairie Redox (A16)
Black Histic (A3)		urface (S9) (MLRA	A 147, 148)		.RA 147, 148)
Hydrogen Sulfide (A4)		ed Matrix (F2)			ont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Ma				.RA 136, 147)
2 cm Muck (A10) (LRR N)	🔲 Redox Dark				Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)		rk Surface (F7)		U Other	(Explain in Remarks)
Thick Dark Surface (A12)	Redox Depr				
Sandy Mucky Mineral (S1) (LRR N,	-	iese Masses (F12) (LRR N,		
MLRA 147, 148)	MLRA 13			3	
Sandy Gleyed Matrix (S4)		ace (F13) (MLRA			rs of hydrophytic vegetation and
Sandy Redox (S5)		odplain Soils (F1			l hydrology must be present,
Stripped Matrix (S6)	L Red Parent	Material (F21) (MI	.RA 127, 14	7) unless of	disturbed or problematic.
Restrictive Layer (if observed): No					
Туре:					
Depth (inches):				Hydric Soil Pres	sent? Yes <u>X</u> No
Remarks:					



North

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto		Sampling Date:	10/28/2019
Applicant/Owner: <u>AEP</u>		State: OH		nt: Upland HM-062,063
Investigator(s): MJA, DMS	Section, Township, Range: <u>T</u>	3 N R 21 W S 31		
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, no		Slop	be (%): <u>1</u>
Subregion (LRR or MLRA): LRR N Lat: 38.86485	Long:	-82.9	9270 Datun	n: WGS 84
Soil Map Unit Name: Landes fine sandy loam, occasionally flooded	b	NWI classifica	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Norma	l Circumstances" pr	resent? Yes	XNo
Are Vegetation _, Soil, or Hydrology naturally	/ problematic? (If needed, e	explain any answer	s in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes Yes	No <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks: Upland data point situated on flat corn	field, under trans	smission line.			
Field ID: U-MJA-102819-02					

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Crayfish Burrows (C8)
Drift Deposits (B3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	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 _X Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches):	
	Hydrology Present? Yes NoX
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if ava	ailable.
Describe recorded Data (stream gauge, monitoring weil, aenai protos, previous inspections), il ave	
Remarks:	
Remarks.	

201	Absolute	Dominant I		Dominance Test worksheet:
Tree Stratum (Plot size:30') 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3				Total Number of Dominant Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5 6				That Are OBL, FACW, or FAC: (A/B)
		= Total Cove		Prevalence Index worksheet:
50% of total cover:	0 20% o	f total cover:	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 15')				OBL species $0 \times 1 = 0$
1,				FACW species <u>10</u> x 2 = <u>20</u>
2				
				FACU species0 x 4 =0
3				
4 5				Column Totals: <u>90</u> (A) <u>420</u> (B)
6				Prevalence Index = B/A = 4.67
	0	= Total Cove	r	Hydrophytic Vegetation Indicators:
50% of total cover:	<u>0</u> 20% o	f total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:15')		_		X 2 - Dominance Test is >50%
1				3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations ¹ (Provide supporting
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6				¹ Indicators of hydric soil and wetland hydrology must
· · · · · · · · · · · · · · · · · · ·		= Total Cove		be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
		C 4 - 4 - 1	0	
50% of total cover:	<u>0</u> 20% o	f total cover:	0	i ree – woody plants, excluding woody vines,
Herb Stratum (Plot size:5')				approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5') 1. Zea mays	80	<u>N</u>	UPL	i ree – woody plants, excluding woody vines,
<u>Herb Stratum</u> (Plot size: <u>5'</u>) 1. <u>Zea mays</u> 2. Lysimachia nummularia	<u> </u>	<u>N</u> Y		 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5') 1. Zea mays	<u> </u>	<u>N</u> Y	UPL	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
<u>Herb Stratum</u> (Plot size: <u>5'</u>) 1. <u>Zea mays</u> 2. Lysimachia nummularia	<u> </u>	<u>N</u> Y	UPL	 Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Herb Stratum (Plot size:5') 1. Zea mays	80 10	<u>N</u> Y	UPL FACW	 approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Herb Stratum (Plot size:5') 1. Zea mays) 2. Lysimachia nummularia	80 10	<u>N</u> Y	UPL FACW	 Iree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb Stratum (Plot size:5') 1. Zea mays	80 10	<u> </u>	UPL FACW	 Iree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5') 1. Zea mays	80 10	N Y	UPL FACW	 Iree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size:5') 1. Zea mays) 2. Lysimachia nummularia	80 10 	N Y	UPL FACW	 Iree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Herb Stratum (Plot size: 5') 1. Zea mays . 2. Lysimachia nummularia . 3	80 10	N Y	UPL FACW	 Iree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
Herb Stratum (Plot size:5') 1. Zea mays) 2. Lysimachia nummularia	80 10	N Y	UPL FACW	 Iree – Woody plants, excluding Woody Vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Herb Stratum (Plot size: 5') 1. Zea mays . 2. Lysimachia nummularia . 3	<u>80</u> 10 	N Y 	UPL FACW	 Iree – Woody plants, excluding Woody Vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size:5') 1. Zea mays	<u>80</u> 10 	N Y 	UPL FACW	 Iree – Woody plants, excluding Woody Vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size:5') 1. Zea mays	80 10 	N Y -	UPL FACW	 Iree – Woody plants, excluding Woody Vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5') 1. Zea mays	80 10 	N Y 	UPL FACW	 Iree – woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size: 5') 1. Zea mays	<u>80</u> 10 <u>90</u> <u>90</u>	N Y 	UPL FACW	 Iree – woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size:5') 1. Zea mays	10 	N Y -	UPL FACW	 Iree – woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size:5') 1. Zea mays	80 10 90 45 20% or	N Y 	UPL FACW	 Iree – woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
Herb Stratum (Plot size:5') 1. Zea mays	80 10 90 10 90 15 20% or	N Y 	UPL FACW	 Iree – woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic
Herb Stratum (Plot size: 5') 1. Zea mays	<u>80</u> 10 <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u>	N Y -	UPL FACW	 Iree – woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation
Herb Stratum (Plot size:5') 1. Zea mays	<u>80</u> 10 <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u>	N Y -	UPL FACW	 Iree – woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic

Profile Descri	iption: (Describe t	o the depth	needed to docum	nent the i	ndicator o	or confirm	the absence of i	ndicators.)	
Depth	Matrix		Redox	Features	3				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 — 18	10YR 3/2	100					Loam		
							·		
							·		
						<u> </u>			
¹ Type: C=Cor	ncentration, D=Deple	 etion. RM=R	educed Matrix. MS	=Masked	Sand Gra	ins.	² Location: PL=P	ore Lining, M=Matrix.	
Hydric Soil In				machea				s for Problematic Hydric	Soils ³ :
Histosol (A			Dark Surface	. ,				Muck (A10) (MLRA 147)	
	pedon (A2)		Polyvalue Bel					t Prairie Redox (A16)	
Black Hist	tic (A3)		Thin Dark Sur			47, 148)		LRA 147, 148)	
	Sulfide (A4)		Loamy Gleye		F2)			nont Floodplain Soils (F19)	
Stratified I	Layers (A5)		Depleted Mat	rix (F3)			(M	LRA 136, 147)	
D 2 cm Muc	k (A10) (LRR N)		Redox Dark S	Surface (F	6)		Uery Very	Shallow Dark Surface (TF1	2)
Depleted I	Below Dark Surface	(A11)	Depleted Darl	k Surface	(F7)		Other	^r (Explain in Remarks)	
Thick Darl	k Surface (A12)		Redox Depres	ssions (F8	3)				
	icky Mineral (S1) (L	RR N.	Iron-Mangane			.RR N.			
	147, 148)	,	MLRA 136		50 (I I L) (
	eyed Matrix (S4)				MI DA 430	6 400)	³ Indiant	ors of hydrophytic vegetatio	n and
Sandy Re			Piedmont Floo					d hydrology must be prese	nt,
	/latrix (S6)		Red Parent M	laterial (F	21) (MLR A	A 127, 147	') unless	disturbed or problematic.	
Restrictive La	ayer (if observed):	No							
Туре:									X
	nes):		_				Hydric Soil Pre	sent? Yes No	<u> </u>
Remarks:									



Soil Profile

West

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto		Sampling Date:	10/30/2019
Applicant/Owner: AEP		State: OH	Sampling Poin	t: Upland HM-064
Investigator(s): MJA, DMS	Section, Township, Range: <u>T 2</u>	N R 21 W S 5		
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none		Slop	e (%): <u>1</u>
Subregion (LRR or MLRA): LRR N Lat: 38.85864	Long:	-82.9	98539 Datum	n: WGS 84
Soil Map Unit Name: <u>Haymond silt loam, occasionally flooded</u>		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If	no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal C	circumstances" p	resent? Yes	<no< td=""></no<>
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, ex	plain any answer	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes			Is the Sampled A within a Wetland		Yes	No
Wetland Hydrology Present?	Yes						
Remarks: Upland data point in old field, under				I			
Field ID: U-MJA-103019-03							
Wetland Hydrology Indicators:					S	econdary Indicators	s (minimum of two required)
Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Water-Stained Leaves (B9) Aquatic Fauna (B13)		True Ad Hydrog Oxidize Presen Recent Thin Me	quatic Plants (en Sulfide Od ed Rhizospher ce of Reduced	lor (C1) es on Living Roots (d Iron (C4) on in Tilled Soils (C6 C7)	(C3)	Surface Soil Cra Sparsely Vegeta Drainage Pattern Moss Trim Lines Dry-Season Wat Crayfish Burrow	acks (B6) ated Concave Surface (B8) ns (B10) s (B16) ter Table (C2) s (C8) le on Aerial Imagery (C9) seed Plants (D1) sition (D2) d (D3) ic Relief (D4)
Field Observations:	···· V						
	No X	-					
	NoX NoX auge, monitoring v	Depth	(inches):	Wetla	-		Yes NoX
Remarks:							

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Demonstrat Dominant Chaption
5				Percent of Dominant Species That Are OBL, FACW, or FAC:50.00 (A/B)
6				Prevalence Index worksheet:
	0	= Total Cov	er	
50% of total cover: 0	20% of	total cover:	0	
Sapling Stratum (Plot size: 15')				
1				
2				FAC species $100 \times 3 = 300$
3				FACU species $85 \times 4 = 340$
4				UPL species x 5 =0
5				Column Totals: <u>185</u> (A) <u>640</u> (B)
6				Prevalence Index = B/A =3.46
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover: <u>0</u>				1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:15')	20% 0	total cover:		2 - Dominance Test is >50%
				3 - Prevalence Index is $\leq 3.0^{1}$
1				4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
	0	= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total cover: <u>0</u>	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5')				approximately 20 ft (6 m) or more in height and 3 in.
1. Arthraxon hispidus	80	Y	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Schedonorus arundinaceus	30	Y	FACU	Sapling – Woody plants, excluding woody vines,
3 Solidago canadensis	25	Ν	FACU	approximately 20 ft (6 m) or more in height and less
4. Microstegium vimineum	20	N	FAC	than 3 in. (7.6 cm) DBH.
5. Ageratina altissima	15	N	FACU	Shrub – Woody plants, excluding woody vines,
6. Glechoma hederacea	15	N	FACU	approximately 3 to 20 ft (1 to 6 m) in height.
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9				plants, except woody vines, less than approximately 3
10				ft (1 m) in height.
11				Woody vine – All woody vines, regardless of height.
		= Total Cov	er	
50% of total cover: <u>93</u>	20% 0	total cover:	- 37	
Woody Vine Stratum (Plot size: 30')				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation
50% of total cover:0	20% of	total cover:	0	Present? Yes <u>No X</u>
Remarks: (Include photo numbers here or on a separate				*

	ription: (Describe t	o the depth r			r or confirm	the absence o	of indicators.)	
Depth (inches)	<u>Matrix</u> Color (moist)	%	<u>Redo:</u> Color (moist)	<u>x Features</u> <u>%</u> <u>Type¹</u>	Loc ²	Texture	Remarks	3
0 — 18	10YR 4/2	100		<u> </u>		Silty loam		,
10	1011(4/2							
_								
—								
	oncentration, D=Depl	etion, RM=Re	duced Matrix, MS	S=Masked Sand G	Grains.		=Pore Lining, M=Matri	
Hydric Soil I		r	_				ors for Problematic H	•
Histosol		<u> </u>	Dark Surface				m Muck (A10) (MLRA	
	pipedon (A2)	l		low Surface (S8)			ast Prairie Redox (A16	5)
Black His	stic (A3) n Sulfide (A4)	1 1	Loamy Gleye	rface (S9) (MLRA d Matrix (E2)	147, 148)		(MLRA 147, 148) edmont Floodplain Soil	c (E10)
	l Layers (A5)	L I	Depleted Mat				(MLRA 136, 147)	IS (F 19)
	ick (A10) (LRR N)	1	Redox Dark S				ry Shallow Dark Surfa	ce (TF12)
	Below Dark Surface	e (A11)		k Surface (F7)			her (Explain in Remark	
	ark Surface (A12)	Ì	Redox Depre					,
🔲 Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masses (F12)	(LRR N,			
	A 147, 148)		MLRA 13					
	ileyed Matrix (S4)	[ce (F13) (MLRA 1			ators of hydrophytic ve	
	edox (S5)	ļ		odplain Soils (F19			and hydrology must be	
	Matrix (S6)	<u>[</u>	Red Parent M	laterial (F21) (ML	RA 127, 147	') unle	ss disturbed or proble	matic.
	_ayer (if observed):							
Туре:								
Depth (inc	ches):		_			Hydric Soil F	Present? Yes	NoX
Remarks:								



Soil Profile

North

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto		Sampling Date:	10/30/2019
Applicant/Owner: AEP		State: OH	Sampling Poir	t: Upland HM-065
Investigator(s): MJA, DMS	Section, Township, Range: <u>T</u>	2 N R 21 W S 5		
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, no		Slop	be (%): <u>10</u>
Subregion (LRR or MLRA): LRR N Lat: 38.85772	Long:	-82.9	8448 Datun	n: WGS 84
Soil Map Unit Name: Fitchville silt loam, 0 to 3 percent slopes		NWI classifica	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Norma	l Circumstances" pi	resent? Yes	XNo
Are Vegetation _, Soil, or Hydrologynaturally	/ problematic? (If needed,	explain any answer	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>X</u> Yes Yes	No NoX NoX	Is the Sampled Area within a Wetland?	Yes	_ No
Remarks:					
Upland data point situated on north-faci	ng slope, in old	field, under transmis	ssion line.		
Field ID: U-MJA-103019-02					

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Oxidized Rhizospheres on Living F Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Recent Iron Reduction in Tilled So Drift Deposits (B3) Thin Muck Surface (C7)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) ils (C6) Saturation Visible on Aerial Imagery (C9)
 Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13) 	 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations: No X Depth (inches):	×.
Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes X No No
(includes capillary fringe)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2			·	Total Number of Dominant
3			·	Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5	<u></u>		·	That Are OBL, FACW, or FAC: 100.00 (A/B)
6				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover	0	$\begin{array}{c} \hline \hline \\ $
Sapling Stratum (Plot size: 15')				FACW species $0 \times 2 = 0$
1				FAC species $k_2 = k_2 = FAC species k_3 = 180$
2				FACU species 43 x 4 = 172
3				PACO species 15 $x 4 = -75$ UPL species 15 $x 5 = -75$
4				Column Totals: 118 (A) 427 (B)
5				Column Totals: $(A) = \frac{427}{427}$ (B)
6				Prevalence Index = B/A =3.62
	0			Hydrophytic Vegetation Indicators:
50% of total cover:0				1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 15')	20 /0 UI			X 2 - Dominance Test is >50%
				$3 - Prevalence Index is \le 3.0^1$
1				4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5			·	¹ Indicators of hydric soil and wetland hydrology must
6			·	be present, unless disturbed or problematic.
		= Total Cov		Definitions of Five Vegetation Strata:
50% of total cover: <u>0</u>	20% of	total cover	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5')				approximately 20 ft (6 m) or more in height and 3 in.
1. Arthraxon hispidus		<u>Y</u>	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Schedonorus arundinaceus	20	N	FACU	Sapling – Woody plants, excluding woody vines,
3. Daucus carota			UPL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4. Andropogon virginicus	15		FACU	
5. Solidago canadensis	5	N	FACU	Shrub – Woody plants, excluding woody vines,
6. Cirsium arvense	3	N	FACU	approximately 3 to 20 ft (1 to 6 m) in height.
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9				ft (1 m) in height.
10				Weedy vize All weedy vizes recordings of beight
11				Woody vine – All woody vines, regardless of height.
		= Total Cov	rer	
50% of total cover: 59	20% of	total cover	24	
Woody Vine Stratum (Plot size:30')				
1,				
2				
3				
4			·	
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes X No
50% of total cover:0		total cover	0	
Remarks: (Include photo numbers here or on a separate	sheet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	n the absence of indicators.)
Depth	Matrix		Redo	x Features	3		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0 — 4	10YR 4/3	100					Clay loam
4 — 10	10YR 4/4	100					Clay
						·	
_							
_							
17 0 0							2
Hydric Soil I	oncentration, D=Deple	etion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
				(07)			-
Histosol	. ,		Dark Surface				2 cm Muck (A10) (MLRA 147)
Black His	pipedon (A2)		Polyvalue Be				, 148) Coast Prairie Redox (A16) (MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			47, 140)	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Mar		(2)		(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark		6)		Very Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Dar		,		Other (Explain in Remarks)
🔲 Thick Da	ark Surface (A12)		Redox Depre	ssions (F8	3)		
🔲 Sandy M	lucky Mineral (S1) (L	RR N,	🔲 Iron-Mangan	ese Masse	es (F12) (I	LRR N,	
	A 147, 148)		MLRA 13				
	leyed Matrix (S4)		Umbric Surfa				³ Indicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo				
	Matrix (S6)		Red Parent N	Aaterial (F	21) (MLR	A 127, 147	7) unless disturbed or problematic.
	_ayer (if observed):	Yes					
Type: Gr							
Depth (ind	ches): <u>10</u>						Hydric Soil Present? Yes No _X
Remarks:							



South

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto		Sampling Date:	10/30/2019
Applicant/Owner: AEP		State: OH	Sampling Poir	nt: Upland HM-066
Investigator(s): MJA, DMS	Section, Township, Range: <u>T 2</u>	2 N R 21 W S 5		
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, non		Slop	oe (%): <u>1</u>
Subregion (LRR or MLRA): LRR N Lat: 38.85366	Long:	-82.9	98200 Datur	n: WGS 84
Soil Map Unit Name: Ockley loam, 1 to 8 percent slopes		NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes <u>X</u> No (I	lf no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significa	Intly disturbed? Are "Normal	Circumstances" p	present? Yes	XNo
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, ex	xplain any answe	rs in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No	х	Is the Sampled Area		Y
Hydric Soil Present?	Yes	No	Х	within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes	_ No_	Х			
Remarks:						
Upland data point situated in old field, Field ID: U-MJA-103019-01	under transmiss	ion line.				
HYDROLOGY						
Wetland Hydrology Indicators:					Secondary Indicators	s (minimum of two required)
Primary Indicators (minimum of one is	s required; check	all that	apply)		Surface Soil Cra	icks (B6)
Surface Water (A1)			juatic Plants ((B14)		ated Concave Surface (B8)
High Water Table (A2)		Hydrog	en Sulfide Od	or (C1)	Drainage Patter	ns (B10)
Saturation (A3)		Oxidize	d Rhizospher	es on Living Roots (C3)	Moss Trim Lines	s (B16)
Water Marks (B1)		Presen	ce of Reduce	d Iron (C4)	Dry-Season Wat	ter Table (C2)
Sediment Deposits (B2)		Recent	Iron Reduction	on in Tilled Soils (C6)	Crayfish Burrow	
Drift Deposits (B3)	_		uck Surface (0			le on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (I	Explain in Rer	marks)	Stunted or Stres	
Iron Deposits (B5)					Geomorphic Pos	
Inundation Visible on Aerial Imag	ery (B7)				Shallow Aquitare	
Water-Stained Leaves (B9)					Microtopographi FAC-Neutral Tes	
Field Observations:						
	No X	Depth	(inches):			
	No X					
	No X				Hydrology Present?	Yes NoX
Describe Recorded Data (stream gau	ge, monitoring w	ell, aeri	al photos, pre	vious inspections), if av	ailable:	
Remarks:						

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30')	% Cover	Species?	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC:1 (A)
2					Total Number of Dominant
3					Species Across All Strata: <u>2</u> (B)
4					Demonst of Dominant Crossics
5					Percent of Dominant Species That Are OBL, FACW, or FAC:50.00 (A/B)
6		·			Prevalence Index worksheet:
		0	= Total Cov	er	Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	$\begin{array}{c} \hline \hline \\ $
Sapling Stratum (Plot size:	<u> </u>				FACW species $0 \times 2 = 0$
1					FAC w species $75 \times 3 = 225$
2					
3					
4					UPL species $0 \times 5 = 0$
5					Column Totals: <u>135</u> (A) <u>465</u> (B)
6					Prevalence Index = B/A =3.44
			= Total Cov		Hydrophytic Vegetation Indicators:
	50% of total cover:0	20% of	total cover-	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:		2070 01			2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 ¹
					4 - Morphological Adaptations ¹ (Provide supporting
2					data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
4					
5					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
			= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: <u>0</u>	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in height and 3 in.
1. Schedonorus arundinaceus	S	60	Y	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Arthraxon hispidus		35	Y	FAC	Sapling – Woody plants, excluding woody vines,
3. Microstegium vimineum		25	N	FAC	approximately 20 ft (6 m) or more in height and less
4. Verbesina alternifolia		15	<u> N </u>	FAC	than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7		. <u> </u>			Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					
11					Woody vine – All woody vines, regardless of height.
			= Total Cov	er	
	50% of total cover: 68	20% of	total cover:	27	
Woody Vine Stratum (Plot size					
1					
2					
3					
4 5					
5			= Total Cov	 er	Hydrophytic
	50% of total action 0				Vegetation Present? Yes <u>No X</u>
	50% of total cover: 0	∠u% or	total cover:	0	
Remarks: (Include photo num	h	- I • • •			

D	inpuon. (Describe i	o the depart	leeded to docun		idicator of	r confirm	the absence of	of indicators.)	
Depth	Matrix		Redo	K Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 — 5	10YR 4/3	100					Loam		
5 — 18	10YR 3/1	100					Loam		
_									
_									
_									
_									
_									
_					·				
_									
$\frac{1}{1}$ Type: C-Cc	ncentration, D=Depl	etion RM-Re	duced Matrix MS	-Masked	 Sand Grai	ns	² Location: PL	=Pore Lining, M=Matrix.	
Hydric Soil I				- IVIASKEU .		115.		tors for Problematic Hyd	Iric Soils ³ :
5		г	Dark Surface	(57)				-	
		<u> </u> 	Dark Surface		a (CO) (NI I	DA 147		cm Muck (A10) (MLRA 1 4	7)
	ipedon (A2)	l r	Polyvalue Be					bast Prairie Redox (A16)	
Black His		l	Thin Dark Su			7, 148)		(MLRA 147, 148)	-10)
	n Sulfide (A4)	l	Loamy Gleye		2)			edmont Floodplain Soils (-19)
	Layers (A5)	ļ	Depleted Mat					(MLRA 136, 147)	
	ck (A10) (LRR N)	j	Redox Dark S					ery Shallow Dark Surface	(TF12)
Depleted	Below Dark Surface	e (A11)	Depleted Dar	k Surface ((F7)		L Ot	her (Explain in Remarks)	
📃 🔟 Thick Da	rk Surface (A12)]	Redox Depre	ssions (F8))				
📘 🔲 Sandy M	ucky Mineral (S1) (L	.RR N,	Iron-Mangane	ese Masse	s (F12) (L l	RR N,			
	147, 148)		MLRA 13						
	leyed Matrix (S4)		Umbric Surfa		MLRA 136	. 122)	³ India	cators of hydrophytic vege	tation and
	edox (S5)	, 	Piedmont Flo					land hydrology must be p	
	Matrix (S6)		Red Parent M					ess disturbed or problema	
				ialenai (FZ		127, 147) unie	ess disturbed of problema	lic.
	ayer (if observed):	No							
Type:	1		-						
-	:hes):		-				Hydric Soil I	Present? Yes	No X
Remarks:									
1									



North

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto	S	Sampling Date: <u>1</u>	0/29/2019
Applicant/Owner: AEP		tate: OH	Sampling Point	Upland HM-067
Investigator(s): MJA, DMS	Section, Township, Range: <u>T 2 N</u>			
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none):		Slope	e (%): <u>10</u>
Subregion (LRR or MLRA): LRR N Lat: 38.83860	Long:	-82.97	329 Datum:	WGS 84
Soil Map Unit Name: Alford silt loam, 10 to 25 percent slopes		NWI classificat	ion: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If n	o, explain in Rer	narks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal Cir	cumstances" pre	esent? Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, expla	ain any answers	in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No_ Yes No Yes No	X within	Sampled Area a Wetland? Yes No	oX
Remarks: Upland data point situated on northwes	st-facing slope, in old f	ield, under transmissic	n line.	
Field ID: U-MJA-102919-01				
HYDROLOGY Wetland Hydrology Indicators:			Cacandary Indiastors (n	ninimum of two required)
Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Aquatic Fauna (B13)	 True A Hydro Oxidiz Prese Recer Thin N Other 	at apply) Aquatic Plants (B14) gen Sulfide Odor (C1) ted Rhizospheres on L nce of Reduced Iron (C nt Iron Reduction in Till /luck Surface (C7) (Explain in Remarks)	Image: Surface Soil Cracks Image: Sparsely Vegetated Image: Drainage Patterns (Ving Roots (C3) Image: Sparsely Vegetated Image: Sparsely Vegetated Image: Drainage Patterns (Ving Roots (C3) Image: Sparsely Vegetated Image: Drainage Patterns (Image: Sparsely Vegetated Image: Drainage Patterns (Image: Sparsely Vegetated Image: Drainage Patterns (Image: Drainage Patterns (<td>s (B6) d Concave Surface (B8) (B10) d 16) Table (C2) C8) on Aerial Imagery (C9) d Plants (D1) on (D2) O3) Relief (D4)</td>	s (B6) d Concave Surface (B8) (B10) d 16) Table (C2) C8) on Aerial Imagery (C9) d Plants (D1) on (D2) O3) Relief (D4)
Field Observations:	No X Dont	h (inchec)		
	No <u>X</u> Depti No <u>X</u> Depti			
Saturation Present? Yes (includes capillary fringe)	No X Dept	h (inches):	Wetland Hydrology Present? Yo	es NoX
Describe Recorded Data (stream gaug	je, monitoring weil, ae	enai priotos, previous ir	spections), il avaliable:	
Remarks:				

Sampling Point: Upland HM-067

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:	30')		Species?		Number of Dominant Species		
1					That Are OBL, FACW, or FAC:	0	(A)
2					Total Number of Dominant		
3					Species Across All Strata:	4	(B)
4							~ /
5					Percent of Dominant Species That Are OBL, FACW, or FAC:	0.00	(A/B)
6							(A/D)
0			= Total Cov		Prevalence Index worksheet:		
					Total % Cover of:	Multiply by:	
	50% of total cover: 0	20% of	total cover:	0	OBL species <u>0</u> x 1	=0	
Sapling Stratum (Plot size:)				FACW species 0 x 2		
1					FAC species 0 x 3		
2					FACU species 145 x 4		
3					UPL species x 4		
4					-		(P)
5					Column Totals: <u>160</u> (A)	655	_ (B)
6					Prevalence Index = B/A =	4.09	
0			= Total Cov		Hydrophytic Vegetation Indicato		
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic	vegetation	
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%		
1. Rubus allegheniensis			Y		3 - Prevalence Index is $\leq 3.0^1$		
2. Rhus copallinum		15	Y	FACU	4 - Morphological Adaptations	s ¹ (Provide sup	porting
3					data in Remarks or on a se	-	
4					Problematic Hydrophytic Vege	etation' (Explai	n)
5							
6					¹ Indicators of hydric soil and wetland	nd hydrology n	nust
			= Total Cov		be present, unless disturbed or pro		
					Definitions of Five Vegetation St	trata:	
	50% of total cover: <u>25</u>				Tree – Woody plants, excluding w	oody vines,	
Herb Stratum (Plot size:	5')	20% of		10	Tree – Woody plants, excluding we approximately 20 ft (6 m) or more	oody vines, in height and 3	in.
1. Schedonorus arundinaceus	<u>5'</u>)	20% of	total cover:	10 FACU	Tree – Woody plants, excluding w	oody vines, in height and 3	s in. BH).
	<u>5'</u>)	20% of	total cover:	10	Tree – Woody plants, excluding we approximately 20 ft (6 m) or more i (7.6 cm) or larger in diameter at br	roody vines, in height and 3 reast height (Dl g woody vines,	BH).
1. Schedonorus arundinaceus	<u>5'</u>)	20% of	total cover:	10 FACU	Tree – Woody plants, excluding we approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br Sapling – Woody plants, excluding approximately 20 ft (6 m) or more	roody vines, in height and 3 reast height (Dl g woody vines,	BH).
1. <u>Schedonorus arundinaceus</u> 2. Polystichum acrostichoides	<u>5'</u>)	20% of <u>50</u> 25	total cover:	10 FACU FACU	Tree – Woody plants, excluding we approximately 20 ft (6 m) or more i (7.6 cm) or larger in diameter at br	roody vines, in height and 3 reast height (Dl g woody vines,	BH).
 Schedonorus arundinaceus Polystichum acrostichoides Daucus carota 	<u>5'</u>)	20% of <u>50</u> <u>25</u> 15	total cover: Y N	10 FACU FACU UPL	Tree – Woody plants, excluding we approximately 20 ft (6 m) or more i (7.6 cm) or larger in diameter at br Sapling – Woody plants, excluding approximately 20 ft (6 m) or more i than 3 in. (7.6 cm) DBH.	roody vines, in height and 3 reast height (Dl g woody vines, in height and le	BH).
 Schedonorus arundinaceus Polystichum acrostichoides Daucus carota Liriodendron tulipifera Plantago major 	<u>5'</u>)	20% of 25 15 10 10	total cover: Y N N N	10 FACU FACU UPL FACU FACU	Tree – Woody plants, excluding we approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at br Sapling – Woody plants, excluding approximately 20 ft (6 m) or more	roody vines, in height and 3 reast height (Dl g woody vines, in height and le woody vines,	BH).
 Schedonorus arundinaceus Polystichum acrostichoides Daucus carota Liriodendron tulipifera Plantago major 	<u>5'</u>)	20% of 25 15 10 10	total cover: Y N N N	10 FACU FACU UPL FACU FACU	 Tree – Woody plants, excluding we approximately 20 ft (6 m) or more it (7.6 cm) or larger in diameter at br Sapling – Woody plants, excluding approximately 20 ft (6 m) or more it than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m) 	roody vines, in height and 3 reast height (Dl g woody vines, in height and le woody vines, in height.	BH). ess
 Schedonorus arundinaceus Polystichum acrostichoides Daucus carota Liriodendron tulipifera Plantago major . 	<u>5'</u>)	20% of 25 15 10 10 	total cover: Y N N N	10 FACU FACU UPL FACU FACU	 Tree – Woody plants, excluding we approximately 20 ft (6 m) or more it (7.6 cm) or larger in diameter at br Sapling – Woody plants, excluding approximately 20 ft (6 m) or more it than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m) Herb – All herbaceous (non-wood) 	roody vines, in height and 3 reast height (Dl g woody vines, in height and le woody vines, in height. y) plants, inclue	BH). ess
 Schedonorus arundinaceus Polystichum acrostichoides Daucus carota Liriodendron tulipifera Plantago major 	<u>5'</u>)	20% of 25 15 10 	total cover: Y N N N N	10 FACU FACU UPL FACU FACU	 Tree – Woody plants, excluding we approximately 20 ft (6 m) or more is (7.6 cm) or larger in diameter at br Sapling – Woody plants, excluding approximately 20 ft (6 m) or more is than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m) Herb – All herbaceous (non-woody herbaceous vines, regardless of si plants, except woody vines, less the statement of the s	roody vines, in height and 3 reast height (DI g woody vines, in height and le woody vines, in height. y) plants, includ ize, and woody	BH). ess ding
1. Schedonorus arundinaceus 2. Polystichum acrostichoides 3. Daucus carota 4. Liriodendron tulipifera 5. Plantago major 6. 7. 8. 9.	<u>5'</u>)	20% of 25 5 15 0 	Y Y N N N	10 FACU FACU UPL FACU FACU	 Tree – Woody plants, excluding we approximately 20 ft (6 m) or more is (7.6 cm) or larger in diameter at br Sapling – Woody plants, excluding approximately 20 ft (6 m) or more is than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m) Herb – All herbaceous (non-woody herbaceous vines, regardless of si 	roody vines, in height and 3 reast height (DI g woody vines, in height and le woody vines, in height. y) plants, includ ize, and woody	BH). ess ding
1. Schedonorus arundinaceus 2. Polystichum acrostichoides 3. Daucus carota 4. Liriodendron tulipifera 5. Plantago major 6.	<u>5'</u>) s	20% of 	Y Y N N N	10 FACU FACU UPL FACU FACU	 Tree – Woody plants, excluding we approximately 20 ft (6 m) or more is (7.6 cm) or larger in diameter at br Sapling – Woody plants, excluding approximately 20 ft (6 m) or more is than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m) Herb – All herbaceous (non-wood herbaceous vines, regardless of si plants, except woody vines, less th ft (1 m) in height. 	roody vines, in height and 3 reast height (Dl g woody vines, in height and le woody vines, in height. y) plants, inclue ize, and woody han approximat	BH). ess ding , tely 3
1. Schedonorus arundinaceus 2. Polystichum acrostichoides 3. Daucus carota 4. Liriodendron tulipifera 5. Plantago major 6. 7. 8. 9.	<u>5'</u>) s	20% of 	V V N N N	10 FACU FACU FACU FACU FACU FACU	 Tree – Woody plants, excluding we approximately 20 ft (6 m) or more is (7.6 cm) or larger in diameter at br Sapling – Woody plants, excluding approximately 20 ft (6 m) or more is than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m) Herb – All herbaceous (non-woody herbaceous vines, regardless of si plants, except woody vines, less the statement of the s	roody vines, in height and 3 reast height (Dl g woody vines, in height and le woody vines, in height. y) plants, inclue ize, and woody han approximat	BH). ess ding , tely 3
1. Schedonorus arundinaceus 2. Polystichum acrostichoides 3. Daucus carota 4. Liriodendron tulipifera 5. Plantago major 6.	<u>5'</u>) s	20% of 	Y Y N N N	10 FACU FACU FACU FACU FACU FACU	 Tree – Woody plants, excluding we approximately 20 ft (6 m) or more is (7.6 cm) or larger in diameter at br Sapling – Woody plants, excluding approximately 20 ft (6 m) or more is than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding approximately 3 to 20 ft (1 to 6 m) Herb – All herbaceous (non-wood herbaceous vines, regardless of si plants, except woody vines, less th ft (1 m) in height. 	roody vines, in height and 3 reast height (Dl g woody vines, in height and le woody vines, in height. y) plants, inclue ize, and woody han approximat	BH). ess ding , tely 3
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Profile Description: (Describe to the depth	n needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) <u>%</u> Type ¹ Loc ²	Texture Remarks
<u>0 — 10 10YR 5/3 100</u>		Loam
_		
— —		
·		
<u> </u>		
—		
_		
¹ Type: C=Concentration, D=Depletion, RM=F	Doducod Matrix, MS_Macked Sand Crains	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Reduced Matrix, MS=Masked Sand Grains.	Indicators for Problematic Hydric Soils ³ :
-		-
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(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)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	 wetland hydrology must be present,
	Piedmont Floodplain Soils (F19) (MLRA 14	
Sandy Redox (S5)		
Sandy Redox (S5) Stripped Matrix (S6)		
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes		
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel) unless disturbed or problematic.
Sandy Redox (S5) Stripped Matrix (S6) Restrictive Layer (if observed): Yes Type: Gravel Depth (inches): <u>10</u>) unless disturbed or problematic.
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North

Soil Profile

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: AEP Hillsboro to Millbrook Park	City/County: <u>Scioto</u>		Sampling Date:	0/29/2019
Applicant/Owner: AEP		State: OH	_ Sampling Point	Upland HM-068
Investigator(s): MJA, DMS	Section, Township, Range: <u>T 2 M</u>	N R 21 W S 15		
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none)		Slop	e (%): <u>0</u>
Subregion (LRR or MLRA): LRR N Lat: 38.82258	Long:	-82.9	5954 Datum	: WGS 84
Soil Map Unit Name: Berks channery silt loam, 8 to 15 percent slo	pes	_ NWI classifica	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No (If	no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal C	ircumstances" pr	resent? Yes 💙	C No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, exp	lain any answer	s in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>X</u> Yes Yes	No X	Is the Sampled Area within a Wetland?	Yes No	x
Remarks:			1		
Upland data point taken in old field, und Field ID: U-MJA-102919-02	ler tranmission lin	ne.			
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indicators (minimu	um of two required)
Primary Indicators (minimum of one is	required; check a	all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)		rue Aquatic Plants		Sparsely Vegetated Cond	cave Surface (B8)
High Water Table (A2)		ydrogen Sulfide Od		Drainage Patterns (B10)	
Saturation (A3)		•	es on Living Roots (C3)	Moss Trim Lines (B16)	()
Water Marks (B1)		resence of Reduce	. ,	Dry-Season Water Table	: (C2)
Sediment Deposits (B2) Drift Deposits (B3)			on in Tilled Soils (C6)	Crayfish Burrows (C8)	rial Imagany (CO)
Algal Mat or Crust (B4)		hin Muck Surface ((ther (Explain in Rei		Stunted or Stressed Plan	
Iron Deposits (B5)			Haiks)	Geomorphic Position (D2	. ,
Inundation Visible on Aerial Image	erv (B7)			Shallow Aquitard (D3)	-)
Water-Stained Leaves (B9)	.) (= .)			Microtopographic Relief ((D4)
Aquatic Fauna (B13)				FAC-Neutral Test (D5)	
Field Observations:					
Surface Water Present? Yes	<u>No X</u> [Depth (inches):			
Water Table Present? Yes	<u>No X</u> [Depth (inches):			
(includes capillary fringe)		Depth (inches):		lydrology Present? Yes	<u>×</u> No
Describe Recorded Data (stream gaug	e, monitoring wel	ll, aerial photos, pre	evious inspections), if ava	ilable:	
Remarks:					

Sampling Point: Upland HM-068

Tree Statum (Plot size: 30' 3: Crever Secret Status Number of Dominant Species 2 (A) 2 3 3 3 (B) Tatal Number of Dominant Species 3 (B) 4		Absolute	Dominant	Indicator	Dominance Test worksheet:
1	Tree Stratum (Plot size: 30')				Number of Dominant Species
3.	1				
3.	2				Total Number of Dominant
4					
s					
6.					
					(A/B)
Sol% of total cover: D Zolk of total cover: D Sapling Stratum (Plot size: 15") - <td< td=""><td></td><td></td><td></td><td></td><td>Prevalence Index worksheet:</td></td<>					Prevalence Index worksheet:
Saaling Stratum (Plot size:15'					Total % Cover of: Multiply by:
Sapling (Plot size:15		20% of	f total cover:	0	OBL species0 x 1 =0
1	Sapling Stratum (Plot size: 15')				
2.	1				
3	2				
4	3				
5.					
6.					Column Lotals: $\underline{143}$ (A) $\underline{460}$ (B)
					Prevalence Index = $B/A = 3.31$
S0% of total cover: 0 20% of total cover: 0 1 1 Rapid Test for Hydrophytic Vegetation Shrub Stratum (Plot size: 15 Y FACU 3 3 1 4 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0° 3 - - - - - - - 4 Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) -					
Shrub Stratum (Plot size:15'					
1. Rubus allegheniensis 15 Y FACU 3 · Prevalence Index is \$3.0 ¹ 2.		20% of	total cover:	0	
2					
3	1. Rubus allegheniensis	15	Y	FACU	
3.	2				4 - Morphological Adaptations' (Provide supporting
4.					
5.					Problematic Hydrophytic Vegetation (Explain)
6.					
15= Total Cover					Indicators of hydric soil and wetland hydrology must
50% of total cover: 8 20% of total cover: 3 Herb Stratum (Plot size: 5') 1 1. Microstegium vimineum 60 Y FAC 2. Addropogon virginicus 20 N FACU 3. Dichanthelium clandestinum 35 Y FAC 4. Ageratina altissima 10 N FACU 5. Euthamia graminifolia 5 N FACU 6. — — — 7. — — — 8. — — — 9. — — — 9. — — — 10. — — — 7. — — — 8. — — — 9. — — — 10. — — — 11. — — — 13.0 = Total Cover 50% of total cover:			= Total Cov		
Herb Stratum (Plot size: 5') 1. Microstegium vimineum 60 Y FAC 2. Andropogon virginicus 20 N FACU 3. Dichanthelium clandestinum 35 Y FAC 4. Ageratina altissima 10 N FACU 5. Euthamia graminifolia 5 N FAC 6.					Definitions of Five Vegetation Strata:
1. Microstegium vimineum 60 Y FAC (7.6 cm) or larger in diameter at breast height (DBH). 2. Andropogon virginicus 20 N FACU Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 3. Dichanthelium clandestinum 35 Y FAC 4. Ageratina altissima 10 N FACU 5. Euthamia graminifolia 5 N FAC 6. — — — 7. — — — 8. — — — 9. — — — 10. N FACU Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 8. — — — — 9. — — — 10. — — — 11. — — — 130 = Total Cover 50% of total cover: 65 20% of total cover: _ _ _ 3. _ _ _ _ 4		20% of	total cover:	3	Tree – Woody plants, excluding woody vines,
2. Andropogon virginicus 20 N FACU 2. Andropogon virginicus 20 N FACU 3. Dichanthelium clandestinum 35 Y FAC 4. Ageratina altissima 10 N FACU 5. Euthamia graminifolia 5 N FAC 6.	Herb Stratum (Plot size: 5')				approximately 20 ft (6 m) or more in height and 3 in.
a. Dichanthelium clandestinum 35 Y FAC approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. Euthamia graminifolia 5 N FAC spring - woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 6. — — — — approximately 20 ft (1 to 6 m) in height. 7. — — — — approximately 20 tt (1 to 6 m) in height. 8. — — — — approximately 20 tt (1 to 6 m) in height. 9. — — — — — approximately 3 to 20 ft (1 to 6 m) in height. 10. — — — — — approximately 3 to 20 ft (1 to 6 m) in height. 10. — — — — — — approximately 3 to 20 ft (1 to 6 m) in height. 10. — — — — — — — # 11. _ 130 = Total Cover 50% of total cover:	1. Microstegium vimineum	60			(7.6 cm) or larger in diameter at breast height (DBH).
3. Dichanthelium clandestinum 35 Y FAC approximately 26 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. Euthamia graminifolia 5 N FAC Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 6.	2. Andropogon virginicus	20	<u>N</u>	FACU	Sapling – Woody plants, excluding woody vines,
4. Ageratina attissifina 10 N PACO 5. Euthamia graminifolia 5 N FAC 6.	3. Dichanthelium clandestinum	35	Y	FAC	approximately 20 ft (6 m) or more in height and less
6.	4. Ageratina altissima	10	N	FACU	than 3 in. (7.6 cm) DBH.
6.	5. Euthamia graminifolia	5	N	FAC	Shrub – Woody plants, excluding woody vines,
7					approximately 3 to 20 ft (1 to 6 m) in height.
8.					Harb All borbassous (non weady) plants including
9			·		
10.					
11. 130 = Total Cover 50% of total cover: 65 20% of total cover: 26 Woody Vine Stratum (Plot size: $30'$) $1.$ 2. $30'$) $1.$ 3. $$ $$ 4. $$ $$ 5. 0 $=$ Total Cover 50% of total cover: 0 $=$ Total Cover 50% of total cover: 0 20% of total cover: 0					ft (1 m) in height.
11.			·		Woody vine – All woody vines regardless of height
50% of total cover: 65 20% of total cover: 26 Woody Vine Stratum (Plot size: 30') 1.	11		·		
Woody Vine Stratum (Plot size:30') 1		130	= Total Cov	er	
Woody Vine Stratum (Plot size:30') 1	50% of total cover: 65	20% of	f total cover:	26	
1					
2.	· · · · · · · · · · · · · · · · · · ·				
3.					
4. .					
5. 0 = Total Cover Hydrophytic 50% of total cover: 0 20% of total cover: 0					
0 = Total Cover 50% of total cover: 0 20% of total cover: 0 Yes X No					
0 = Total Cover Vegetation 50% of total cover: 0 20% of total cover: 0	5				Hydrophytic
		0	= Total Cov	er	Vegetation
	50% of total cover: 0	20% of	f total cover:	0	Present? Yes <u>×</u> No
	Remarks: (Include photo numbers here or on a separate	sheet.)			1

Profile Description: (Describe to the depth needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
<u>0 — 2</u> <u>10YR 3/1</u> <u>100</u>	Loam
<u>2 – 18</u> 10YR 5/4 100	Loam
_	
_	
	· ·
	·
<u>-</u>	·
│ <u>──</u> ── ─── ─── ─── ─── ─── ─── ───	·
	· ·
	·
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147	
Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148)	(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) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	 Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Thick Dark Surface (A12)	
Sandy Mucky Mineral (S1) (LRR N,	
MLRA 147, 148) MLRA 136)	
Sandy Gleyed Matrix (S4)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	
Stripped Matrix (S6)	
Restrictive Layer (if observed): No	
Restrictive Edyer (il observed). No	
Type: Depth (inches):	Hydric Soil Present? Yes NoX
Туре:	Hydric Soil Present? Yes NoX
Type: Depth (inches):	Hydric Soil Present? Yes No _ X
Type: Depth (inches):	Hydric Soil Present? Yes NoX
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>
Type: Depth (inches):	Hydric Soil Present? Yes <u>No X</u>



West

Soil Profile

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: AEP Hillsboro to Millbrook Park 138 kV	City/County: Scioto	S	Sampling Date:	10/28/2019
Applicant/Owner: AEP		State: OH	Sampling Poin	t: Upland HM-069
Investigator(s): RW	Section, Township, Range: <u>T 2</u>	N R 21 W S 26		
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none	e): <u>Convex</u>	Slop	e (%): <u>3</u>
Subregion (LRR or MLRA): LRR Lat: 38.80116	Long:	-82.94	318 Datum	n: WGS 84
Soil Map Unit Name: Shelocta-Brownsville association, very steep		NWI classificat	ion: N/A	
Are climatic / hydrologic conditions on the site typical for this time c	of year? Yes X No (I	f no, explain in Ren	narks.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal	Circumstances" pre	esent? Yes)	KNo
Are Vegetation _, Soil, or Hydrologynaturally	/ problematic? (If needed, ex	kplain any answers	in Remarks.)	

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	X X X	Is the Sampled Area within a Wetland?	Yes	. No <u>X</u>	
Remarks:	otland HM 060						
Associated with W-RW-102819-02, W	eliand HIVI-069						
Field ID: U-RW-102819-02							

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	pils (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 <u>X</u> Depth (inches):	
Water Table Present? Yes No <u>X</u> Depth (inches):	
Saturation Present? Yes No _X Depth (inclus):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	
Saturation Present? Yes <u>No X</u> Depth (inches):	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes <u>No X</u> Depth (inches): (includes capillary fringe)	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	

Sampling Point: Upland HM-069

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species		
1. Acer rubrum		20	Y	FAC	That Are OBL, FACW, or FAC	. <u> </u>	(A)
2. Tilia americana		25	Y	FACU	Tatal Number of Demission		
3. Liriodendron tulipifera		05	Y	FACU	Total Number of Dominant Species Across All Strata:	7	(B)
					opecies Across Air Otrata.		_ (D)
4					Percent of Dominant Species	14.20	
5					That Are OBL, FACW, or FAC	14.29	(A/B)
6					Prevalence Index worksheet		
		70 :	= Total Cov	er	Total % Cover of:		
	50% of total cover: 35	20% of	total cover:	14			
Sapling Stratum (Plot size:	15')				OBL species 0	× I =	
1	,				FACW species 0	x 2 = 0	
2					FAC species 20		
					FACU species 92		
3					UPL species 0	x 5 = 0	
4					Column Totals: 112	(A) 428	(B)
5							
6					Prevalence Index = B/A	=	
		0	= Total Cov	er	Hydrophytic Vegetation Indi	cators:	
	50% of total cover:0	20% of	total covor	0	1 - Rapid Test for Hydroph		
Chrysh Ctrature (Dist size)		20 % 01			2 - Dominance Test is >50	-	
Shrub Stratum (Plot size:	/	0	X	FACU	3 - Prevalence Index is ≤3		
			Y				
2. Rhamnus cathartica		5	Y	FACU	4 - Morphological Adaptat data in Remarks or on	ions' (Provide su	ipporting
3					Problematic Hydrophytic \	•	,
4						regetation (Expi	alli)
5					1		
6					¹ Indicators of hydric soil and w be present, unless disturbed o		must
			= Total Cov			-	
					Definitions of Five Vegetatio	n Strata:	
	50% of total cover: 4	20% of	total cover:	1	Tree – Woody plants, excludin	iq woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or m	ore in height and	3 in.
1. Carex sp.		20	Y	FACU	(7.6 cm) or larger in diameter a	at breast height (DBH).
2. Rubus sp.		15	Y	FACU	Sapling - Woody plants, exclu	udina woodv vine	s.
3.					approximately 20 ft (6 m) or m		
						ere mineignie anna	less
4.					than 3 in. (7.6 cm) DBH.	oro	less
4						-	
4 5					than 3 in. (7.6 cm) DBH. Shrub – Woody plants, exclude approximately 3 to 20 ft (1 to 6	ling woody vines	
4 5 6					Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6	ling woody vines 5 m) in height.	,
7			·		Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w	ling woody vines 5 m) in height. oody) plants, incl	luding
			·		Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless	ling woody vines. 5 m) in height. oody) plants, incl of size, and wood	, luding dy
7					Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w	ling woody vines. 5 m) in height. oody) plants, incl of size, and wood	, luding dy
7 8 9					Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height.	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7 8 9 10					Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7 8 9			·		Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height.	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7 8 9 10		 	= Total Cov		Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height.	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7 8 9 10 11	50% of total cover: <u>18</u>	 	= Total Cov		Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height.	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7 8 9 10	50% of total cover: <u>18</u>	 	= Total Cov		Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height.	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7 8 9 10 11	50% of total cover: <u>18</u> ;e: <u>30'</u>)		= Total Cover:	er 7	Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height.	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7	50% of total cover: <u>18</u> e: <u>30'</u>)	 	= Total Cover:	er	Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height.	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7	50% of total cover: <u>18</u> /e: <u>30'</u>)	 20% of	= Total Cover:	er 7	Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height.	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7	50% of total cover: <u>18</u> e: <u>30'</u>)	 	= Total Cover:	er 7	Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height.	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7	50% of total cover: <u>18</u> e: <u>30'</u>)		= Total Cover:	er 7	Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height. Woody vine – All woody vines	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7	50% of total cover: <u>18</u> e: <u>30'</u>)		= Total Cover:	er 7	Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height. Woody vine – All woody vines	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3
7	50% of total cover: <u>18</u> e: <u>30'</u>)		= Total Cover:	er	Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height. Woody vine – All woody vines	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim s, regardless of h	luding dy nately 3
7	50% of total cover: <u>18</u> e: <u>30'</u>)		= Total Cover:	er	Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6 Herb – All herbaceous (non-w herbaceous vines, regardless plants, except woody vines, les ft (1 m) in height. Woody vine – All woody vines	ling woody vines, 5 m) in height. oody) plants, incl of size, and wood ss than approxim	luding dy nately 3

SOIL

Profile Description: (Describe to the depth	n needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
<u>0 — 12</u> <u>10YR 3/4</u> <u>100</u>		Silty loam
<u> </u>		
<u> </u>		
· ·		·
· · · · ·		
		21 and the Disconstruction of Mathematic
¹ Type: C=Concentration, D=Depletion, RM=F Hydric Soil Indicators:	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
•		
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(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)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.
Restrictive Layer (if observed): No		
Туре:		
Depth (inches):		Hydric Soil Present? Yes <u>No X</u>
Remarks:		



Northwest

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: AEP Hillsboro to Millbrook Park	City/County: Scioto	S	ampling Date:	10/28/2019
Applicant/Owner: AEP		State: OH	Sampling Poin	t: Upland HM-070
Investigator(s): RW	Section, Township, Range: <u>S</u>	2 T1N R21W		
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, nor		Slop	e (%): <u>4</u>
Subregion (LRR or MLRA): LRR Lat: 38.75461	Long:	-82.92	780 Datum	1: WGS 84
Soil Map Unit Name: <u>Haymond silt loam, occasionally flooded</u>		NWI classificati	ion: N/A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in Ren	narks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal	Circumstances" pre	sent? Yes	< No
Are Vegetation _, Soil _ ✓ _, or Hydrology naturally	y problematic? (If needed, e	explain any answers	in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Upland mowed area surrounded on thre	Yes Yes Yes ee sides by roads	No No	X X	Is the Sampled Area within a Wetland?	Yes <u> </u>
Field ID: U-RW-102819-01					
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Aquatic Fauna (B13)		rue Aq Iydroge Xidized Presenc Recent I hin Mu	uatic Plants (l en Sulfide Ode d Rhizosphere e of Reduced	or (C1) es on Living Roots (C3) I Iron (C4) n in Tilled Soils (C6) :7)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Water Table Present? Yes	No X [No X [No X [je, monitoring we	Depth (Depth ((inches): (inches):	Wetland	I Hydrology Present? Yes NoX vailable:

Sampling Point: Upland HM-070

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:			Species?		Number of Dominant Species
1					That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3					Species Across All Strata: 1 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC:0.00 (A/B)
6					Prevalence Index worksheet:
			= Total Cov	er	Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size:)				FACW species x 2 = 0
1					FAC species x 3 =15
2					FACU species 15 x 4 = 60
3					$\begin{array}{c c} \hline & & & \\ \hline & & & \\ \hline \\ \hline$
4					Column Totals: 100 (A) 475 (B)
5					
6					Prevalence Index = B/A =4.75
			= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:					2 - Dominance Test is >50%
1					3 - Prevalence Index is $\leq 3.0^1$
2					4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
6					¹ Indicators of hydric soil and wetland hydrology must
			= Total Cov		be present, unless disturbed or problematic.
	500/ s(tablesses 0				Definitions of Five Vegetation Strata:
	50% of total cover: <u>0</u>	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:		05		וסו	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
a Chalidanium maiua		15	<u> </u>	UPL UPL	
a Bumay arianua				FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
			<u> </u>		than 3 in. (7.6 cm) DBH.
4. Trifolium repens		15	<u> </u>	FACU	
5					Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6					
7					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					
		100=	= Total Cov	er	
	50% of total cover: 50	20% of	total cover:	20	
Woody Vine Stratum (Plot size	e:)				
1					
2					
3					
4					
5					Hydrophytic
			= Total Cov	er	Hydrophytic Vegetation
	50% of total cover: 0	- 20% of	total cover-	0	Present? Yes <u>No X</u>
Remarks: (Include photo num					

SOI	L
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Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the i	ndicator	or confirm	n the absen	ce of indicate	ors.)	
Depth	Matrix			x Features		. 2	— .			
(inches)	Color (moist)		Color (moist)		Type'	Loc ²	Texture		Remarks	
0 - 12	10YR 3/2		10YR 4/6	5	C	M	Silty loan	n		
0 — 12	10YR 5/3	15								
_										
_										
	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lini		
Hydric Soil I	ndicators:							licators for P		-
Histosol			Dark Surface					2 cm Muck (
	oipedon (A2)		Polyvalue Be				, 148)		e Redox (A16)
🔟 Black Hi	· · ·		Thin Dark Su			47, 148)	_	(MLRA 14		
	n Sulfide (A4)		Loamy Gleye		F2)			Piedmont Flo		5 (F19)
	l Layers (A5) ick (A10) (LRR N)		Depleted Mat		(C)			(MLRA 13	56, 147) v Dark Surfac	o (TE12)
	Below Dark Surface	(A11)	Depleted Dark						in in Remarks	
	ark Surface (A12)	(/(11)	Redox Depre							5)
	lucky Mineral (S1) (L	RR N.	Iron-Mangane			LRR N.				
-	A 147, 148)		 MLRA 130			,				
				· · · (F12) (MI DA 13	6 122)	3	Indicators of h	ydrophytic ve	getation and
i 🛄 Sandy G	ileyed Matrix (S4)		Umbric Surfa	ce (F13) (0, 122)		indicator 5 of fi		
	edox (S5)		Ombric Surfa Piedmont Flo					wetland hydro		present,
Sandy R	edox (S5) Matrix (S6)			odplain S	oils (F19)	(MLRA 14	48)		ology must be	
Sandy R	edox (S5)	No	Piedmont Flo	odplain S	oils (F19)	(MLRA 14	48)	wetland hydro	ology must be	
Sandy R	edox (S5) Matrix (S6)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	48)	wetland hydro	ology must be	
Sandy R Stripped Restrictive I Type:	edox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.
Sandy R Stripped Restrictive I Type: Depth (inc Remarks:	aedox (S5) Matrix (S6) Layer (if observed):		Piedmont Flo Red Parent M	odplain S	oils (F19)	(MLRA 14	48) 7)	wetland hydro unless disturb	blogy must be bed or problen	natic.





soil profile

NW

Upland HM-075,076

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Hillsboro-Millbrook Park 138 kV	City/County: <u>Scioto</u>	Samplin	ng Date:
Applicant/Owner: AEP			oling Point:
Investigator(s): MJA, JFW	Section, Township, Range: Ohio S	Surveys VIRGINIA MILITARY DISTR	RICT OH93Scioto LotNotNumbered
Landform (hillslope, terrace, etc.): Shoulder slope	Local relief (concave, convex, none): Convex	Slope (%): <u>15</u>
Subregion (LRR or MLRA): LRR N Lat: 38.94455	Long:	-83.12402	Datum: WGS 84
Soil Map Unit Name: Omu1B1: Omulga silt loam, 2 to 6 percent slo	opes	NWI classification:	/A
Are climatic / hydrologic conditions on the site typical for this time o	f year? Yes X No (If	no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal C	ircumstances" present?	Yes X No
Are Vegetation _, Soil, or Hydrology naturally	problematic? (If needed, ex	plain any answers in Rem	narks.)

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 <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland point for Wetland HM-075 (off-I	ROW) and Wetla	and HM-076. Vegeta	tion mowed within last year.		

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living F	Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	ils (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 X Depth (inches):	
Water Table Present? Yes <u>No X</u> Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes NoX
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No X Depth (inches):	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	, , ,

Sampling Point: U-MJA-121520-04,05

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30')	% Cover	Species?	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC:1 (A)
2					
3					Total Number of Dominant Species Across All Strata: ³ (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)
6					Prevalence Index worksheet:
		0	= Total Cov	er	
	50% of total cover: 0	20% of	total cover	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:					OBL species x 1 =
	/				FACW species0 x 2 =0
1					FAC species35 x 3 =105
2					FACU species90 x 4 =360
3					UPL species0 x 5 =0
4					Column Totals: <u>125</u> (A) <u>465</u> (B)
5					
6					Prevalence Index = B/A = 3.72
			= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: <u>0</u>	20% of	total cover	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)				2 - Dominance Test is >50%
1					3 - Prevalence Index is $\leq 3.0^1$
2					4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
					Problematic Hydrophytic Vegetation ¹ (Explain)
4					
5					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		0	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover	0	
Herb Stratum (Plot size:					Tree – Woody plants, excluding woody vines,
			V	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
2. Setaria pumila		35	Y	FAC	Sapling – Woody plants, excluding woody vines,
3. Schedonorus arundinaceus	3	25	<u> </u>	FACU	approximately 20 ft (6 m) or more in height and less
4. Trifolium pratense		10	<u> N </u>	FACU	than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					
11					Woody vine – All woody vines, regardless of height.
			= Total Cov	er	
	50% of total cover: <u>63</u>	20% of	total cover	25	
Woody Vine Stratum (Plot size	e: <u> </u>				
1					
2					
3					
4					
5					Hydrophytic
		0	= Total Cov	er	Vegetation
	50% of total cover: 0	20% of	total cover	0	Present? Yes <u>No X</u>
Remarks: (Include photo numb					
I remarks. (include photo numi	bers here or on a separate s	meet.)			

Profile Desc	ription: (Describe to	o the depth r	needed to docun	nent the i	ndicator o	or confirm	the absen	ce of indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 📕 4	10YR 2/2	100	/				Loam	Gravel	
					·				
					·				
			<u> </u>						
$\frac{1}{1}$	oncentration, D=Deple	tion PM-Po	ducad Matrix MS	-Maskod	Sand Gra	aine	² Location:	PL=Pore Lining, M=Matrix.	
Hydric Soil I					Sanu Gra	an 15.		icators for Problematic Hydr	ric Soils ³ .
-				(07)					
			Dark Surface		(00) (14			2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be				148) 🛄	Coast Prairie Redox (A16)	
Black His	. ,	1	Thin Dark Su	. ,	•	47, 148)		(MLRA 147, 148)	10)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye		FZ)			Piedmont Floodplain Soils (F (MLRA 136, 147)	19)
	ck (A10) (LRR N)	L	Depleted Mat Redox Dark S		(C)			Very Shallow Dark Surface (T	
	Below Dark Surface	(A11)	Depleted Dark		,		片	Other (Explain in Remarks)	IF 12)
	irk Surface (A12)		Redox Depre						
	lucky Mineral (S1) (LI		Iron-Mangane		-				
	147, 148)		MLRA 130		55 (I 12) (I	LIXIX IN,			
	leyed Matrix (S4)		Umbric Surfa		MI DA 13	6 122)	3	ndicators of hydrophytic vegeta	ation and
	edox (S5)	l	Piedmont Flo					wetland hydrology must be pre	
	Matrix (S6)	-	Red Parent M					unless disturbed or problemation	
	ayer (if observed):	Vaa				~ 121, 141			0.
Type: Gr		res							
			-						
Depth (inc	ches): <u>4</u>		_				Hydric So	oil Present? Yes	No <u>X</u>
Remarks:									





North

Soil Profile

Upland HM-077,078

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Hillsboro-Millbrook Park 138 kV	City/County: Scioto	Sam	oling Date: 1	2/15/2020
Applicant/Owner: AEP				U-MJA-121520-02,03
Investigator(s): MJA, JFW	Section, Township, Range	Ohio Surveys VIRGINIA MILITARY D	ISTRICT OH93Sci	oto LotNotNumbered
Landform (hillslope, terrace, etc.): <u>Hillside</u>	Local relief (concave, convex,	none): Flat	Slope	e (%): <u>15</u>
Subregion (LRR or MLRA): <u>LRR N</u> Lat: <u>38.93896</u>	Long:	-83.11625	Datum:	WGS 84
Soil Map Unit Name: MoC2: Monongahela silt loam, 8 to 15 percer	nt slopes, eroded	NWI classification:	N/A	
Are climatic / hydrologic conditions on the site typical for this time c	of year? Yes X No	(If no, explain in Remark	s.)	
Are Vegetation 🗹 , Soil 🗹 , or Hydrology significa	ntly disturbed? Are "Nor	mal Circumstances" presen	t? Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	/ problematic? (If neede	d, explain any answers in R	lemarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes YesX YesX	No <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland point for Wetlands HM-077 and H	IM-078. In activ	ve cow pasture.			

HYDROLOGY

Wetland Hydrology Indicate	ors:				Seco	ondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is require	ed; check	all that apply)			Surface Soil Cracks (B6)
Surface Water (A1)			Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)			Hydrogen Sulfide Odor (C1)			Drainage Patterns (B10)
Saturation (A3)		\checkmark	Oxidized Rhizospheres on 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 So	oils (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 Aer	ial Imagery (B7	')				Shallow Aquitard (D3)
Water-Stained Leaves (B	9)					Microtopographic Relief (D4)
Aquatic Fauna (B13)						FAC-Neutral Test (D5)
Field Observations:						
Surface Water Present?	Yes N	√o_X	Depth (inches):			
Water Table Present?	Yes N	√o_X	Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes N	No X	Depth (inches):	Wetland H	Hydro	logy Present? Yes <u>X</u> No <u>X</u>
	eam gauge, moi	nitoring w	ell, aerial photos, previous inspec	tions), if ava	ailable	:
Remarks:						

Sampling Point: U-MJA-121520-02,03

	Absolute D	ominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:30')	% Cover S	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata:2 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)
6				
		Total Cove		Prevalence Index worksheet:
				Total % Cover of: Multiply by:
50% of total cover: <u>0</u>	20% of to	tal cover:	0	OBL species x 1 = 0
Sapling Stratum (Plot size: 15')				FACW species0 x 2 =0
1				FAC species x 3 =0
2				FACU species x 4 =440
3				UPL species 0 x 5 = 0
4				Column Totals: <u>110</u> (A) <u>440</u> (B)
5				
6				Prevalence Index = B/A = 4.00
	0 =	Total Cove		Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
50% of total cover: <u>0</u>	20% of to	tal cover:	0	2 - Dominance Test is >50%
Shrub Stratum (Plot size: <u>15'</u>)				2 - Dominance Test is >50% 3 - Prevalence Index is <3.0 ¹
1				
2				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				
5				
6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		Total Cove	er	Definitions of Five Vegetation Strata:
E0% of total accurate	200% of to		0	Demitions of Five vegetation Strata.
50% of total cover: <u>0</u>	20% 01 10	tal cover.		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5')			FAGU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Schedonorus arundinaceus			FACU	
2. Andropogon virginicus	35	Υ	FACU	Sapling – Woody plants, excluding woody vines,
3. Trifolium repens	15	N	FACU	approximately 20 ft (6 m) or more in height and less
4				than 3 in. (7.6 cm) DBH.
5				Shrub – Woody plants, excluding woody vines,
6				approximately 3 to 20 ft (1 to 6 m) in height.
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9				plants, except woody vines, less than approximately 3
				ft (1 m) in height.
10				Woody vine – All woody vines, regardless of height.
11				
	110 = -	Total Cove	er	
50% of total cover: <u>55</u>	20% of to	tal cover:	22	
Woody Vine Stratum (Plot size: 30')				
1				
2				
3				
4				
5				Hydrophytic
		Total Cove		Vegetation Present? Yes No X
50% of total cover:0	20% of to	tal cover:	0	Present? Yes <u>No X</u>
Remarks: (Include photo numbers here or on a separate s	sheet.)			

SOIL

Profile Description:	(Describe to the dep	oth needed to docur	nent the in	dicator or	r confirm	the absence	e of indicato	rs.)	
Depth	Matrix		x Features	1	. 2				
	<u>(moist) %</u>	Color (moist)		Type ¹	Loc ²	Texture	·	Remarks	
0 📕 2 10YR 4	1/2 98	7.5YR 4/6		<u> </u>	PL	Clay loam	. <u> </u>		
2 📕 12 10YR 4	1/6 100					Clay loam			
							·		
				<u> </u>			. <u> </u>		
							· .		
						2	. <u> </u>		
¹ Type: C=Concentrati Hydric Soil Indicators		Reduced Matrix, MS	S=Masked S	Sand Grai	ns.		PL=Pore Linir	ng, M=Matrix. Soblematic Hyd	Iria Saila ³ :
Hydric Soli Indicators	5.	Dark Surface	(97)					10) (MLRA 14	
Histosof (AT)	12)	Polyvalue Be		(S8) (MI	RA 147		2 cm Muck (A Coast Prairie		7)
Black Histic (A3)	~~)	Thin Dark Su				140)	(MLRA 147	· · ·	
Hydrogen Sulfide	(A4)	Loamy Gleye			.,,			odplain Soils (F	-19)
Stratified Layers (Depleted Ma		,			(MLRA 136		
2 cm Muck (A10)	(LRR N)	Redox Dark						Dark Surface ((TF12)
	Oark Surface (A11)	Depleted Da		-			Other (Explai	n in Remarks)	
Thick Dark Surfac		Redox Depre							
Sandy Mucky Min MLRA 147, 148		Iron-Mangan MLRA 13		s (F12) (LI	KK N,				
Sandy Gleyed Ma		Umbric Surfa		II RA 136	122)	³ In	dicators of hy	drophytic vege	tation and
Sandy Redox (S5		Piedmont Flo						ogy must be pr	
Stripped Matrix (S		Red Parent N						ed or problemat	
Restrictive Layer (if o	observed): Yes							-	
Type: Clay									
Depth (inches): <u>12</u>)					Hydric Soi	I Present?	Yes X	No
Remarks:									



Northeast

Soil Profile

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Hillsboro-Millbrook Park 138 kV	City/County: <u>Scioto</u>	Sampling	g Date:
Applicant/Owner: AEP			ing Point:
Investigator(s): MJA, JFW	Section, Township, Range: Ohio Si	JIVEYS VIRGINIA MILITARY DISTRI	ICT OH93Scioto LotNotNumbered
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex, none)	: Flat	Slope (%): <u>5</u>
Subregion (LRR or MLRA): LRR N Lat: 38.93111	Long:	-83.10469	Datum: WGS 84
Soil Map Unit Name: Lah1D1: Latham silt loam, 15 to 25 percent s	slopes	_ NWI classification: <u>N/A</u>	۹
Are climatic / hydrologic conditions on the site typical for this time c	of year? Yes X No (If r	no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significa	intly disturbed? Are "Normal Ci	rcumstances" present?	Yes X No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed, exp	lain any answers in Rema	arks.)

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 <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland data point in occasionally mow	ed field, in powe	r line easement.			

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B1	4)
High Water Table (A2) Hydrogen Sulfide Odor	(C1) Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres	on Living Roots (C3) 🔲 Moss Trim Lines (B16)
Water Marks (B1)	ron (C4)
Sediment Deposits (B2)	n Tilled Soils (C6) 🛛 🔛 Crayfish Burrows (C8)
Drift Deposits (B3)) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Dther (Explain in Rema	rks) 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 X Depth (inches):	_
Water Table Present? Yes <u>No X</u> Depth (inches):	_
Saturation Present? Yes <u>No X</u> Depth (inches):	Wetland Hydrology Present? Yes NoX
(includes capillary fringe)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
(includes capillary fringe)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	

Sampling Point: U-MJA-121520-01

		Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 1			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2 3					Total Number of Dominant Species Across All Strata: ² (B)
4 5					Percent of Dominant Species
6					That Are OBL, FACW, or FAC: (A/B)
			= Total Cov		Prevalence Index worksheet:
	50% of total cover: 0		total cover:	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:		2070 01			OBL species x 1 =
1	,				FACW species x 2 = 0
2					FAC species $0 \times 3 = 0$
3					FACU species $100 \times 4 = 400$
4					UPL species $0 \times 5 = 0$
5					Column Totals: <u>100</u> (A) <u>400</u> (B)
6					Prevalence Index = B/A =4.00
			= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: 0	20% of	total cover:	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 ¹
2					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
4					
5					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
			= Total Cov		Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in height and 3 in.
1. Andropogon virginicus				FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Polystichum acrostichoides		10		FACU	Sapling – Woody plants, excluding woody vines,
3. Rubus allegheniensis				FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4. Smilax glauca		10	<u> N </u>	FACU	
5 6					Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					woody vine – All woody vines, regardless of height.
		100 =	= Total Cov	er	
	50% of total cover: <u>50</u>	20% of	total cover:	20	
Woody Vine Stratum (Plot size	:30')				
1					
2					
3					
4					
5					Hydrophytic
			= Total Cov	er	Vegetation
	50% of total cover: 0	20% of	total cover:	0	Present? Yes <u>No X</u>
Remarks: (Include photo numb			Mowed		

SOI	_
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Profile Desc	cription: (Describe t	o the depth	needed to docun	nent the ir	ndicator	or confirm	n the absend	e of indicators.)
Depth	Matrix		Redox	K Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 📕 18	10YR 5/4	98	7.5YR 5/6	2	С	М	Silty clay loam	
	·							
							-	
			Poducod Matrix MS	-Mookod	Sand Cr		² Location:	– – – – – – – – – – – – – – – – – – –
	oncentration, D=Depl	etion, Rivi=F	Reduced Matrix, ME	s=iviasked	Sand Gra	ains.		cators for Problematic Hydric Soils ³ :
Hydric Soil				(07)				-
			Dark Surface		(66)			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				, 148) 🔟	Coast Prairie Redox (A16)
_	istic (A3)		Thin Dark Su	. ,	•	47, 148)	_	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		-2)			Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat	. ,			_	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre	-				
	/lucky Mineral (S1) (L	RR N,	🔲 Iron-Mangane		es (F12) (I	LRR N,		
	A 147, 148)		MLRA 130					
Sandy C	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) (I	MLRA 13	6, 122)	³ lr	ndicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain Sc	oils (F19)	(MLRA 14	48) v	vetland hydrology must be present,
C Stripped	l Matrix (S6)		Red Parent M	laterial (F2	21) (MLR	A 127, 147	7) u	nless disturbed or problematic.
Restrictive	Layer (if observed):	No						
Туре:								
Depth (in	ches):						Hydric Sc	il Present? Yes No _ X
Remarks:								
Nemarks.								



Soil Profile

West

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Hillsboro to Millbrook Park	City/County:	Highland	2)	Sampling Date:	12/10/2020		
Applicant/Owner:	AEP		M	State:	ОН		DP-BAO-121020-01
Investigator(s):	40		Section, Township	o, Range: Ohio Surveys	VIRGINIA M	ILITARY DISTRICT C	H93Highland Lot 2511
		tc.): Floodplain; Terrac	e Local r	elief (concave, conv	ex, none):	Flat	
Slope (%):0			Long:	-83.	652279	Datum:	WGS 84
Soil Map Unit Name	: Sn: Sloa	an silt Ioam		NV	VI classific	ation:	PSS1A
Are climatic / hydro	logic condit	tions on the site typical f	for this time of year? Yes X	No (If no, e	plain in R	emarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed?	Are "Normal Circum	stances" p	present? Yes _	XNo
Are Vegetation	, Soil	, or Hydrology	naturally problematic?	(If needed, explain a	iny answe	rs in Remarks.)	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

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

Remarks:

Upland area located adjacent to Stream HM-004. Area is raised and slightly sloping away from stream. Vegetation dominated by black walnut within non-hydric soils

VEGETATION - Use scientific names of plants.

	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:) 1. Juglans nigra	<u>% Cover</u> 40	Species? Y	<u>Status</u> FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (/	A)
2 3				Total Number of Dominant Species Across All Strata:4 (I	B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC:50 (/	A/B)
Sapling/Shrub Stratum (Plot size: 15')	40	= Total Cov	er	Prevalence Index worksheet:	
1 Juglans nigra	10	Y	FACU	Total % Cover of: Multiply by:	
2				$\frac{1}{OBL \text{ species } 0} \frac{1}{x + 1} = 0$	
				FACW species $50 \times 2 = 100$	
3			7	FAC species $30 \times 3 = 90$	
4				FACU species $50 \times 4 = 200$	
5		= Total Cov		UPL species 0 x 5 = 0	
Herb Stratum (Plot size:5')		- 10181 000	er		(B)
1. Equisetum hyemale	40	Y	FACW		(6)
2. Bidens frondosa	10	N	FACW	Prevalence Index = B/A =3.0	
3. Microstegium vimineum	30	Y	FAC	Hydrophytic Vegetation Indicators:	
4				1 - Rapid Test for Hydrophytic Vegetation	
5				2 - Dominance Test is >50%	
6				X 3 - Prevalence Index is ≤3.0 ¹	
7				4 - Morphological Adaptations ¹ (Provide suppo	orting
				data in Remarks or on a separate sheet)	J
8		·)		Problematic Hydrophytic Vegetation ¹ (Explain)	
9					
10	80			¹ Indicators of hydric soil and wetland hydrology mus	st
Woody Vine Stratum (Plot size:)		= Total Cov	er	be present, unless disturbed or problematic.	,
1				Hydrophytic	
2		-		Hydrophytic Vegetation	
£	0	= Total Cov	er	Present? Yes X No	
Remarks: (Include photo numbers here or on a separate	sheet.)				

SOIL

Depth	Matrix		needed to document the indicator or c Redox Features		
(inches)	Color (moist)		<u>Color (moist) % Type¹ L</u>	.oc ² Texture	Remarks
0 - 18	10YR 4/4	100		silt loam	
-					
·		<u>- 10 </u>			
·					
- -					
		10- <u>1</u>			
		<u> 1997 - 19</u>	71 <u>67 - 10</u> 17 - 1017	41 - <u>11</u>	<u> </u>
se 4	<u>.</u>				
¹ Type: C=Cor	ncentration, D=Dep	pletion, RM=R	educed Matrix, MS=Masked Sand Grains	. ² Locat	tion: PL=Pore Lining, M=Matrix.
Hydric Soil In	dicators:		_	Indicate	ors for Problematic Hydric Soils ³ :
Histosol (/	A1)		Sandy Gleyed Matrix (S4)	Coa	ast Prairie Redox (A16)
Histic Epip	oedon (A2)		Sandy Redox (S5)	Dar	rk Surface (S7)
Black Hist	tic (A3)		Stripped Matrix (S6)	L Iror	n-Manganese Masses (F12)
Hydrogen	Sulfide (A4)		Loamy Mucky Mineral (F1)	Ver	y Shallow Dark Surface (TF12)
Stratified I	Layers (A5)		Loamy Gleyed Matrix (F2)	Oth	ner (Explain in Remarks)
2 cm Muc			Depleted Matrix (F3)		
	Below Dark Surfac	e (A11)	Redox Dark Surface (F6)	0	
	k Surface (A12)		Depleted Dark Surface (F7)		tors of hydrophytic vegetation and
	icky Mineral (S1)		Redox Depressions (F8)		land hydrology must be present,
	ky Peat or Peat (S			unle	ess disturbed or problematic.
Restrictive La	ayer (if observed)	No			
Type:				Hudria S	Soil Present? Yes No
Depth (inch	nes):		0	Hydric S	Son Present? Tes No
Remarks:					
HYDROLOG	iΥ				
Wetland Hydr	ology Indicators:	:			
Primary Indica	tors (minimum of a	one is required	d; check all that apply)	Seco	ndary Indicators (minimum of two required)
Surface W			Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	er Table (A2)		Aquatic Fauna (B13)		Drainage Patterns (B10)
Saturation			True Aquatic Plants (B14)		Dry-Season Water Table (C2)
Water Ma			Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
 Statistics and statistics 	Deposits (B2)		Oxidized Rhizospheres on Living	met at approximite 1	Saturation Visible on Aerial Imagery (C9)
				Sector Contraction Contraction	Stunted or Stressed Plants (D1)
Drift Depo			Presence of Reduced Iron (C4)		
	or Crust (B4)		Recent Iron Reduction in Tilled So		Geomorphic Position (D2)
Iron Depo			Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	n Visible on Aerial		Gauge or Well Data (D9)		
	Vegetated Concav	e Surface (B8) 🔟 Other (Explain in Remarks)		
Field Observa					
Surface Water			Depth (inches):		
Water Table P	resent?	'es No	X Depth (inches):		
Saturation Pre (includes capil		/es No	X Depth (inches):	Wetland Hydrol	logy Present? Yes NoX
		n gauge, moni	toring well, aerial photos, previous inspec	tions), if available:	
Remarks:					
	vith adjacent strea	ım however, ç	gently slopes away from stream bank		

General Site Photos

Upland HM-087



South

Soil Profile

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site:Hillsboro-Millbrook Park 138 kV	City/County:	Highland		Sampling Date:	12/09/2020
Applicant/Owner: _AEP	19) 92 ¹ .5	State:	ОН		U-SAH-092419-01b
Investigator(s):BAO	Section, Township,	Range: Ohio Surveys	VIRGINIA M	ILITARY DISTRICT OF	H93Highland Lot 2769
Landform (hillslope, terrace, etc.): Swale	Local rel	lief (concave, conve	ex, none):	Concave	
Slope (%): 0 Lat: 39.12163	Long:	-83	.55464	Datum:	WGS 84
Soil Map Unit Name: RpC2: Rossmoyne silt loam, 6 to 12 percent s	lopes, eroded	NW	/I classific	ation:	N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes X No	o (If no, ex	plain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? A	re "Normal Circums	stances" p	resent? Yes	XNo
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (I	f needed, explain a	ny answei	rs in Remarks.)	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes Yes	No NoX NoX	Is the Sampled Area within a Wetland?	Yes	NoX
Remarks:			46		

Upland swale on slope located within agricultural field.

VEGETATION - Use scientific names of plants.

30'	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	537
1				That Are OBL, FACW, or FAC: (A	4)
2				Total Number of Dominant	
3				Species Across All Strata:1 (B	3)
4				Percent of Dominant Species	
5					VB)
Secling/Ohmb Obstance (Distring)		= Total Cov	er	Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size:)					
1				Total % Cover of: Multiply by:	
2			<u> </u>		
3.			.		
4				PAC species $x_3 = 0$	
5				FACU species x 4 =160	
5'		= Total Cov	er	UPL species x 5 =0	
Herb Stratum (Plot size:) 1 Juncus pylaei	5	Ν	OBL	Column Totals:(A)285((B)
2. Cirsium discolor		 N	FACU	Prevalence Index = B/A =2.71	
3. Asclepias syriaca	20	 N	FACU		
				Hydrophytic Vegetation Indicators:	
4. Elymus virginicus	60		FACW	1 - Rapid Test for Hydrophytic Vegetation	
5				$\frac{X}{X}$ 2 - Dominance Test is >50%	
6				X 3 - Prevalence Index is ≤3.0 ¹	
7				4 - Morphological Adaptations ¹ (Provide suppor data in Remarks or on a separate sheet)	ting
8			<u> </u>		
9			<u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)	
10				1	
30'	105	= Total Cov	er	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	st
Woody Vine Stratum (Plot size:)					
1				Hydrophytic	
2				Vegetation Present? Yes X No	
	0	= Total Cov	er	Present? fes No	
Remarks: (Include photo numbers here or on a separate	sheet.)				

SOIL

Depth	ription: (Describe Matrix	e to the depth		ment the in ox Features		or confirm	n the absence of	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	_Type ¹	Loc ²	Texture	Remark	s	
0 - 16	10YR 4/3	90	7.5YR 4/6	10	С	М	Silty loam			
	<u></u>							9 .		
								8		
-								-		
-							1			1.00
-	2						- 5			-76
					<u> </u>					
	ncentration, D=De	pletion, RM=R	Reduced Matrix, Ma	S=Masked	Sand Gra	ins.		PL=Pore Lining, M=I		
Hydric Soil I				0				or Problematic Hyd	ic Solis :	
Histosol				Gleyed Mat Redox (S5)				Prairie Redox (A16)		
Black His	ipedon (A2) stic (A3)		and the second sec	d Matrix (S				urface (S7) Inganese Masses (F1	2)	
	n Sulfide (A4)			Mucky Min	CPUMP			allow Dark Surface (
	Layers (A5)			Gleyed Ma				Explain in Remarks)	,	
2 cm Mu	ck (A10)		Deplete	d Matrix (F	3)					
Depleted	Below Dark Surface	ce (A11)	Redox	Dark Surfa	ce (F6)		200			
	rk Surface (A12)		the second se	d Dark Sur				of hydrophytic vegeta		
	ucky Mineral (S1)		Redox I	Depression	ns (F8)			hydrology must be pr		
	cky Peat or Peat (S	- tu					unless o	disturbed or problema	tic.	
122	ayer (if observed).): No								
Type:							Hydric Soil F	Present? Yes	No_X	
Depth (inc	:hes):		(1)							
Remarks:										
HYDROLO	GY									
Wetland Hyd	Irology Indicators	:								
Primary Indic	ators (minimum of	one is require	d; check all that ap	oply)			Secondar	y Indicators (minimun	n of two require	ed)
1 million and a second second	Water (A1)			ined Leave	es (B9)		Surfa	ice Soil Cracks (B6)		
	ter Table (A2)		Aquatic Fa	auna (B13)	, ,		Drain	age Patterns (B10)		
Saturatio				atic Plants (Season Water Table (C2)	
Water Ma	arks (B1)		Hydrogen	Sulfide Od	lor (C1)		Cray	fish Burrows (C8)		
Sedimen	t Deposits (B2)		Oxidized F	Rhizospher	es on Livi	ng Roots	(C3) 🔲 Satur	ation Visible on Aeria	I Imagery (C9)	
Drift Dep	osits (B3)		Presence	of Reduced	d Iron (C4)	Stunt	ed or Stressed Plants	s (D1)	
Algal Ma	t or Crust (B4)		Recent Irc	n Reductio	n in Tilleo	Soils (Ce	6) 🗌 Geor	norphic Position (D2)		
Iron Dep	osits (B5)		Thin Muck	Surface (0	C7)		🖌 FAC-	Neutral Test (D5)		
Inundatio	on Visible on Aerial	Imagery (B7)	Gauge or	Well Data	(D9)					
Sparsely	Vegetated Concav	ve Surface (B8	3) 🔟 Other (Exp	plain in Rer	marks)					
Field Observ	vations:									
Surface Wate	er Present?	Yes No	Depth (in	ches):						
Water Table	Present?	Yes No	Depth (in	ches):						
Saturation Pr			Depth (in				and Hydrology	Present? Yes	No X	
(includes cap	illary fringe)	87 - 53		1.0502			0.00 - 879 	8	- 80 - 10	
Describe Rec	orded Data (stream	n gauge, mon	itoring well, aerial	photos, pre	evious ins	pections),	if available:			
Remarks:										





Soil Profile

East

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Hillsboro-Millbrook Park 138 kV	City/County:	Highland	_ Sampling Date:	12/10/2020
Applicant/Owner: AEP		State: OH		U-SAH-092419-01c
Investigator(s):BAO	_ Section, Township,	Range: Ohio Surveys VIRGINIA	MILITARY DISTRICT O	H93Highland Lot 2769
Landform (hillslope, terrace, etc.): hillslope	Local re	lief (concave, convex, none): <u>Concave</u>	
Slope (%):1 Lat:39.12093	_ Long:	-83.55241	Datum:	WGS 84
Soil Map Unit Name: RpC2: Rossmoyne silt loam, 6 to 12 percent s	slopes, eroded	NWI classi	ication:	N/A
Are climatic / hydrologic conditions on the site typical for this time of ye	/ear? Yes X N	o (If no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? A	re "Normal Circumstances'	present? Yes	X No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (I	If needed, explain any answ	vers in Remarks.)	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No X Yes X No	Is the Sampled Area within a Wetland?	Yes	. No <u>X</u>
Remarks:				
Lipland swale on slope located within	agricultural field			

VEGETATION - Use scientific names of plants.

30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)
15'	0	= Total Cov	/er	
Sapling/Shrub Stratum (Plot size:)		rotar oor		Prevalence Index worksheet:
1				Total % Cover of:Multiply by:
2				OBL species 0 x 1 = 0
3.				FACW species 80 x 2 = 160
				FAC species $5 \times 3 = 15$
4				FACU species $10 \times 4 = 40$
5				UPL species $5 \times 5 = 25$
Herb Stratum (Plot size:5')		= Total Cov	ver	
1. Elymus virginicus	80	Y	FACW	Column Totals: <u>100</u> (A) <u>240</u> (B)
2. Asclepias syriaca	5	N	FACU	Prevalence Index = B/A =2.40
3. Solidago altissima	5	N	FACU	Hydrophytic Vegetation Indicators:
4. Daucus carota	5		UPL	1 - Rapid Test for Hydrophytic Vegetation
 <u>5</u> Apocynum cannabinum 	5		FAC	$\frac{1}{X}$ 2 - Dominance Test is >50%
6				$\frac{X}{2}$ 3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8				
9				Problematic Hydrophytic Vegetation ¹ (Explain)
10				
	100	= Total Cov	ver	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				be present, unless disturbed of problematic.
1				Hydrophytic
2				Vegetation
	•	= Total Cov	ver	Present? Yes X No
Remarks: (Include photo numbers here or on a separate s			94493B)	1

SOIL

Depth	ription: (Describe Matrix	to the depth		x Features		or contin	n the absence o	or indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0 - 18	10YR 5/4	80	10YR 6/8	20	С	M	Silty clay loam	
-								
-								
_								· · · · · · · · · · · · · · · · · · ·
	-	·						
	<u></u>	<u> </u>						<u>.</u>
-	· · · · · · · · · · · · · · · · · · ·							
¹ Type: C=Co	ncentration, D=Dep	letion, RM=R	educed Matrix, Ma	S=Masked	Sand Gra	ins.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I								or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy (Gleyed Mat	trix (S4)		Coast P	Prairie Redox (A16)
	ipedon (A2)			Redox (S5)				Inface (S7)
Black His				d Matrix (S				nganese Masses (F12)
	n Sulfide (A4)			Mucky Min	,			allow Dark Surface (TF12)
Stratified	Layers (A5)		Loamy	Gleyed Ma	trix (F2)			Explain in Remarks)
2 cm Mu	ck (A10)		Deplete	d Matrix (F	3)			
Depleted	Below Dark Surfac	e (A11)	Redox	Dark Surfa	ce (F6)			
Thick Da	rk Surface (A12)		Deplete	d Dark Sur	face (F7)		³ Indicators of	of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Redox I	Depression	is (F8)		wetland	hydrology must be present,
5 cm Mu	cky Peat or Peat (S	3)					unless o	disturbed or problematic.
Restrictive L	ayer (if observed):	No						
Туре:								
Depth (inc	hes):						Hydric Soil F	Present? Yes No
Remarks:								
HYDROLOG	GY							
Wetland Hyd	rology Indicators:							
Primary Indic	ators (minimum of o	ne is required	: check all that ap	oply)			Secondar	y Indicators (minimum of two required)
Surface \	Nater (A1)		Water-Sta	ined Leave	es (B9)		Surfa	ce Soil Cracks (B6)
High Wat	ter Table (A2)		Aquatic Fa	auna (B13)			🗸 Drain	age Patterns (B10)
Saturatio	. ,			tic Plants (Season Water Table (C2)
Water Ma				Sulfide Od				fish Burrows (C8)
	t Deposits (B2)			Rhizospher		na Roots		ration Visible on Aerial Imagery (C9)
	osits (B3)			of Reduce		•		ed or Stressed Plants (D1)
	t or Crust (B4)			n Reductio				norphic Position (D2)
Iron Dep				Surface (Neutral Test (D5)
<u> </u>	n Visible on Aerial I	mageny (B7)		Well Data				
	Vegetated Concave	,		plain in Rer				
Field Observ	•	e Sunace (Bo			narks)	-		
			X D II (
Surface Wate			X Depth (in					
Water Table I	Present? Y	es No	X Depth (in	ches):	0			×
Saturation Pr		es X No	Depth (in	ches):	0	_ Wetl	and Hydrology	Present? Yes X No
(includes cap	illary fringe) orded Data (stream	daude moni	toring well aerial	nhotos nre			if available:	
Describe Nec	olded Data (Stream	gauge, mom	toring well, aeriar	priotos, pre		Jections),	li avaliable.	
Remarks:								
saturation wa	s at surface							





North

Soil Profile

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Hillsboro-Millbrook Park 138 kV	City/County: Highland	Sampl	ling Date: 12	2/18/2020
Applicant/Owner: AEP				DP-MJA-100319-01
Investigator(s): MJA, JFW	Section, Township, Range: <u>C</u>	Dhio Surveys VIRGINIA MILITARY DIS	TRICT OH96High	and Lot 4024, 5019
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, no	one): Flat	Slope	(%): 25
Subregion (LRR or MLRA): LRR Lat: 39.07099	Long:	-83.42703	Datum:	WGS 84
Soil Map Unit Name: OtD3: Opequon clay, 6 to 18 percent slopes,	severely eroded	NWI classification:	PUBGh	
Are climatic / hydrologic conditions on the site typical for this time c	f year? Yes X No	(If no, explain in Remarks	.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Norma	al Circumstances" present?	? Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	v problematic? (If needed,	explain any answers in Re	emarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
NWI check. No wetland features prese	nt. Active horse	e pasture.			

Wetland Hydrology Indicate	ors:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is required; c	Surface Soil Cracks (B6)	
Surface Water (A1)		Sparsely Vegetated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)		Oxidized Rhizospheres on 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 S	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 Aer	ial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B	9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No	X Depth (inches):	
Weten Telele Due e ento		V B U C L V	
Water Table Present?	Yes No	X Depth (inches):	
Water Table Present? Saturation Present? (includes capillary fringe)		 Depth (inches): Depth (inches): 	Wetland Hydrology Present? Yes NoX
Saturation Present? (includes capillary fringe)	Yes No		
Saturation Present? (includes capillary fringe)	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No	X Depth (inches):	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes No	X Depth (inches):	

Sampling Point: DP-MJA-100319-01

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')			Species?		Number of Dominant Species
1					That Are OBL, FACW, or FAC: 0 (A)
2					
3					Total Number of Dominant Species Across All Strata: 1 (B)
					Species Across All Strata: (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: (A/B)
6					Prevalence Index worksheet:
			= Total Cov	er	
50% of total co	ver: 0	20% of	total cover:	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:15'					OBL species x 1 =
· · · · · · · · · · · · · · · · · · ·	-/				FACW species0 x 2 =0
1					FAC species x 3 = 0
2					FACU species <u>120</u> x 4 = <u>480</u>
3					UPL species10 x 5 =50
4					Column Totals: 130 (A) 530 (B)
5					
6					Prevalence Index = B/A =4.08
			= Total Cov		Hydrophytic Vegetation Indicators:
					1 - Rapid Test for Hydrophytic Vegetation
50% of total co		20% of	total cover:	0	
Shrub Stratum (Plot size:15'					2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 ¹
2					4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
			= Total Cov	er	Definitions of Five Vegetation Strata:
50% of total co	ver: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 5')					approximately 20 ft (6 m) or more in height and 3 in.
1. Schedonorus arundinaceus		70	Y	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Andropogon virginicus		00	N	FACU	
		10		UPL	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
					than 3 in. (7.6 cm) DBH.
4. Trifolium repens		10	<u>N</u>	FACU	
5Rosa multiflora		20	<u> N </u>	FACU	Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
7					Herb – All herbaceous (non-woody) plants, including
8					herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3 ft (1 m) in height.
10					Woody vine – All woody vines, regardless of height.
11					
		130	= Total Cov	er	
50% of total co	ver: 65	20% of	total cover:	26	
Woody Vine Stratum (Plot size: 30')				
1					
2					
3					
4					
5					Hydrophytic
		0	= Total Cov	er	Vegetation
50% of total co	ver: 0	20% of	total cover:	0	Present? Yes NoX
Remarks: (Include photo numbers here or on a	separate s	neet.)			

Profile Desc	ription: (Describe t	o the depth r	needed to docum	ent the ir	ndicator o	or confirm	n the absenc	e of indicato	ers.)	
Depth	Matrix			Features	; 1					
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 📕 8	10YR 4/3	100					Clay loam	Some gra	avel	
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Re	duced Matrix, MS	=Masked	Sand Gra	ins.	² Location:	PL=Pore Linir	ng, M=Matrix.	
Hydric Soil	ndicators:						Indi	cators for Pr	oblematic Hy	dric Soils³:
Histosol	(A1)	[Dark Surface	(S7)				2 cm Muck (A	A10) (MLRA 1 4	¥7)
	oipedon (A2)	[Polyvalue Bel				148) 🔲		Redox (A16)	
Black Hi		[Thin Dark Su			47, 148)	_	(MLRA 14		
	n Sulfide (A4)	ļ	Loamy Gleye		-2)				odplain Soils (F19)
	Layers (A5)	L	Depleted Mat		C)			(MLRA 13		(TE40)
	ck (A10) (LRR N) I Below Dark Surface	. (A11)	Redox Dark S Depleted Dar						Dark Surface n in Remarks)	
	ark Surface (A12)	(,,,,,) <u> </u>	Redox Depre							
	lucky Mineral (S1) (L	RRN.	Iron-Mangane			.RR N.				
	147, 148)				· / ·					
	leyed Matrix (S4)	ļ	🔲 Umbric Surfa	ce (F13) (I	MLRA 13	6, 122)	³ lr	idicators of hy	/drophytic veg	etation and
Sandy R	edox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 14	18) v	vetland hydrol	logy must be p	resent,
	Matrix (S6)		Red Parent M	laterial (F2	21) (MLR /	A 127, 147	7) u	nless disturbe	ed or problema	itic.
	_ayer (if observed):	Yes								
Type: Gr			_							
Depth (ind	ches): <u>8</u>		_				Hydric So	il Present?	Yes	No <u>X</u>
Remarks:										



North

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Hillsboro-Millbrook Park 138 kV	City/County: Adams	Sampli	ng Date: 12	2/18/2020
Applicant/Owner: AEP				DP-MJA-121820-01
Investigator(s): MJA, JFW	Section, Township, Range:	Ohio Surveys VIRGINIA MILITARY	DISTRICT OHS	3Adams Lot 7372
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex,	none): <u>Convex</u>	Slope	e (%): <u>30</u>
Subregion (LRR or MLRA): LRR N Lat: 39.05075	Long:	-83.37290	Datum:	WGS 84
Soil Map Unit Name: OpD2: Opequon silty clay loam, 15 to 25 per	cent slopes, eroded	NWI classification: F	PEM1A	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	_ (If no, explain in Remarks.	.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Norr	mal Circumstances" present?	Yes X	No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If neede	d, explain any answers in Re	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 <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
NWI check. No wetland features prese	nt. Steep hillside	9.			

Wetland Hydrology Indicato	ors:			<u>.</u>	Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is red	quired; ch	eck all that apply)	[Surface Soil Cracks (B6)
Surface Water (A1)		Γ	True Aquatic Plants (B14)	ļ	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		Ē	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)
Saturation (A3)		Γ	Oxidized Rhizospheres on Living	Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1)		Γ	Presence of Reduced Iron (C4)		Dry-Season Water Table (C2)
Sediment Deposits (B2)		Ľ	Recent Iron Reduction in Tilled Sc	oils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)		Ľ	Thin Muck Surface (C7)	[Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		<u>[</u>	Other (Explain in Remarks)	[Stunted or Stressed Plants (D1)
Iron Deposits (B5)				[Geomorphic Position (D2)
Inundation Visible on Aer	ial Imagery	(B7)		[Shallow Aquitard (D3)
Water-Stained Leaves (B	9)			[Microtopographic Relief (D4)
🔲 Aquatic Fauna (B13)				[FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	No X	Depth (inches):		
Water Table Present?	Yes	_ No _ X	Depth (inches):		
Saturation Present?			Depth (inches): _ Depth (inches):	Wetland Hy	ydrology Present? Yes NoX
Saturation Present? (includes capillary fringe)	Yes	_ No _ X		_	
Saturation Present? (includes capillary fringe)	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe)	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes	_ No _ X	Depth (inches):	_	
Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	Yes	_ No _ X	Depth (inches):	_	

Sampling Point: DP-MJA-121820-01

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30')	% Cover	Species?	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC: 0 (A)
2					Total Number of Dominant
3					Species Across All Strata: 5 (B)
4					(')
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)
6					
			= Total Cov		Prevalence Index worksheet:
					Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species0 x 1 =0
Sapling Stratum (Plot size:	15')				FACW species0 x 2 =0
1					FAC species 0 x 3 = 0
2					FACU species $180 \times 4 = 720$
3					$\begin{array}{c} \hline PACO \text{ species} \\ \hline UPL \text{ species} \\ \hline 0 \\ \hline x 5 = 0 \\ \hline \end{array}$
4					
5					Column Totals: <u>180</u> (A) <u>720</u> (B)
					Prevalence Index = B/A = 4.00
6			= Total Cov		
					Hydrophytic Vegetation Indicators:
	50% of total cover: 23	20% of	total cover:	9	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)				2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 ¹
2					4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
					¹ Indicators of hydric soil and wetland hydrology must
6			= Total Cov		be present, unless disturbed or problematic.
					Definitions of Five Vegetation Strata:
	50% of total cover: 0	20% of	total cover:	0	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in height and 3 in.
1. Dipsacus fullonum		15	<u> N </u>	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
2. Sorghastrum nutans		70	Y	FACU	Sapling – Woody plants, excluding woody vines,
3. Solidago canadensis		35		FACU	approximately 20 ft (6 m) or more in height and less
4. Andropogon virginicus		15	N	FACU	than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
3					approximately 3 to 20 ft (1 to 6 m) in height.
6					
7			·		Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					
11					Woody vine – All woody vines, regardless of height.
			= Total Cov	er	
	50% of total cover: 68	20% of	total cover:	27	
Woody Vine Stratum (Plot siz		20 /0 01			
1					
2					
3					
4					
5					Hydrophytic
		0	= Total Cov	er	Vegetation
	50% of total cover: 0	20% of	total cover:	0	Present? Yes No X
Bomarka: /halud			10101 00101.		
Remarks: (Include photo num	ibers here or on a separate s	meet.)			

Profile Description: (Describe to the	e depth needed to docu	ment the indicator	or confirm t	he absence of	f indicators.)
Depth Matrix		ox Features			
	% Color (moist)	<u>%</u> <u>Type</u> ¹	Loc ²	Texture	Remarks
0 12 10YR 3/3 1	00			Loam	
		· · · · · · · · · · · · · · · · · · ·			
		·			
		. <u> </u>			
¹ Type: C=Concentration, D=Depletion		S=Masked Sand G	raine 2	=	Pore Lining, M=Matrix.
Hydric Soil Indicators:		S-IVIASKEU Saliu G	1 an 15.		ors for Problematic Hydric Soils ³ :
Histosol (A1)	🔲 Dark Surface	0 (97)			m Muck (A10) (MLRA 147)
Histic Epipedon (A2)		e (S7) elow Surface (S8) (MIRA 147 1		ast Prairie Redox (A16)
Black Histic (A3)		urface (S9) (MLRA			MLRA 147, 148)
Hydrogen Sulfide (A4)		ed Matrix (F2)	,,		dmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Ma				MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark	Surface (F6)			y Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A	11) 📃 Depleted Da	ark Surface (F7)		🔲 Oth	er (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depre	essions (F8)			
Sandy Mucky Mineral (S1) (LRR		nese Masses (F12)	(LRR N,		
MLRA 147, 148)	MLRA 13			3	
Sandy Gleyed Matrix (S4)		ace (F13) (MLRA 1			ators of hydrophytic vegetation and
Sandy Redox (S5)		oodplain Soils (F19			and hydrology must be present,
Stripped Matrix (S6) Restrictive Layer (if observed): Yes		Material (F21) (MLI	KA 127, 147)	unies	ss disturbed or problematic.
Type: Gravel	6				
Depth (inches): <u>12</u>				Hydric Soil P	resent? Yes <u>No X</u>
Remarks:					



East

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Hillsboro-Millbrook Park 138 kV	City/County: <u>Adams</u>	S	ampling Date: <u>1</u>	2/18/2020
Applicant/Owner: AEP		State:OH	Sampling Point	DP-MJA-100219-01
Investigator(s): MJA, JFW	Section, Township, Range: <u>0</u>	hio Surveys VIRGINIA MILI	TARY DISTRICT OH	93Adams Lot 7372
Landform (hillslope, terrace, etc.): Hillside	_ Local relief (concave, convex, no	ne): Convex	Slope	e (%): <u>30</u>
Subregion (LRR or MLRA): Lat: 39.04624	Long:	-83.363	395 Datum:	WGS 84
Soil Map Unit Name: OpD2: Opequon silty clay loam, 15 to 25 pe		NWI classificati	on: PEM1A	
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes X No	(If no, explain in Rem	narks.)	
Are Vegetation, Soil, or Hydrology signific	antly disturbed? Are "Norma	I Circumstances" pre	sent? Yes X	No
Are Vegetation _, Soil _, or Hydrology natural	ly problematic? (If needed,	explain any answers	in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
NWI feature check. No wetland feature	es present.				
HYDROLOGY					

Wetland Hydrology Indicato	rs:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is 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 on 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 S	oils (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 Aer	ial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B	9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No	X Depth (inches):	
Water Table Present?	Yes No	X Depth (inches):	
		X Dopth (inchos)	Watland Undralagy Dracast2 Vac No X
Saturation Present? (includes capillary fringe)	Yes NO	X Depth (inches):	Wetland Hydrology Present? Yes NoX
(includes capillary fringe)		ng well, aerial photos, previous inspe	
(includes capillary fringe)			
(includes capillary fringe)			
(includes capillary fringe) Describe Recorded Data (stre			
(includes capillary fringe) Describe Recorded Data (stre			
(includes capillary fringe) Describe Recorded Data (stre			
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Sampling Point: DP-MJA-100219-01

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. Celtis occidentalis		25	Υ	FACU	That Are OBL, FACW, or FAC: (A)
2					
3					Total Number of Dominant Species Across All Strata: 10 (B)
					Species Across All Strata: 10 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 20.00 (A/B)
6					Prevalence Index worksheet:
		25	= Total Cov	er	
	50% of total cover: <u>13</u>	20% of	total cover-	5	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:	4 - 1	2070 01			OBL species x 1 = 0
	.,				FACW species x 2 =60
1					FAC species <u>30</u> x 3 = <u>90</u>
2					FACU species 175 x 4 = 700
3					UPL species 0 x 5 = 0
4					Column Totals: 235 (A) 850 (B)
5					$\frac{1}{200} (A) = \frac{1}{200} (B)$
6					Prevalence Index = B/A = 3.62
			= Total Cov		Hydrophytic Vegetation Indicators:
	50% of total cover: 5	20% of	total cover:	2	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%
1. Rubus occidentalis		15	N	FACU	$_$ 3 - Prevalence Index is $\leq 3.0^1$
2. Rosa multiflora		30	Y	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Smilax glauca		10	N	FACU	data in Remarks or on a separate sheet)
Lonicoro mogokii		40	Y	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
··				FACU	
5					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
		95	= Total Cov	er	Definitions of Five Vegetation Strata:
	50% of total cover: <u>48</u>	20% of	total cover	19	
Herb Stratum (Plot size:					Tree – Woody plants, excluding woody vines,
		00	V	FAC	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1 Microstegium vimineum			<u> </u>	FAC	
2. Elymus virginicus			<u>N</u>	FACW	Sapling – Woody plants, excluding woody vines,
3. Schedonorus arundinaceus		40	Y	FACU	approximately 20 ft (6 m) or more in height and less
4. Allium vineale		15	<u>N</u>	FACU	than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines,
6					approximately 3 to 20 ft (1 to 6 m) in height.
					Here All bookssoons (non-model) plants including
7					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8					plants, except woody vines, less than approximately 3
9					ft (1 m) in height.
10					
11					Woody vine – All woody vines, regardless of height.
		105	= Total Cov	er	
	500/ 51 1 50				
	50% of total cover: 53	20% of	total cover:	21	
Woody Vine Stratum (Plot size	.:)				
1					
2					
3					
4					
5					Hydrophytic
		0	= Total Cov	er	Vegetation
	50% of total cover: 0	20% of	total cover:	0	Present? Yes <u>No X</u>
Remarks: (Include photo numb					

Profile Description: (Describe to the de	pth needed to document the indicator or confirm	n the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) <u>%</u> Type ¹ Loc ²	Texture Remarks
0 — 18 10YR 3/2 100		Loam
_		
<u> </u>		
_		
¹ Type: C=Concentration, D=Depletion, RM	1=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
$\square Black Histic (A3)$	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
\square 2 cm Muck (A10) (LRR N)		Very Shallow Dark Surface (TF12)
	Redox Dark Surface (F6)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148)	MLRA 136)	3
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	³ Indicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 14	7) unless disturbed or problematic.
Restrictive Layer (if observed): No		
Туре:		
Depth (inches):		Hydric Soil Present? Yes NoX
Remarks:		,
Remarks.		



North

Upland HM-094 WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Hillsboro-Millbrook Park	City/County: Scioto	Sar	npling Date: 1	2/15/2020
Applicant/Owner: AEP		State: OH S	ampling Point:	W-MJA-121520-06
Investigator(s): MJA, JFW	Section, Township, Range: _	Ohio Surveys VIRGINIA MILITARY	DISTRICT OH93Scio	to Lot not numbered
Landform (hillslope, terrace, etc.): Outwash plain	Local relief (concave, convex, n	one): Concave	Slope	(%): <u>1</u>
Subregion (LRR or MLRA): LRR N Lat: 38.93656	Long:	-83.1126	2 Datum:	WGS 84
Soil Map Unit Name: Sk: Skidmore silt loam, occasionally flooded		NWI classificatior	n: R5UBH	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in Rema	rks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Norm	al Circumstances" prese	nt? Yes	NoX
Are Vegetation 🖌 _, Soil 🖌 _, or Hydrology 🖌 _ naturally	y problematic? (If needed	, explain any answers in	Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes YesX	No <u>X</u> No <u>X</u> No	Is the Sampled Area within a Wetland?	Yes	. No <u>X</u>
Remarks:					
Upland point taken in area recently inun present and abundant upland vegetation					

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; checl	k all that apply)	Surface Soil Cracks (B6)	
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)	
Saturation (A3)	Oxidized Rhizospheres on Living Ro	oots (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	s (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 X No	_ Depth (inches):3.00		
Water Table Present? Yes X No	_ Depth (inches):3.00		
Saturation Present? Yes X No	_ Depth (inches):0.00	Wetland Hydrology Present? Yes <u>X</u> No	_
(includes capillary fringe)		ana) if available.	
Describe Recorded Data (stream gauge, monitoring v	well, aeriai photos, previous inspectio	ons), if available:	
Remarks:			
Water appears to be coming from recently redirected s	stream tributary. Abundant water but	no hydric soils and abundant upland vegetation present.	

Sampling Point: W-MJA-121520-06

		Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 1			<u>Species?</u>		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3					Total Number of Dominant Species Across All Strata: ² (B)
4 5					Percent of Dominant Species
6					That Are OBL, FACW, or FAC:(A/B
			= Total Cov		Prevalence Index worksheet:
	50% of total cover: <u>0</u>	20% of	total cover	0	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:					OBL species x 1 = 70
1					FACW species 35 x 2 = 70
2					FAC species $60 \times 3 = 180$ FAC species $63 \times 4 = 252$
3					
4					UPL species $0 \times 5 = 0$
5					Column Totals: <u>158</u> (A) <u>502</u> (B)
6					Prevalence Index = B/A =3.17
		0	= Total Cov	er	Hydrophytic Vegetation Indicators:
	50% of total cover: <u>0</u>	20% of	total cover	0	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:	15')				2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 ¹
2					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3					Problematic Hydrophytic Vegetation ¹ (Explain)
4					
5					¹ Indicators of hydric soil and wetland hydrology must
6					be present, unless disturbed or problematic.
			= Total Cov		Definitions of Five Vegetation Strata:
	50% of total cover: <u>0</u>		= Total Cov		
Herb Stratum (Plot size:	5')	20% of	= Total Cov total cover	0	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. Schedonorus arundinaceus	5')	20% of	= Total Cov total cover: Y	0 FACU	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines,
1. Schedonorus arundinaceus 2. Arthraxon hispidus	5')	20% of 60 20	= Total Cov total cover Y N	FACU FAC	Definitions of Five Vegetation Strata:Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.(7.6 cm) or larger in diameter at breast height (DBH).Sapling – Woody plants, excluding woody vines,
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus 	5')	20% of <u>60</u> <u>20</u> 5	= Total Cov total cover <u>Y</u> <u>N</u>	FACU FAC FACW	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus Carex sp. 	5')	20% of 60 20 5 30	Total Cov total cover <u>Y</u> <u>N</u> <u>Y</u>	FACU FAC FACW FACW	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus Carex sp. Setaria pumila 	5')	20% of 60 20 5 30 15	Total Cov total cover N N Y N	FACU FAC FACW FACW FAC	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus Carex sp. Setaria pumila Rubus allegheniensis 	5')	20% of 60 20 5 30 15 3	Total Cov total cover N N Y N N	FACU FAC FACW FACW FAC FACU	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus Carex sp. Setaria pumila Rubus allegheniensis Panicum virgatum 	<u>5'</u>) 5	20% of 60 20 5 30 15 3 10	Total Cover total cover N N Y N N N N	FACU FAC FACW FACW FAC FACU FACU FAC	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus Carex sp. Setaria pumila Rubus allegheniensis Panicum virgatum Dichanthelium clandestinur 	<u>5'</u>) s	20% of 60 20 5 30 15 3 10 15	Total Cov total cover N N Y N N N N N	FACU FAC FACW FACW FAC FACU	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus Carex sp. Setaria pumila Rubus allegheniensis Panicum virgatum Dichanthelium clandestinur 	<u>5'</u>) s	20% of <u>60</u> 20 5 <u>30</u> 15 <u>3</u> 10 15 	Total Cov total cover N N Y N N N N N	FACU FAC FACW FACW FAC FACU FACU FAC	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus Carex sp. Setaria pumila Rubus allegheniensis Panicum virgatum Dichanthelium clandestinur 10	<u>5'</u>) s	20% of 60 20 5 30 15 3 10 15 	Total Cov total cover N N Y N N N N N	FACU FAC FACW FACW FAC FACU FACU FAC	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus Carex sp. Setaria pumila Rubus allegheniensis Panicum virgatum Dichanthelium clandestinur 	<u>5'</u>) s	20% of 60 20 5 30 15 3 10 15	Total Cover total cover N N Y N N N N N	0 FACU FAC FACW FACW FAC FAC FAC FAC FAC FAC FAC	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus Carex sp. Setaria pumila Rubus allegheniensis Panicum virgatum Dichanthelium clandestinur 10	<u>5'</u>) s	20% of 60 20 5 30 15 3 10 15 	Total Cover total cover N N N N N N Total Cover	FACU FACW FACW FACW FACU FACU FAC FAC FAC	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Schedonorus arundinaceus 2. Arthraxon hispidus 3. Juncus effusus 4. Carex sp. 5. Setaria pumila 6. Rubus allegheniensis 7. Panicum virgatum 8. Dichanthelium clandestinur 9	<u>5'</u>) 3 n 50% of total cover: <u>75</u>	20% of 60 20 5 30 15 3 10 15 	Total Cover total cover N N N N N N Total Cover	FACU FACW FACW FACW FACU FACU FAC FAC FAC	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
 Schedonorus arundinaceus Arthraxon hispidus Juncus effusus Carex sp. Setaria pumila Rubus allegheniensis Panicum virgatum Dichanthelium clandestinur 10	<u>5'</u>) <u>5</u> 50% of total cover: <u>75</u>	20% of 60 20 5 30 15 3 10 15 	Total Cover total cover N N N N N N Total Cover	FACU FACW FACW FACW FACU FACU FAC FAC FAC	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1. Schedonorus arundinaceus 2. Arthraxon hispidus 3. Juncus effusus 4. Carex sp. 5. Setaria pumila 6. Rubus allegheniensis 7. Panicum virgatum 8. Dichanthelium clandestinur 9. 10. 11. Woody Vine Stratum 1.	<u>5'</u>)	20% of 60 20 5 30 15 3 10 15 - 15 - 15 - 20% of	 Total Cover Y N Y N N N N N Total Cover Total Cover 	FACU FACW FACW FACW FACU FAC FAC FAC FAC FAC FAC	 Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Profile Desc	ription: (Describe to	o the depth ne	eded to docume	ent the in	dicator o	r confirm	m the absence of indicators.)	
Depth	Matrix		Redox	Features				
(inches)	Color (moist)	<u>%</u> C	olor (moist)	%	Type ¹	Loc ²	Remarks	_
0 📕 18	10YR 4/3	95	10YR 4/4	5	С	Μ	Silty clay loam	
Type: C=Cc Hydric Soil I	ncentration, D=Deple	etion, RM=Redu	uced Matrix, MS=	Masked S	Sand Grai	ins.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :	
Black His Hydroger Stratified 2 cm Mu Depleted Thick Da Sandy M MLRA Sandy G	ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) ck (A10) (LRR N) Below Dark Surface rk Surface (A12) ucky Mineral (S1) (LI 147, 148) leyed Matrix (S4)	Ē	 Dark Surface (\$ Polyvalue Belo Thin Dark Surfa Loamy Gleyed Depleted Matrix Redox Dark Su Depleted Dark Redox Depress Iron-Manganess MLRA 136) Umbric Surface 	w Surface ace (S9) (Matrix (F3) Irface (F6 Surface (sions (F8) se Masses e (F13) (N	MLRA 14 2) F7) s (F12) (L ILRA 136	17, 148) RR N, 5, 122)	(MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and	
= '	edox (S5) Matrix (S6)	Ļ	Piedmont Flood Red Parent Ma	•			, , , , , , , , , , , , , , , , , , , ,	
	ayer (if observed):					121, 141		
Type:								
Depth (inc	hes):						Hydric Soil Present? Yes NoX	
Demorker								

Remarks:

Inundation must be very recent since soils have not yet developed strong hydric features. Hydric soils expected to develop if wetland hydrology persists.





North

South







West



WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: _Hillsboro-Millbrook Park 138 kV	City/County: Scioto		Sampling Date:	12/09/2020
Applicant/Owner: AEP		State: OH		t:
Investigator(s): MJA, JFW	Section, Township, Range:	7 3N R 21W S 31		
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, ne	one): Flat	Slop	e (%): <u>1</u>
Subregion (LRR or MLRA): LRR N Lat: 38.86708	Long:	-83.00	0465 Datum	n: WGS 84
Soil Map Unit Name: No: Nolin silt loam, 0 to 3 percent slopes, oc	casionally flooded	NWI classifica	tion: <u>N/A</u>	
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X No	(If no, explain in Re	marks.)	
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Norma	al Circumstances" pr	esent? Yes	< No
Are Vegetation _, Soil, or Hydrology naturally	y problematic? (If needed,	explain any answers	in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes X	No <u>X</u> No <u>X</u> No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland data point for location with inun	dation visible on	aerial imagery. No	wetland features observed on	site.	

Wetland Hydrology Indicato	rs:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is required; o	check all that a	pply)		Surface Soil Cracks (B6)
Surface Water (A1)		True Aqu	atic Plants (B14)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		Hydroger	Sulfide Odor (C1)		Drainage Patterns (B10)
Saturation (A3)		Oxidized	Rhizospheres on Living	Roots (C3)	D Moss Trim Lines (B16)
Water Marks (B1)		Presence	of Reduced Iron (C4)		Dry-Season Water Table (C2)
Sediment Deposits (B2)		Recent Ir	on Reduction in Tilled So	oils (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)		Thin Muc	k Surface (C7)		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Ex	plain in Remarks)		Stunted or Stressed Plants (D1)
Iron Deposits (B5)					Geomorphic Position (D2)
Inundation Visible on Aer	ial Imagery (B7)				Shallow Aquitard (D3)
Water-Stained Leaves (B	9)				Microtopographic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes No	X Depth (ii	nches):		
Water Table Present?	Yes No	X Depth (ii	nches):		
Saturation Present? (includes capillary fringe)	Yes No _	X Depth (ii	iches):	Wetland H	Hydrology Present? Yes X No
Describe Recorded Data (stre	am gauge, monitor	ing well, aerial	photos, previous inspec	tions), if ava	ilable:
Remarks:					

Sampling Point: DP-MJA-120920-01

	201		Dominant Ir		Dominance Test worksheet:
Tree Stratum (Plot size: 1			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2 3					Total Number of Dominant Species Across All Strata:1(B)
4 5					Percent of Dominant Species That Are OBL, FACW, or FAC:0.00 (A/B)
6					Prevalence Index worksheet:
		:	= Total Cover		Total % Cover of: Multiply by:
	50% of total cover: 0	20% of	total cover:	0	OBL species 0 x 1 = 0
Sapling Stratum (Plot size:)				FACW species 0 x 2 = 0
1					FAC species x 3 =0
2		·			FACU species 70 x 4 = 280
3		·			UPL species 0 x 5 = 0
4					Column Totals: 70 (A) 280 (B)
5 6					Prevalence Index = B/A = 4.00
			= Total Cover		Hydrophytic Vegetation Indicators:
	50% of total cover:0				1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:		20,00.			2 - Dominance Test is >50%
1					3 - Prevalence Index is ≤3.0 ¹
2					4 - Morphological Adaptations ¹ (Provide supporting
3					data in Remarks or on a separate sheet)
4					Problematic Hydrophytic Vegetation ¹ (Explain)
5					
6					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
					Definitions of Five Vegetation Strata:
	50% of total cover: <u>0</u>				Deminuons of Five vegetation Strata.
Herb Stratum (Plot size:		20 % 01			Tree – Woody plants, excluding woody vines,
)	70	Y	FACU	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
2					Sapling – Woody plants, excluding woody vines,
3		·			approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5					Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6					
7 8					Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
9					plants, except woody vines, less than approximately 3
10					ft (1 m) in height.
11					Woody vine – All woody vines, regardless of height.
			= Total Cover		
	50% of total cover: 35	20% of	total cover:	14	
Woody Vine Stratum (Plot siz			_		
1	,				
2					
3					
4					
5					Hydrophytic
			= Total Cover		Hydrophytic Vegetation
	50% of total cover: 0	20% of	total cover:	0	Present? Yes <u>No X</u>
Remarks: (Include photo num	bers here or on a separate s	sheet.)			1
	Active r	ow crops. Se	oy beans rece	ently har	vested.

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1/17/2022 3:27:48 PM

in

Case No(s). 22-0010-EL-BLN

Summary: Letter of Notification Letter of Notification Part 7 electronically filed by Hector Garcia-Santana on behalf of AEP Ohio Transmission Company, Inc.