

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 8 Sample Point: SP 19 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. **Prevalence Index Worksheet** 8. --9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 15 45 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total **75** (A) 165 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes □ No Rapid Test for Hydrophytic Vegetation □ No 10 --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * FAC Juncus tenuis 15 * Indicators of hydric soil and wetland hydrology must be Cyperus esculentus 2. Υ **FACW** present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 75 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present

Yes

No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:		



Are Vegetation ¹	American E Kate Bomal Algiers silt I Side slope 2 Irologic cond , Soil , o	Sharp Road 138 kV Tr. Electric Power (AEF r oam, frequently flo Latitude: itions on the site ty or Hydrology □ sig or Hydrology □ na	oded 40.21133 vpical for gnificantly	Location Locations times	igator #2: cal Relief: ongitude: e of year? ed?	Linear -82.500	NWI/WWI Classification 341	n: none Datum Ves	: WGS 84 No	Date: County: State: Wetland ID: Sample Point: Community ID: Section: Township: Range:		
SUMMARY OF		or riyarology ha	ituruny pi	горістіа						range.	14/7 (Dir. IV//
Hydrophytic Veg		sent?		□ Yes	. □ No			Hydric Soils	Present?			Yes □ No
Wetland Hydrol	ogy Present?	?		□ Yes	□ No			Is This Sam	pling Point	Within A Wetla	and? •	Yes No
		i tors (Check here i	f indicato	ors are n	ot presen	t ☑):						
Primary:	A1 - Surface NA2 - High Wa A3 - Saturation B1 - Water MB2 - Sedimen B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundation	ter Table on arks at Deposits posits tt or Crust			C4 - Pres	atic Faunatic Aquatic ogen Sulfi ized Rhizo ence of Ro ent Iron Re Muck Sur ge or Well	a Plants de Odor spheres on Living Roots educed Iron duction in Tilled Soils face Data		Secondary	B6 - Surface Sc B10 - Drainage C2 - Dry-Seaso C8 - Crayfish B C9 - Saturation D1 - Stunted or D2 - Geomorph D5 - FAC-Neutr	Patterns n Water Ta urrows Visible on Stressed F ic Position	Aerial Imagery
Field Observat Surface Water I Water Table Pro Saturation Pres	Present? esent? ent?	□ Yes □ No □ Yes □ No □ Yes □ No	Depth: Depth: Depth:	:	(in.) (in.) (in.)			Wetland Hy		resent? ¬	Yes □	No
	ed Data (strea	am gauge, monitorin	g well, ae	erial photo	s, previou	s inspecti	ons), if available:		N/A			
Remarks:												
SOILS												
Map Unit Name	:	Algiers silt loam, fr	equently	flooded								
Profile Descrip	tion (Describe to the	ne depth needed to document the inc	dicator or confirm	m the absence of	f indicators.) (Typ	e: C=Concentra	tion, D=Depletion, RM=Reduced Matrix, CS=	=Covered/Coated Sand Gr	rains; Location: PL=P	ore Lining, M=Matrix)		
Тор	Bottom			Matrix	1			lox Features			4	exture
Depth	Depth	Horizon	1	(Moist)	%		Color (Moist)	%	Туре	Location	<u> </u>	y, sand, loam)
0	16	1	10YR	4/3	90	10YR	4/6	10	С	M	silty	clay loam
											-	
												
												
NRCS Hydric S	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M	stic n Sulfide I Layers uck ed Below Dark Surface eark Surface		cators al	re not pre S4 - Sand S5 - Sand S6 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	ly Gleyed ly Redox ped Matrix ny Muck M ny Gleyed eted Matri ox Dark Su eted Dark	Matrix ineral Matrix x rface Surface		S7 - Dark S F12 - Iron-N TF12 - Very Other (Expl	Prairie Redox	urface	disturbed or problematic
Restrictive Layer (If Observed)	Type:	ony i cat of Feat		Depth:				Hydric Soil			Yes 🖂	
Remarks:	,,,							• • • • • • •				



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 8 Sample Point: SP 20 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7. **Prevalence Index Worksheet** 8. --9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. 60 x 5 = 300 2 3. Total 65 (A) 320 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation □ No 10 --□ Yes Dominance Test is > 50% Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No Morphological Adaptations (Explain) * Yes No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * UPL Zea mavs 60 * Indicators of hydric soil and wetland hydrology must be 2. Taraxacum officinale 5 Ν **FACU** present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 65 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Project/Site: Stantec Project #: 193707328 North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Date: 12/31/19 Applicant: American Electric Power (AEP) County: Licking Investigator #1: Kate Bomar Investigator #2: Matt Denzler State: Ohio Algiers silt loam, frequently flooded NWI/WWI Classification: none Soil Unit: Wetland ID: Wetland 9 Landform: Toeslope Local Relief: Concave Sample Point: SP 21 Slope (%): Latitude: 40.210447 Longitude: -82.500081 Datum: WGS 84 Community ID: PEM Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Yes □ No Is This Sampling Point Within A Wetland? **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? Yes □ Nο Depth: (in.) Wetland Hydrology Present? Yes □ No Water Table Present? □ Yes . No Depth: (in.) Saturation Present? □ Yes 🛮 No Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Map Unit Name: Algiers silt loam, frequently flooded Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 10YR 90 10YR silt loam 0 16 2/1 5/6 10 С PL NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleyed Matrix Other (Explain in Remarks) A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 9 Sample Point: SP 21 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 10 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. 10 x 5 = 50 2 3. Total 65 (A) 180 (B) --4. 5. Prevalence Index = B/A = 2.769 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = □ No Prevalence Index is ≤ 3.0 * ¥ Yes □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * UPL Juncus effusus 10 Ν * Indicators of hydric soil and wetland hydrology must be 2. Cyperus esculentus 40 **FACW** present, unless disturbed or problematic. 3. 10 FAC Apocynum cannabinum Ν 4. Setaria faberi 5 Ν **FACU Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 65 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Bomarks

	Additional Remarks.
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Project/Site:	North Newark	- Sharp Road 138 kV Tra	ansmission	Line Rebu	uild Project		Stantec Project #:	193707328		Date:	12/31/19
Applicant:	American E	Electric Power (AEP)							County:	Licking
Investigator #1	: Kate Boma	r		Investi	gator #2:	Matt De	nzler			State:	Ohio
Soil Unit:	Algiers silt	loam, frequently floo	oded			1	NWI/WWI Classification:	none		Wetland ID:	Wetland 9
Landform:	Plain			Loc	al Relief:	Linear				Sample Point:	SP 22
Slope (%):	0	Latitude:			ongitude:			Datum:	WGS 84	Community ID:	UPL
		litions on the site ty				(If no, expla	ain in remarks)	Yes □	No	Section:	N/A
Are Vegetation	□ , Soil □ ,	or Hydrology sig	nificantly	disturb	ed?		Are normal circumsta	nces present?	?	Township:	N/A
Are Vegetation	□ , Soil □ ,	or Hydrology nat	turally pr	oblemati	ic?		Yes	NÐ		Range:	N/A Dir: N/A
SUMMARY OF											
Hydrophytic Ve	egetation Pre	sent?		□ Yes	□ No			Hydric Soils	Present?		□ Yes □ No
Wetland Hydro	0			□ Yes	□ No					Within A Wetla	and? • Yes • No
Remarks:									J		
HYDROLOGY											
		4 (0) 11 '6				1 \					
_		ators (Check here if	indicato	rs are no	ot presen	t □):			0		
<u>Primary</u> □		Mater		п	B9 - Wate	ar Stained	Leaves		Secondary:		oil Cracke
	A2 - High Wa			-	B13 - Aqu				_	B10 - Drainage	
	A3 - Saturation				B14 - True					C2 - Dry-Seaso	
_	B1 - Water M	larks			C1 - Hydr	ogen Sulfi	de Odor			C8 - Crayfish B	urrows
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						educed Iron duction in Tilled Soils				Stressed Plants
	B4 - Algal Ma B5 - Iron Dep				C6 - Rece					D2 - Geomorph D5 - FAC-Neutr	
		on Visible on Aerial Ima	agerv		D9 - Gaug				_	D3 - 1 AC-Neuti	ai i est
		Vegetated Concave S			Other (Ex						
Field Observa	tions:										
Surface Water		□ Yes ☑ No	Depth:		(in.)						
Water Table Pr		□ Yes □ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes □ No
Saturation Pres		□ Yes □ No	Depth:		(in.)						
Catalation 1 100	JOIN:	163 110	Бериі.		(1111.)						
	ded Data (stre	am gauge, monitoring	g well, aeı	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Describe Record Remarks:	ded Data (stre	am gauge, monitorino	g well, aei	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	ded Data (stre	am gauge, monitoring	g well, aeı	rial photo	s, previou	s inspecti	ons), if available:		N/A		
	,			·	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	,	am gauge, monitorinç Algiers silt loam, fre		·	s, previou	s inspecti	ons), if available:		N/A		
Remarks: SOILS Map Unit Name	e:	Algiers silt loam, fre	equently	flooded		·	ons), if available:	Covered/Coated Sand Gra		ore Lining, M=Matrix)	
Remarks: SOILS Map Unit Name	e:	Algiers silt loam, fre	equently	flooded		·	ion, D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Gra		ore Lining, M=Matrix)	Texture
Remarks: SOILS Map Unit Name Profile Descri	e: ption (Describe to t	Algiers silt loam, fre	equently	flooded the absence of		·	ion, D=Depletion, RM=Reduced Matrix, CS=			ore Lining, M=Matrix) Location	Texture (e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip	e: ption (Describe to t	Algiers silt loam, fre	equently	flooded the absence of Matrix	indicators.) (Typ	·	ion, D=Depletion, RM=Reduced Matrix, CS=	ox Features	nins; Location: PL=P	1	_
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	e: ption (Describe to to Bottom Depth	Algiers silt loam, fre	equently icator or confirm Color	flooded the absence of Matrix (Moist)	indicators.) (Typ	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	ins; Location: PL=Po	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	e: ption (Describe to to Depth 6	Algiers silt loam, free the depth needed to document the ind Horizon 1	equently icator or confirm Color 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1	indicators.) (Typ % 100 70	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features % 	Type	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6	e: ption (Describe to to Depth 6 16	Algiers silt loam, free the depth needed to document the ind Horizon 1 2	equently icator or confirm Color 10YR	flooded the absence of Matrix (Moist) 4/2	% 100 70 30	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type	Location 	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6	e: ption (Describe to to Depth 6 16	Algiers silt loam, free the depth needed to document the ind Horizon 1 2 2	color Color 10YR 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1 4/6	% 100 70 30	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist)	ox Features % 	Type	Location 	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 6	e: ption (Describe to	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2	equently icator or confirm Color 10YR 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1 4/6	% 100 70 30	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 6	e: ption (Describe to	Algiers silt loam, free the depth needed to document the ind Horizon 1 2	color or confirm Color 10YR 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1 4/6	% 100 70 30	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 6	e: ption (Describe to	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2	equently icator or confirm Color 10YR 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1 4/6	% 100 70 30	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6	e: Potion (Describe to	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2	Color 10YR 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1 4/6	96	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6 NRCS Hydric	e: Potion (pescribe to	Algiers silt loam, free the depth needed to document the ind Horizon 1 2	Color 10YR 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	% 100 70 30 er not pre	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features	Type s for Problem	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6 NRCS Hydric	e: Poin (Describe to	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 dicators (check he	Color 10YR 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators an	%	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6 NRCS Hydric	e: ption (Describe to to Depth 6 16 Soil Field In A1- Histosol A2 - Histic Ep	Algiers silt loam, free depth needed to document the ind Horizon 1 2 2 dicators (check he	Color 10YR 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	" " " " " " " " " " " " " " " " " " "	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features % Indicators	Type s for Probler A16 - Coast S7 - Dark S	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6 NRCS Hydric	e: Poin (Describe to	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 dicators (check he objeedon stic	Color 10YR 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators an	indicators.) (Typ % 100 70 30 e not pre \$4 - Sanc \$5 - Sanc \$6 - Strip	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam es
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 6 NRCS Hydric	e: Potion (Describe to 1 Bottom Depth 6 16 Soil Field In A1- Histosol A2 - Histic Eç A3 - Black Hi	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 dicators (check he objeedon stic en Sulfide	Color 10YR 10YR 10YR	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	% 100 70 30	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6 NRCS Hydric	Bottom Depth 6 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M	Algiers silt loam, free the depth needed to document the ind Horizon 1 2 2 dicators (check he poipedon stic en Sulfide dayers luck	Color 10YR 10YR 10YR re if indic	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	"micators) (Typ" % 100 70 30 e not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F3 - Depli	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS=	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam es
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6 NRCS Hydric	e: Potion (Describe to	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 Idicators (check he objedon istic en Sulfide di Layers luck ed Below Dark Surface	Color 10YR 10YR 10YR re if indic	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	% 100 70 30 e not pre S4 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Deplo	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)): Matrix ineral Matrix K rface	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam es
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 6 NRCS Hydric	e: Potion (Describe to 1 Bottom Depth 6 16 Soil Field In A1- Histosoi A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifie A10 - 2 cm M A11 - Deplete A12 - Thick D	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 dicators (check he poipedon stic en Sulfide d Layers fluck ed Below Dark Surface park Surface	Color 10YR 10YR 10YR re if indic	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	indicators.) (Typ % 100 70 30 e not pre \$4 - Sanc \$6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam silty clay loam silty clay loam silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6 NRCS Hydric	e: Potion (Describe to 1) Bottom Depth 6 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 idicators (check he dippedon stic an Sulfide di Layers luck ed Below Dark Surface luck Mineral	Color 10YR 10YR 10YR re if indic	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	indicators.) (Typ % 100 70 30 e not pre \$4 - Sanc \$6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam es
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6 NRCS Hydric	e: Potion (Describe to 1) Bottom Depth 6 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 dicators (check he poipedon stic en Sulfide d Layers fluck ed Below Dark Surface park Surface	Color 10YR 10YR 10YR re if indic	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	indicators.) (Typ % 100 70 30 e not pre \$4 - Sanc \$6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam es surface
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6 NRCS Hydric	e: Potion (Describe to 1) Bottom Depth 6 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 idicators (check he dippedon stic an Sulfide di Layers luck ed Below Dark Surface luck Mineral	Color 10YR 10YR 10YR re if indic	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	indicators.) (Typ % 100 70 30 e not pre \$4 - Sanc \$6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam es
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 6 NRCS Hydric Restrictive Layer (If Observed)	Bottom Depth 6 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 idicators (check he dippedon stic an Sulfide di Layers luck ed Below Dark Surface luck Mineral	Color 10YR 10YR 10YR re if indic	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	indicators.) (Typ % 100 70 30 e not pre \$4 - Sanc \$6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam es surface
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 6 NRCS Hydric	Bottom Depth 6 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 idicators (check he dippedon stic an Sulfide di Layers luck ed Below Dark Surface luck Mineral	Color 10YR 10YR 10YR re if indic	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	indicators.) (Typ % 100 70 30 e not pre \$4 - Sanc \$6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam es surface
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 6 NRCS Hydric Restrictive Layer (If Observed)	Bottom Depth 6 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 idicators (check he dippedon stic an Sulfide di Layers luck ed Below Dark Surface luck Mineral	Color 10YR 10YR 10YR re if indic	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	indicators.) (Typ % 100 70 30 e not pre \$4 - Sanc \$6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam es surface
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 6 NRCS Hydric Restrictive Layer (If Observed)	Bottom Depth 6 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Algiers silt loam, free he depth needed to document the ind Horizon 1 2 2 idicators (check he dippedon stic an Sulfide di Layers luck ed Below Dark Surface luck Mineral	Color 10YR 10YR 10YR re if indic	flooded the absence of Matrix (Moist) 4/2 3/1 4/6 cators ar	indicators.) (Typ % 100 70 30 e not pre \$4 - Sanc \$6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist)	ox Features %	Type s for Probler A16 - Coast F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam silty clay loam silty clay loam es surface



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 9 Sample Point: SP 22 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7. **Prevalence Index Worksheet** 8. --9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. 70 x 5 = 350 2 3. Total 70 (A) 350 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation □ No 10 --□ Yes Dominance Test is > 50% Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * 70 UPL Zea mays * Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present

Yes

No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Project/Site: Stantec Project #: 01/08/20 North Newark- Sharp Road 138 kV Transmission Line Rebuild Project 193707328 Date: Applicant: American Electric Power (AEP) County: Licking Investigator #1: Aaron Kwolek Investigator #2: Kate Bomar State: Ohio NWI/WWI Classification: Wetland 10 Soil Unit: Amanda silt loam Wetland ID: Landform: Local Relief: Concave Sample Point: SP 23 Depression Slope (%): Latitude: 40.22929 Longitude: -82.505351 Datum: WGS 84 Community ID: PEM Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Yes □ No Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants 7 A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? □ Yes ☑ (in.) Nο Depth: Wetland Hydrology Present? Yes □ No Water Table Present? □ Yes 7 No Depth: (in.) Saturation Present? □ Yes □ No Depth: 11 (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Map Unit Name: Amanda silt loam Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 10YR 100 silt loam 0 3/1 16 10YR 4/1 95 10YR 4/6 5 С silt loam 1 M NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleved Matrix Other (Explain in Remarks) 7 A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



Additional Bomarks

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 10 Sample Point: SP 23 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 100 (A) 200 (B) --4. 5. Prevalence Index = B/A = 2.000 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes □ No Rapid Test for Hydrophytic Vegetation □ No 10 --Yes Dominance Test is > 50% Total Cover = □ No Prevalence Index is ≤ 3.0 * ¥ Yes □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * 100 Phalaris arundinacea **FACW** * Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 1. 2 Hydrophytic Vegetation Present

Yes

No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks.



Project/Site:	North Newark	- Sharp Road 138 kV Tra	ansmission	Line Rebu	uild Project		Stantec Project #:	193707328		Date:	01/08/20
Applicant:	American E	Electric Power (AEP)							County:	Licking
Investigator #1:	Aaron Kwo	lek `	•	Investi	gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:	Amanda sil				<u> </u>		IWI/WWI Classification:			Wetland ID:	Wetland 10
Landform:	Depression			Loo	al Relief:			•		Sample Point:	
								Detum	WCC 04		
Slope (%):	0	Latitude:			ongitude:				WGS 84	Community ID:	
		litions on the site ty				(If no, expla	,	✓ Yes	No	Section:	N/A
Are Vegetation ¹	□ , Soil □ ,	or Hydrology sig	nificantly	/ disturb	ed?		Are normal circumsta	inces present?	•	Township:	N/A
Are Vegetation	□ , Soil □ ,	or Hydrology page na	turally pr	oblemat	ic?		Yes	Ne		Range:	N/A Dir: N/A
SUMMARY OF	FINDINGS										
Hydrophytic Ve		cent?		□ Yes	□ No			Hydric Soils	Drocont?		□ Yes □ No
, , ,	9			□ Yes						Alithin A \Alatha	
Wetland Hydrol	ogy Present	<u> </u>		□ Yes	□ No			is this Samp	oling Point	within A wetia	and? • Yes • No
Remarks:											
HYDROLOGY											
Watland Hudr	ology Indias	tore (Chaok bara it	indicato	ro oro n	ot procen	+ - \.					
_		itors (Check here if	indicato	ns are no	ot presen	· '):			0		
<u>Primary:</u>	A1 - Surface	Matar			B9 - Wate	r Ctainad	Laguas		Secondary:	B6 - Surface So	il Crooks
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
	A3 - Saturation			_	B14 - Tru					C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydr					C8 - Crayfish B	
	B2 - Sedimer			_			spheres on Living Roots				Visible on Aerial Imagery
]	B3 - Drift Dep			-			educed Iron				Stressed Plants
	B4 - Algal Ma			-			duction in Tilled Soils			D2 - Geomorph	
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutr	
		on Visible on Aerial Im	agery		D9 - Gaug					20 1710 11000	ai 100t
		/ Vegetated Concave S			Other (Ex						
					(,				
Field Observat											
Surface Water		□ Yes □ No	Depth:		(in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Water Table Pr	esent?	□ Yes 🗵 No	Depth:		(in.)				0.097		
Saturation Pres	ent?	Yes □ No	Depth:	11	(in.)						
Dogariba Basard	nd Data (atra	am gauge, monitoring	a well oo	rial photo	o proviou	o inonocti	ana) if available:		N/A		
Describe Record	ed Dala (Sire	am gauge, monitoring	ı well, ae	nai bnoto							
			•		о, р.от.оц	3 mapeon	oris), ii available.		14/74		
Remarks:					, p. o o .	з пізрескі	ons), ii avaliable.		19/74		
Remarks:			, , <u>, , , , , , , , , , , , , , , , , </u>		, p. 51.54	э тэрсси	ons, ii avaliabie.		1974		
Remarks:			,		о, рготос	з тэрсон	ons), ir available.		IV/A		
SOILS		Amanda silt loam	,		, p. c	з тэрсон	ons), ii avaliable.		IVA		
SOILS Map Unit Name		Amanda silt loam		·		·	,			vol ining M-Metrix)	
SOILS Map Unit Name Profile Descrip	tion (Describe to t			the absence of	findicators.) (Typ	·	on, D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Grai		re Lining, M=Matrix)	Toytura
SOILS Map Unit Name Profile Descrip	Bottom	he depth needed to document the inc	icator or confirm	the absence of Matrix	indicators.) (Typ	·	on, D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Grai	ins; Location: PL=Po	T	Texture
SOILS Map Unit Name Profile Descrip Top Depth	Bottom Depth	he depth needed to document the inc	icator or confirm	the absence of Matrix (Moist)	indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist)	Covered/Coated Sand Grain OX Features %		Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip	Bottom	he depth needed to document the inc	icator or confirm	the absence of Matrix	indicators.) (Typ	·	on, D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Grai	ins; Location: PL=Po	T	-
SOILS Map Unit Name Profile Descrip Top Depth	Bottom Depth	he depth needed to document the inc	icator or confirm	the absence of Matrix (Moist)	indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist)	Covered/Coated Sand Grain OX Features %	ins; Location: PL=Po	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	Horizon 1 2	icator or confirm Color 10YR	matrix (Moist) 3/1	findicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS= Color (Moist)	Covered/Coated Sand Grai OX Features % 	ins; Location: PL=Po	Location 	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Bottom Depth 1 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/1 4/1	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist) 4/6	Covered/Coated Sand Grain OX Features % 5	Type C	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Bottom Depth 1 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/1 4/1	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist) 4/6	Covered/Coated Sand Grai OX Features % 5	Type C	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Bottom Depth 1 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/1 4/1	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist) 4/6	Covered/Coated Sand Grain OX Features % 5	Type C	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Bottom Depth 1 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/1 4/1	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist) 4/6	Covered/Coated Sand Grai OX Features % 5	Type C	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Bottom Depth 1 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/1 4/1	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS= Color (Moist) 4/6	Covered/Coated Sand Grail OX Features 9/0 5	Type C	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1	btion (Describe to Describe to Describe to Describe to Depth 1 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/1 4/1	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS= Color (Moist) 4/6	Covered/Coated Sand Grail OX Features % 5	Type C	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Partial Describe to Bottom Depth 1 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/1 4/1	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS= Reduce	Covered/Coated Sand Grail OX Features % 5	Type C	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric :	Bottom Depth 1 16 Soil Field In	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/1 4/1 cators ar	% 100 95 re not pre	e: C=Concentrat	on, D=Deptetion, RM=Reduced Matrix, CS= Redi Color (Moist) 4/6	Covered/Coated Sand Grail OX Features % 5 Indicators	Type C 5 for Problem	Location M	(e.g. clay, sand, loam) silt loam silt loam
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SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	htion (Describe to Describe to Depth 1 1 16 Soil Field In A1- Histosol A2 - Histic E	Horizon 1 2 dicators (check he	Color 10YR 10YR	Matrix (Moist) 3/1 4/1 cators ar	% 100 95 re not pre S4 - Sanc S5 - Sa	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist) 4/6	Covered/Coated Sand Grai OX Features % 5 Indicators	Type C	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	Rion (Describe to: Bottom Depth 1 16 Soil Field In A1- Histosol A3 - Black Hi	Horizon 1 2 dicators (check he	Color 10YR 10YR	Matrix (Moist) 3/1 4/1 cators ar	% 100 95 e not pre S4 - Sanc S6 - Strip.	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS=	Covered/Coated Sand Grail OX Features % 5 Indicators	Type C for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	Prior (Describe to Describe to Depth 1 1 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge	Horizon 1 2 dicators (check he	Color 10YR 10YR	Matrix (Moist) 3/1 4/1 cators ar	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Redi Color (Moist) 4/6	Covered/Coated Sand Grail OX Features % 5 Indicators	Type C s for Problen A16 - Coast S7 - Dark Sg T12 - Iron-M TF12 - Very	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratifier	Horizon 1 2 dicators (check he	Color 10YR 10YR	mthe absence of Matrix (Moist) 3/1 4/1 cators ar	% 100 95	e: C=Concentrat	on, D=Deptetion, RM=Reduced Matrix, CS= Redi Color (Moist) 4/6	Covered/Coated Sand Grail OX Features % 5 Indicators	Type C s for Problen A16 - Coast S7 - Dark Sg T12 - Iron-M TF12 - Very	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	htion (Describe to: Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M	Horizon 1 2 dicators (check he bipedon stic on Sulfide by Layers luck	Color 10YR 10YR re if indic	Matrix (Moist) 3/1 4/1 cators ar	% 100 95 S5 - Sanc S6 - Strip F1 - Loan F3 - Depli	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS=	Covered/Coated Sand Grail OX Features % 5 Indicators	Type C s for Problen A16 - Coast S7 - Dark Sg T12 - Iron-M TF12 - Very	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	Hion (Describe to: Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E, A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	Horizon 1 2 dicators (check he objedon stic en Sulfide d Layers luck ed Below Dark Surface	Color 10YR 10YR re if indic	Matrix (Moist) 3/1 4/1 cators ar	% 100 95	e: C=Concentrat	con, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS=	Covered/Coated Sand Grail OX Features % 5 Indicators	Type C s for Problen A16 - Coast S7 - Dark Sg T12 - Iron-M TF12 - Very	Location M	(e.g. clay, sand, loam) silt loam silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	Rion (Describe to Incomplete Inco	Horizon 1 2 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface	Color 10YR 10YR re if indic	Matrix (Moist) 3/1 4/1 cators ar	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 4/6): Watrix ineral Matrix (rface Surface	Covered/Coated Sand Grail OX Features % 5 Indicators	Type C s for Problen A16 - Coast S7 - Dark Sg T12 - Iron-M TF12 - Very	Location M	(e.g. clay, sand, loam) silt loam silt loam
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SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	Hion (Describe to Describe to Depth 1 1 16	Horizon 1 2 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface	Color 10YR 10YR re if indic	Matrix (Moist) 3/1 4/1 cators ar	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 4/6): Watrix ineral Matrix (rface Surface	Covered/Coated Sand Grail OX Features % 5 Indicators	Type C s for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Explain	Location M	(e.g. clay, sand, loam) silt loam silt loam es surface
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	Hion (Describe to Describe to Depth 1 1 16	Horizon 1 2 dicators (check he bipedon stic an Sulfide d Layers luck ed Below Dark Surface duck Mineral	Color 10YR 10YR re if indic	Matrix (Moist) 3/1 4/1 cators ar	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 4/6): Watrix ineral Matrix (rface Surface	Covered/Coated Sand Grail OX Features % 5 Indicators	Type C for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam) silt loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric:	Hion (Describe to: Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Horizon 1 2 dicators (check he bipedon stic an Sulfide d Layers luck ed Below Dark Surface duck Mineral	Color 10YR 10YR re if indic	Matrix (Moist) 3/1 4/1 cators ar	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 4/6): Watrix ineral Matrix (rface Surface	Covered/Coated Sand Grain OX Features % 5 Indicators Indicators of hydrophyty	Type C for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam) silt loam silt loam es surface
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	Hion (Describe to: Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Horizon 1 2 dicators (check he bipedon stic an Sulfide d Layers luck ed Below Dark Surface duck Mineral	Color 10YR 10YR re if indic	Matrix (Moist) 3/1 4/1 cators ar	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 4/6): Watrix ineral Matrix (rface Surface	Covered/Coated Sand Grain OX Features % 5 Indicators Indicators of hydrophyty	Type C for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam) silt loam silt loam es surface
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric:	Hion (Describe to: Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Horizon 1 2 dicators (check he bipedon stic an Sulfide d Layers luck ed Below Dark Surface duck Mineral	Color 10YR 10YR re if indic	Matrix (Moist) 3/1 4/1 cators ar	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 4/6): Watrix ineral Matrix (rface Surface	Covered/Coated Sand Grain OX Features % 5 Indicators Indicators of hydrophyty	Type C for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam) silt loam silt loam es surface
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric:	Hion (Describe to: Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Horizon 1 2 dicators (check he bipedon stic an Sulfide d Layers luck ed Below Dark Surface duck Mineral	Color 10YR 10YR re if indic	Matrix (Moist) 3/1 4/1 cators ar	% 100 95	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 4/6): Watrix ineral Matrix (rface Surface	Covered/Coated Sand Grain OX Features % 5 Indicators Indicators of hydrophyty	Type C for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam) silt loam silt loam es surface



Additional Bomarks

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 10 Sample Point: SP 24 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. **Prevalence Index Worksheet** 9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = 50 Total Cover = 0 FACW spp. 100 x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Salix nigra 50 **OBL** UPL spp. x 5 = 2 3. Total 150 (A) 250 __(B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes □ No Rapid Test for Hydrophytic Vegetation □ No 10 --Yes Dominance Test is > 50% Total Cover = □ No Prevalence Index is ≤ 3.0 * ¥ Yes □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * 100 Phalaris arundinacea **FACW** * Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 1. 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks.



Project/Site:	North Newark-	- Sharp Road 138 kV T	ransmission	Line Reb	uild Project		Stantec Project #:	193707328		Date:	01/08/20	1
Applicant:	American E	lectric Power (AE	P)							County:	Licking	
Investigator #1	: Aaron Kwol	ek `	,	Investi	gator #2:	Kate Bo	mar			State:	Ohio	
Soil Unit:	Amanda sil				<u> </u>		IWI/WWI Classification	ı.		Wetland ID:	Wetland	10
Landform:	Side slope	Cloum		Loc	al Relief:		Win Will Glassification			Sample Point:		
Slope (%):		المنطقة ا					104	Datum	WGS 84			
	2		e: 40.22971		ongitude:					Community ID:		
		litions on the site t				(If no, expla		Yes □	_No	Section:	N/A	
		or Hydrology 🗆 s					Are normal circumsta	•	,	Township:	N/A	
		or Hydrology 🖳 n	aturally pr	oblemat	ic?		Yes	NÐ		Range:	N/A	Dir: N/A
SUMMARY OF	FINDINGS											
Hydrophytic Ve	egetation Pres	sent?		Yes	□ No			Hydric Soils	Present?			Yes 🛮 No
Wetland Hydro				□ Yes						Within A Wetla		
Remarks:	nogy i resent	•		100	140			15 THIS CAITI	oning i onit	vvidilii / t vv Cdc	aria:	103 110
rtomanto.												
HYDROLOGY												
Wetland Hydi	rology Indica	itors (Check here	if indicate	rs are n	ot presen	t □):						
Primary		(0			от р. осо	. ,.			Secondary:			
	A1 - Surface	Water			B9 - Wate	r-Stained	Leaves			B6 - Surface Sc	il Cracks	
	A2 - High Wa	iter Table			B13 - Aqu	atic Fauna	1			B10 - Drainage	Patterns	
	A3 - Saturation	on			B14 - Tru	e Aquatic I	Plants			C2 - Dry-Seaso	n Water Ta	ble
	B1 - Water M				C1 - Hydr					C8 - Crayfish B		
	B2 - Sedimer						spheres on Living Roots			C9 - Saturation		
	B3 - Drift Dep						duced Iron			D1 - Stunted or		Plants
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorph		
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutr	ai rest	
		on Visible on Aerial Ir Vegetated Concave			D9 - Gauo Other (Ex							
_	Do - Oparsery	vegetated Concave	Juliace	_	Other (LX	piaiii iii ixe	illains)					
F: 1101												
Field Observa												
Surface Water		□ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes 🖪	No
Water Table P	resent?	□ Yes □ No	Depth:		(in.)			Wolland Hy	arology i i	COCIIC:	100	140
Saturation Pres	sent?	□ Yes ☑ No	Depth:		(in.)							
Dogoribo Bosor	dod Dota (otro	am gauge, monitori	na woll oo	rial photo	o proviou	o inonocti	ana) if available:		N/A			
Describe Descoid	acu Dala (Sile											
	`	33-,		nai prioto	is, previou	3 III3pecti	ons), ii avaliable.		IN/A			
Remarks:		gg-, ···		nai prioto	s, previou	з шэреси	ons), ii avaliabie.		IN/A			
Remarks:	,	gg-,	g, ac	nai priote	s, previou	з пізреси	ons), ii avaliable.		N/A			
	V	3 3		nai prioto	s, previou	з шэреси	ons), ii avaliabie.		N/A			
Remarks:	·			nai prioto	s, previou	з пізреси	ліз), ії ачапаліє.		N/A			
Remarks: SOILS Map Unit Name	e:	Amanda silt loam		·		·	,	=Covered/Coated Sand Gra		ore Lining M=Matriy)		
Remarks: SOILS Map Unit Name Profile Descri	e: ption (Describe to t	Amanda silt loam		n the absence of	findicators.) (Typ	·	on, D=Depletion, RM=Reduced Matrix, CS	=Covered/Coated Sand Gra		ore Lining, M=Matrix)	Т т	·exture
Remarks: SOILS Map Unit Name Profile Descri	e: ption (Describe to the Bottom	Amanda silt loam	indicator or confirm	n the absence of Matrix	indicators.) (Typ	·	on, D=Depletion, RM=Reduced Matrix, CS Rec	dox Features	ins; Location: PL=Po	ı	4	exture
Remarks: SOILS Map Unit Name Profile Descri Top Depth	e: ption (Describe to to Bottom Depth	Amanda silt loam he depth needed to document the Horizon	indicator or confirm	n the absence of Matrix	indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	ins; Location: PL=Po	Location	(e.g. cla	y, sand, loam)
Remarks: SOILS Map Unit Name Profile Descri	e: ption (Describe to the Bottom	Amanda silt loam	indicator or confirm	n the absence of Matrix	indicators.) (Typ	·	on, D=Depletion, RM=Reduced Matrix, CS Rec	dox Features	ins; Location: PL=Po	ı	(e.g. cla	
Remarks: SOILS Map Unit Name Profile Descri Top Depth	e: ption (Describe to to Bottom Depth	Amanda silt loam he depth needed to document the Horizon	indicator or confirm	n the absence of Matrix	indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	ins; Location: PL=Po	Location	(e.g. cla	y, sand, loam)
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: ption (Describe to to Bottom Depth 16	Amanda silt Ioam he depth needed to document the Horizon 1	indicator or confirm Color 10YR	m the absence of Matrix (Moist)	findicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features % 	Type	Location 	(e.g. cla	y, sand, loam) <mark>ilt loam</mark>
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: ption (Describe to to to Depth 16	Amanda silt Ioam he depth needed to document the Horizon 1	Color 10YR	m the absence of Matrix (Moist) 4/4	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 	dox Features %	Type	Location 	(e.g. cla	y, sand, loam) ilt loam
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Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: ption (Describe to to Depth 16	Amanda silt loam ne depth needed to document the Horizon 1	Color 10YR	Matrix (Moist) 4/4	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	%	Type	Location	(e.g. cla	y, sand, loam) ilt loam
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Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: Potion (Describe to the sound of the sou	Amanda silt loam ne depth needed to document the Horizon 1	Color 10YR	Matrix (Moist) 4/4	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	%	Type	Location	(e.g. cla	y, sand, loam)
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: Potion (Describe to the sound of the sou	Amanda silt loam ne depth needed to document the Horizon 1	Color 10YR	Matrix (Moist) 4/4	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	%	Type	Location	(e.g. cla	y, sand, loam)
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric	e: Bottom Depth 16	Amanda silt loam he depth needed to document the Horizon 1 dicators (check hoppedon	Color 10YR	Matrix (Moist) 4/4	% 100 re not pre \$4 - Sanc \$5 - Sanc \$5 - Sanc \$5 - Sanc \$5 - Sanc \$6 - Sa	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	(e.g. clay	y, sand, loam)
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi	Amanda silt loam ne depth needed to document the Horizon 1 dicators (check hoppedon stic	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	(e.g. cla	y, sand, loam)
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge	Amanda silt loam he depth needed to document the Horizon 1 dicators (check hoppedon stic n Sulfide	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	(e.g. cla	y, sand, loam)
Remarks: SOILS Map Unit Nam. Profile Descri Top Depth 0 NRCS Hydric	e: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black H A4 - Hydroge A5 - Stratified	Amanda silt loam he depth needed to document the Horizon 1 dicators (check hospedon stic n Sulfide	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	(e.g. cla	y, sand, loam)
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Bottom Depth	Amanda silt loam he depth needed to document the Horizon 1 dicators (check hoppedon stic in Sulfide in Layers luck	Color 10YR	Matrix (Moist) 4/4	% 100 S5 - Sanc S6 - Strip F1 - Loan F3 - Depli	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	(e.g. cla	y, sand, loam)
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric	e: Poin (Describe to to to Depth 16	Amanda silt loam ne depth needed to document the Horizon 1 dicators (check hoppedon stic n Sulfide da Layers luck ed Below Dark Surface	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrate sent y Gleyed y Redox y Redox y Muck M y Gleyed eted Matrix y Muck M eted Matrix x Dark Su	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix inneral Matrix crface	dox Features %	Type	Location	(e.g. cla	y, sand, loam)
Remarks: SOILS Map Unit Nam Profile Descri Top Depth 0 NRCS Hydric	e: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick D	Amanda silt loam ne depth needed to document the Horizon 1 dicators (check hoppedon stic n Sulfide I Layers luck ad Below Dark Surface	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	(e.g. cla	y, sand, loam)
Remarks: SOILS Map Unit Nam. Profile Descri Top Depth 0 NRCS Hydric	e: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	Amanda silt loam he depth needed to document the Horizon 1 dicators (check hosipedon stic n Sulfide d Layers luck ded Below Dark Surface luck Mineral	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	es urface	y, sand, loam) ilt loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosoi A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Amanda silt loam ne depth needed to document the Horizon 1 dicators (check hoppedon stic n Sulfide I Layers luck ad Below Dark Surface	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	es urface	y, sand, loam) ilt loam disturbed or problematic.
Remarks: SOILS Map Unit Nam. Profile Descri Top Depth 0 NRCS Hydric	e: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	Amanda silt loam he depth needed to document the Horizon 1 dicators (check hosipedon stic n Sulfide d Layers luck ded Below Dark Surface luck Mineral	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	es urface	y, sand, loam) ilt loam disturbed or problematic.
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric Restrictive Layer (If Observed)	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosoi A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Amanda silt loam he depth needed to document the Horizon 1 dicators (check hosipedon stic n Sulfide d Layers luck ded Below Dark Surface luck Mineral	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	es urface	y, sand, loam) ilt loam disturbed or problematic.
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric Restrictive Layer	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosoi A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Amanda silt loam he depth needed to document the Horizon 1 dicators (check hosipedon stic n Sulfide d Layers luck ded Below Dark Surface luck Mineral	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	es urface	y, sand, loam) ilt loam disturbed or problematic.
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric Restrictive Layer (If Observed)	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosoi A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Amanda silt loam he depth needed to document the Horizon 1 dicators (check hosipedon stic n Sulfide d Layers luck ded Below Dark Surface luck Mineral	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type	Location	es urface	y, sand, loam) ilt loam disturbed or problematic.



Additional Bomarks

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 10 Sample Point: SP 25 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 15 45 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. _ 120 480 Rubus allegheniensis 60 **FACU** UPL spp. x 5 = 2. **FACU** Aesculus flava 15 Ν 3. Cornus florida 15 Ν **FACU** Total 145 (A) 545 (B) 4. 5. Prevalence Index = B/A = 3.759 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = ☑ No Prevalence Index is ≤ 3.0 * Yes ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Alliaria petiolata 15 **FAC** * Indicators of hydric soil and wetland hydrology must be 2. Phytolacca americana 30 Υ **FACU** present, unless disturbed or problematic. 3. Phalaris arundinacea 10 **FACW** Ν 4. **Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 55 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks:

	Additional Remarks:
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Project/Site:		- Sharp Road 138 kV Lir		Project			Stantec Project #:	193707328		Date:	01/08/2	0
Applicant:		Electric Power (AEP	²)							County:	Licking	
Investigator #1	: Aaron Kwo	lek		Investi	gator #2:	Kate Bo	mar			State:	Ohio	
Soil Unit:	Carlisle mu	ıck				1	IWI/WWI Classification	n: PEM1C		Wetland ID:	Wetland	11
Landform:	Depression	า				L	ocal Relief: Concave			Sample Point:	SP 26	
Slope (%):	2	Latitude:	40.22779	Lo	ongitude:	-82.5052	274	Datum:	WGS 84	Community ID:	PEM	
Are climatic/hy	drologic cond	ditions on the site ty	pical for	this time	of year?	(If no, expla	in in remarks)	Yes □	No	Section:	N/A	
Are Vegetation	□ . Soil □ .	or Hydrology sig	nificantly	/ disturb	ed?		Are normal circumst	ances present?	>	Township:	N/A	
		or Hydrology na					Yes	N⊕ ʻ		Range:	N/A	Dir: N/A
SUMMARY OF			turumy pr	o Di o i i i di						r tarigo:	14,71	5
Hydrophytic Ve	agetation Pro	cont?		□ Yes	□ No			Hydric Soils	Procent?		2	Yes □ No
Wetland Hydro	Joan Procent	2		□ Yes						Within A Wetla		
Remarks:	PEM1C	.!		- 1 es	- NO			is this same	ning Point	willin A wella	iriu ? 💆	res - No
Nemarks.	FEMIC											
HYDROLOGY												
Wetland Hydr	rology Indica	ators (Check here i	f indicato	rs are no	ot presen	t □):						
Primary	<u>/.</u>	•			•	•			Secondary:			
	A1 - Surface									B6 - Surface So		
	A2 - High Wa				B13 - Aqu					B10 - Drainage		
	A3 - Saturati				B14 - Tru				_	C2 - Dry-Seaso		able
	B1 - Water M				C1 - Hydr					C8 - Crayfish B		A 1 1
	B2 - Sedimer B3 - Drift Der						spheres on Living Roots duced Iron			C9 - Saturation D1 - Stunted or		
	B4 - Algal Ma			-			duction in Tilled Soils			D2 - Geomorph		
	B5 - Iron Der				C7 - Thin					D5 - FAC-Neutr		
	B7 - Inundati	on Visible on Aerial Im	agery		D9 - Gaug	ge or Well	Data					
_	B8 - Sparsely	y Vegetated Concave S	Surface		Other (Ex	plain in Re	marks)					
Field Observa	tions:											
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)			Watland Hi	dualanı Du		V	Na
Water Table Pr	resent?	□ Yes □ No	Depth:		(in.)			Wetland Hy	arology Pr	esent?	Yes ¬	INO
Saturation Pres	sent?	□ Yes □ No	Depth:		(in.)							
Dogoribo Bosoro	dad Data (atra	eam gauge, monitorin	•		. ,	o inonceti	ana) if available:		N/A			
	ded Data (Sile	am gauge, monitorin	y well, ae	παι μποιο	s, previou	s irispecti	ons), ii avaliable.		11//			
Remarks:												
SOILS												
Map Unit Name		Carlisle muck										
Profile Descri	ption (Describe to	the depth needed to document the inc	dicator or confirm	the absence of	findicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS	=Covered/Coated Sand Gra	ins; Location: PL=Po	ore Lining, M=Matrix)		
Тор	Bottom			Matrix			Red	dox Features				Texture
Depth	Depth	Horizon	Color	(Moist)	%		Color (Moist)	%	Type	Location	(e.g. cla	ay, sand, loam)
0	16	1	10YR	2/1	42							silt loam
0	16	1	10YR	4/1	50	10YR	4/6	8	С	М		silt loam
											i '	
												
												
	+				+							
					<u> </u>							
NRCS Hydric	Soil Field In	ndicators (check he	ere if indi	cators ar	re not pre	sent 🗆):	Indicators	for Problen	natic Soils 1		
	A1- Histosol				S4 - Sand	ly Gleyed I	Matrix		A16 - Coast	Prairie Redox		
		pipedon			S5 - Sand				S7 - Dark Si			
	A2 - Histic E				S6 - Strip	ped Matrix				langanese Masse		
	A3 - Black H			_	E4 1							
0	A3 - Black H A4 - Hydroge	en Sulfide			F1 - Loan					Shallow Dark Su	ırface	
	A3 - Black H A4 - Hydroge A5 - Stratifie	en Sulfide d Layers			F2 - Loan	y Gleyed	Matrix			Shallow Dark Stain in Remarks)	ırface	
	A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M	en Sulfide d Layers ⁄luck	a a		F2 - Loan F3 - Deple	ny Gleyed eted Matrix	Matrix				irface	
	A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M	en Sulfide d Layers luck ed Below Dark Surface	;		F2 - Loan F3 - Deple F6 - Redo	y Gleyed	Matrix c rface				irface	
0	A3 - Black H A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet	en Sulfide d Layers Muck ed Below Dark Surface Dark Surface	•		F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ny Gleyed eted Matrix ox Dark Su	Matrix c rface Surface				irface	
	A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm Mi A11 - Deplet A12 - Thick I S1 - Sandy Mi	en Sulfide d Layers Muck ed Below Dark Surface Dark Surface	÷		F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ny Gleyed eted Matrix ox Dark Su eted Dark	Matrix c rface Surface		Other (Expla	ain in Remarks)		s disturbed or problematic
Restrictive Layer	A3 - Black H A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick I S1 - Sandy M S3 - 5 cm Mu	en Sulfide d Layers Muck ed Below Dark Surface Dark Surface Muck Mineral	3		F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ny Gleyed eted Matrix ox Dark Su eted Dark	Matrix c rface Surface	□ Indicators of hydrophyl	Other (Expla	ain in Remarks) etland hydrology must be		
Restrictive Layer (If Observed)	A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm Mi A11 - Deplet A12 - Thick I S1 - Sandy Mi	en Sulfide d Layers Muck ed Below Dark Surface Dark Surface Muck Mineral)		F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ny Gleyed eted Matrix ox Dark Su eted Dark	Matrix c rface Surface		Other (Expla	ain in Remarks) etland hydrology must be	present, unles	
Restrictive Layer	A3 - Black H A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick I S1 - Sandy M S3 - 5 cm Mu	en Sulfide d Layers Muck ed Below Dark Surface Dark Surface Muck Mineral			F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ny Gleyed eted Matrix ox Dark Su eted Dark	Matrix c rface Surface	□ Indicators of hydrophyl	Other (Expla	ain in Remarks) etland hydrology must be	present, unles	
Restrictive Layer (If Observed)	A3 - Black H A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick I S1 - Sandy M S3 - 5 cm Mu	en Sulfide d Layers Muck ed Below Dark Surface Dark Surface Muck Mineral			F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ny Gleyed eted Matrix ox Dark Su eted Dark	Matrix c rface Surface	□ Indicators of hydrophyl	Other (Expla	ain in Remarks) etland hydrology must be	present, unles	



3. 4. 5.

Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 11 Sample Point: SP 26 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Fraxinus pennsylvanica 20 **FACW** 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. __ 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 20 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 120 (A) 225 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Phalaris arundinacea 75 **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Polygonum sagittatum 15 Ν OBL present, unless disturbed or problematic. 3. Verbesina alternifolia 10 Ν **FACW** 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2

Additional Remarks:		

Total Cover =

0

Hydrophytic Vegetation Present Yes No



Project/Site: Applicant:		Sharp Road 138 kV lectric Power (Al		Line Reb	uild Project		Stantec Project #:	193707328		Date: County:	01/08/20 Licking
Investigator #1	: Aaron Kwol	ek `	,	Investi	gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:	Carlisle mu	ck					NWI/WWI Classification	n:		Wetland ID:	Wetland 11
Landform:	Rise			Loc	al Relief:	Convex				Sample Point:	SP 27
Slope (%):	3	Latitud	de: 40.22791	L	ongitude:	-82.505	228	Datum:	WGS 84	Community ID:	: UPL
Are climatic/hyd	drologic cond	itions on the site	typical for	this time	of year?	(If no, expla	ain in remarks)	Yes □	No	Section:	N/A
Are Vegetation	□ , Soil □ , o	or Hydrology 🗆	significantly	y disturb	ed?		Are normal circumst	tances present?	?	Township:	N/A
		or Hydrology 🗆					Yes	NÐ		Range:	N/A Dir: N/A
SUMMARY OF		, 0,	, ,							, i	
Hydrophytic Ve	getation Pres	sent?		□ Yes	□ No			Hydric Soils	Present?		□ Yes □ No
Wetland Hydro					□ No					Within A Wetla	and? • Yes • No
Remarks:	.ogy : 1000				110			To this Saint	5g . 5t		
HYDROLOGY											
		4 (Obl- b	- 16 1114 -		-4	4 \-					
		tors (Check her	e it indicato	ors are n	ot presen	11 □):			Casandan		
Primary	<u>:</u> A1 - Surface \	Nater			R9 - Wate	er-Stained	Leaves		Secondary:	B6 - Surface So	nil Cracks
	A2 - High Wa					uatic Faun				B10 - Drainage	
	A3 - Saturatio					e Aquatic				C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydr					C8 - Crayfish B	
	B2 - Sedimen						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						educed Iron eduction in Tilled Soils				Stressed Plants
	B4 - Algal Ma B5 - Iron Dep					Muck Sur				D2 - Geomorph D5 - FAC-Neutr	
		on Visible on Aerial	Imagery		D9 - Gaug					D3 - 1 AC-Neuti	iai iest
		Vegetated Concav									
Field Observa	tions:										
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)			W (I III		10	V N
Water Table Pr		□ Yes □ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	Yes □ No
Saturation Pres		□ Yes □ No	Depth:		(in.)						
					(/	. ,	\ 'C '1 1		N1/A		
Describe Record	led Data (stre:										
		ani gauge, monito	illig well, ac	ilai piloto	is, previou	s irispecii	ons), if available:		N/A		
Remarks:	(0	am gauge, monito	illig well, ac	nai prioto	s, previou	is irispecii	ons), ir avallable:		N/A		
Remarks:	ou Data (oo.	am gauge, monito	iling well, ac	mai prioto	s, previou	з іпѕресц	ons), if available:		N/A		
	ou Duid (ono.	am gauge, monto	mig well, ac	mai prioto	s, previou	з пізресіі	ons), ir avallable:		N/A		
Remarks: SOILS Map Unit Name	e:	Carlisle muck		·		·	,				
Remarks: SOILS Map Unit Name	e:	Carlisle muck		·		·	ons), if available:	S=Covered/Coated Sand Gra		ore Lining, M=Matrix)	
Remarks: SOILS Map Unit Name	e:	Carlisle muck		·	findicators.) (Typ	·	iion, D=Depletion, RM=Reduced Matrix, CS	B=Covered/Coated Sand Gra dox Features		ore Lining, M=Matrix)	Texture
Remarks: SOILS Map Unit Name Profile Descrip	e: ption (Describe to the	Carlisle muck	e indicator or confirm	n the absence of	findicators.) (Typ	·	iion, D=Depletion, RM=Reduced Matrix, CS			ore Lining, M=Matrix) Location	Texture (e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top	e: ption (Describe to the Bottom	Carlisle muck	e indicator or confirm	n the absence of Matrix	indicators.) (Typ	·	iion, D=Depletion, RM=Reduced Matrix, CS Rec	dox Features	ins; Location: PL=P		
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	e: ption (Describe to the Bottom Depth	Carlisle muck te depth needed to document the	te indicator or confirm	n the absence of Matrix	indicators.) (Typ	e: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	ins; Location: PL=P	Location	(e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	e: Bottom Depth 16	Carlisle muck te depth needed to document the Horizon 1	color 10YR	m the absence of Matrix (Moist) 3/3	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features % 	ins; Location: PL=P	Location 	(e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	e: ption (Describe to # Bottom Depth 16	Carlisle muck te depth needed to document the Horizon 1	Color 10YR	m the absence of Matrix (Moist) 3/3	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	Type	Location 	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Describe to the Bottom Depth 16	Carlisle muck te depth needed to document the Horizon 1	Color 10YR	m the absence of Matrix (Moist) 3/3	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	%	Type	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Describe to the Depth 16	Carlisle muck te depth needed to document the Horizon 1	Color 10YR	m the absence of Matrix (Moist) 3/3	% 100	ve: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features	Type	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	Describe to the Depth 16	Carlisle muck te depth needed to document the Horizon 1	Color 10YR	m the absence of Matrix (Moist) 3/3	% 100	se: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features	Type		(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Describe to the Depth 16	Carlisle muck te depth needed to document the Horizon 1	Color 10YR	m the absence of Matrix (Moist) 3/3	% 100	ve: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features	Type	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Describe to the Bottom Depth 16	Carlisle muck te depth needed to document the Horizon 1	Color 10YR	Matrix (Moist) 3/3	% 100	ve: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features	Type		(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Depth Bottom Depth 16 Soil Field In	Carlisle muck te depth needed to document the Horizon 1	Color 10YR	Matrix (Moist) 3/3 cators al	% 100 re not pre	e: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	%	Type s for Probler	Location matic Soils ¹	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol	Carlisle muck Horizon 1 dicators (check	Color 10YR	Matrix (Moist) 3/3 cators al	% 100	e: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features % Indicators	Type 5 for Probler	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep	Carlisle muck te depth needed to document the Horizon 1 dicators (check ipedon	Color 10YR	Matrix (Moist) 3/3 cators al	% 100 re not pre S4 - Sanc S5 - Sa	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	Type	Location matic Soils ¹ t Prairie Redox urface	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His	Carlisle muck te depth needed to document the Horizon 1 dicators (check ipedon stic	Color 10YR	m the absence of Matrix (Moist) 3/3 cators al	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features % Indicators	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	Carlisle muck Horizon 1 dicators (check sipedon stic n Sulfide	Color 10YR	Matrix (Moist) 3/3 cators al	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His	Carlisle muck Horizon 1 dicators (check ipedon stic n Sulfide Layers	Color 10YR	Matrix (Moist) 3/3 cators al	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A10 - 2 cm M	Carlisle muck Horizon 1 dicators (check ipedon stic n Sulfide Layers	Color 10YR here if indi	Matrix (Moist) 3/3 cators al	% 100	ese C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Bottom Depth 16	Carlisle muck te depth needed to document the Horizon 1 dicators (check sipedon stic in Sulfide Layers uck de Below Dark Surfaark Surface	Color 10YR here if indi	n the absence of Matrix (Moist) 3/3 -	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16	Carlisle muck Horizon 1 dicators (check ipedon stic n Sulfide I Layers uck de Below Dark Surface uck Mineral	Color 10YR here if indi	Matrix (Moist) 3/3 cators al	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Explain	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16	Carlisle muck te depth needed to document the Horizon 1 dicators (check sipedon stic in Sulfide Layers uck de Below Dark Surfaark Surface	Color 10YR here if indi	n the absence of Matrix (Moist) 3/3 -	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Explain	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16	Carlisle muck Horizon 1 dicators (check ipedon stic n Sulfide I Layers uck de Below Dark Surface uck Mineral	Color 10YR here if indi	n the absence of Matrix (Moist) 3/3 -	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coasts F12 - Iron-N TF12 - Very Other (Expl	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	Bottom Depth 16	Carlisle muck Horizon 1 dicators (check ipedon stic n Sulfide I Layers uck de Below Dark Surface uck Mineral	Color 10YR here if indi	n the absence of Matrix (Moist) 3/3 -	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coasts F12 - Iron-N TF12 - Very Other (Expl	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16	Carlisle muck Horizon 1 dicators (check ipedon stic n Sulfide I Layers uck de Below Dark Surface uck Mineral	Color 10YR here if indi	n the absence of Matrix (Moist) 3/3 -	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coasts F12 - Iron-N TF12 - Very Other (Expl	Location	(e.g. clay, sand, loam) silt loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	Bottom Depth 16	Carlisle muck Horizon 1 dicators (check ipedon stic n Sulfide I Layers uck de Below Dark Surface uck Mineral	Color 10YR here if indi	n the absence of Matrix (Moist) 3/3 -	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coasts F12 - Iron-N TF12 - Very Other (Expl	Location	(e.g. clay, sand, loam) silt loam



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 11 Sample Point: SP 27

VEGETATION (Species identified in all uppercase are non-native species.)

VEGETATION	(Species identified in all uppercase are non-n	ative spec	ies.)		
Tree Stratum (Plo	t size: 30 ft radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:3(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
7.					···
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0
	Total Cover =	0			FACW spp. 10 x 2 = 20
					FAC spp. 0 x 3 = 0
Sapling/Shrub Stra	atum (Plot size: 15 ft radius)				FACU spp. 110 x 4 = 440
1.	Rubus allegheniensis	10	Υ	FACU	UPL spp. 0 x 5 = 0
2.					
3.					Total 120 (A) 460 (B)
4.	-				(1) <u>120</u> (1)
5.					Prevalence Index = B/A = 3.833
6.					Flevalence index - D/A - 3.833
7.					
8.					Hydrophytic Vegetation Indicators:
-					
9.					□ Yes □ No Rapid Test for Hydrophytic Vegetation
10.					□ Yes □ No Dominance Test is > 50%
	Total Cover =	10			□ Yes □ No Prevalence Index is ≤ 3.0 *
					Yes No Morphological Adaptations (Explain) *
Herb Stratum (Plot					Yes No Problem Hydrophytic Vegetation (Explain) *
1.	Verbesina alternifolia	10	N	FACW	* Indicators of hydric soil and wetland hydrology must be
2.	Schedonorus arundinaceus	50	Y	FACU	present, unless disturbed or problematic.
3.	Plantago lanceolata	5	N	FACU	· · · · · · · · · · · · · · · · · · ·
4.	Trifolium pratense	15	N	FACU	Definitions of Vegetation Strata:
5.	Solidago canadensis	30	Υ	FACU	
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at
7.					breast height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.					II. tall.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.					and woody plants less than 3.28 π. tall.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
-	Total Cover =	110			
Woody Vine Strati	ım (Plot size: 30 ft radius)				
1.					
2.	-				
3.	-				Hydrophytic Vegetation Present Yes No
4.					Tryatophytio rogotation riesent = 163 = 100
5.					
ა.					
Remarks:	Total Cover =	U			
ixciliaixs.					
1					

Additional Remarks:			



										1 =	
Project/Site:		Sharp Road 138 kV		Line Reb	uild Project		Stantec Project #:	193707328		Date:	01/08/20
Applicant:		lectric Power (A	EP)							County:	Licking
Investigator #1				Investi	igator #2:					State:	Ohio
Soil Unit:	Pewamo sil	ty clay loam				1	NWI/WWI Classification	n: PEM1A		Wetland ID:	N/A
Landform:	Depression					I	ocal Relief: Concave			Sample Point:	SP 28
Slope (%):	0	Latitue	de: 40.23536	L	ongitude:	-82.505	852	Datum:	WGS 84	Community ID:	: UPL non-JD
Are climatic/hyd	drologic cond	itions on the site	typical for	this time	of year?	(If no, expla	ain in remarks)	□ Yes □	No	Section:	N/A
		or Hydrology					Are normal circumst	tances present?	?	Township:	N/A
Are Vegetation	□ Soil□ (or Hydrology <u>-</u>	naturally nr	ohlemat	ic?		□ Yes	NÐ		Range:	N/A Dir: N/A
SUMMARY OF		or riyarology	naturally pr	obicinat	10:					range.	TN// DII. TN//
				V	NI-			Librataia Onita	D +0		- V N-
Hydrophytic Ve	0			□ Yes				Hydric Soils		\A/://: A \A/://	□ Yes □ No
Wetland Hydro	logy Present	?		□ Yes	□ No			Is This Samp	oling Point	Within A Wetla	and? • Yes • No
Remarks:											
HYDROLOGY											
Wetland Hydr	ology Indica	tors (Check her	e if indicato	ors are n	nt nresen	t □)•					
Primary		tors (Officer fier	C II IIIdicate	ns arc ir	ot presen	· ·			Secondary:		
<u>- 1111121 y</u>	A1 - Surface \	Nater			B9 - Wate	er-Stained	Leaves			B6 - Surface So	oil Cracks
	A2 - High Wa					uatic Faun				B10 - Drainage	
	A3 - Saturatio				B14 - Tru	e Aquatic	Plants			C2 - Dry-Seaso	
	B1 - Water M	arks			C1 - Hydr	ogen Sulfi	de Odor			C8 - Crayfish B	
	B2 - Sedimen						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						educed Iron				Stressed Plants
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorph	
	B5 - Iron Dep					Muck Sur				D5 - FAC-Neuti	ral Test
		on Visible on Aerial			D9 - Gau						
	B8 - Sparsely	Vegetated Concav	ve Surrace		Other (Ex	piain in Re	emarks)				
Field Observa											
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	rocont?	Yes □ No
Water Table Pr	esent?	□ Yes □ No	Depth:		(in.)			welland my	urology Fi	esent:	163 110
Saturation Pres	sent?	□ Yes □ No	Depth:		(in.)						
D 11 D	15.4.7.4		'		(/						
	ca Data (Stree	ani gauge, monito	ning well, ae	mai prioto	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	ed Data (Street	am gauge, monito	ning well, ae	mai prioto	s, previou	is inspecti	ons), if available:		N/A		
	ed Bata (Street	am gauge, monito	omig well, ae	riai prioto	s, previou	is inspecti	ons), if available:		N/A		
	ou Data (Sirot	am gauge, monito	oring well, ae	riai prioto	s, previou	is inspecti	ons), if available:		N/A		
Remarks:	·	Pewamo silty cla		пагрпосс	s, previou	is inspecti	ons), if available:		N/A		
Remarks: SOILS Map Unit Name	e:	Pewamo silty cla	ay loam	·		·	,	s=Covered/Coated Sand Gra		ore Linina. M=Matrix)	
Remarks: SOILS Map Unit Name Profile Descrip	e: otion (Describe to the	Pewamo silty cla	ay loam	n the absence of	findicators.) (Typ	·	iion, D=Depletion, RM=Reduced Matrix, CS			ore Lining, M=Matrix)	Texture
Remarks: SOILS Map Unit Name Profile Descrip Top	e: Stion (Describe to the Bottom	Pewamo silty cla	ay loam he indicator or confirm	n the absence of Matrix	indicators.) (Typ	·	iion, D=Depletion, RM=Reduced Matrix, CS Rec	dox Features	ins; Location: PL=P		Texture
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	e: otion (Describe to the Bottom Depth	Pewamo silty classed to document the Horizon	ay loam he indicator or confirm Color	n the absence of Matrix	indicators.) (Typ	e: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	ins; Location: PL=P	Location	(e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	e: otion (Describe to the Bottom Depth 16	Pewamo silty classed to document the Horizon	ay Ioam he indicator or confirm Color 10YR	m the absence of Matrix (Moist)	findicators.) (Typ	be: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 	dox Features % 	ins; Location: PL=P	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	e: otion (Describe to the Bottom Depth	Pewamo silty classed to document the Horizon	ay loam he indicator or confirm Color	n the absence of Matrix	indicators.) (Typ	e: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	ins; Location: PL=P	Location	(e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	e: otion (Describe to the Bottom Depth 16	Pewamo silty classed to document the Horizon	ay Ioam he indicator or confirm Color 10YR	m the absence of Matrix (Moist)	findicators.) (Typ	be: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 	dox Features % 	Type	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Dition (Describe to 8 Bottom Depth 16	Pewamo silty classed to document the Horizon	ay loam he indicator or confirm Color 10YR	n the absence of Matrix (Moist) 4/2	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features % 	Type	Location 	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Describe to the Bottom Depth 16	Pewamo silty classed to document the depth needed to document the Horizon 1	ay loam he indicator or confirm Color 10YR	n the absence of Matrix (Moist) 4/2	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	Type	Location 	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Describe to the Depth 16	Pewamo silty classed depth needed to document the Horizon 1	ay loam he indicator or confirm Color 10YR	m the absence of Matrix (Moist) 4/2	% 100	ve: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Describe to the Depth 16	Pewamo silty classed depth needed to document the Horizon 1	ay loam he indicator or confirm Color 10YR	m the absence of Matrix (Moist) 4/2	% 100	se: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features	Type		(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Describe to the Depth 16	Pewamo silty classed depth needed to document the Horizon 1	ay loam he indicator or confirm Color 10YR	Matrix (Moist) 4/2	% 100	ve: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Depth 16	Pewamo silty classe depth needed to document the Horizon 1	ay loam he indicator or confirm Color 10YR	m the absence of Matrix (Moist) 4/2	% 100	ve: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features	Type		(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In	Pewamo silty classed depth needed to document the Horizon 1	ay loam he indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	% 100 re not pre	e: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	%	Type s for Probler	Location matic Soils ¹	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol	Pewamo silty cla e depth needed to document the Horizon 1 dicators (check	ay loam he indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	% 100	e: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features % Indicators	Type 5 for Probler	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep	Pewamo silty classed to document the depth needed to document the document the depth needed to document the	ay loam he indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	% 100 re not pre S4 - Sanc S5 - Sa	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	Type	Location matic Soils ¹ t Prairie Redox urface	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His	Pewamo silty classed depth needed to document the document the depth needed to document the docu	ay loam he indicator or confirm Color 10YR	n the absence of Matrix (Moist) 4/2	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	Pewamo silty cla te depth needed to document the Horizon 1 dicators (check sipedon stic in Sulfide	ay loam he indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	Pewamo silty cla e depth needed to document the Horizon 1 dicators (check ippedon stic in Sulfide Layers	ay loam he indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	% 100	ese C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A10 - 2 cm M	Pewamo silty classed to document the depth needed to document the document the depth needed to document the document th	ay loam he indicator or confirm Color 10YR here if indi	Matrix (Moist) 4/2 cators al	% 100	es: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1 - Deplete	Pewamo silty classed depth needed to document the documen	ay loam he indicator or confirm Color 10YR here if indi	Matrix (Moist) 4/2 cators ar	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)): Matrix cinneral Matrix x rface	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A10 - 2 cm A11 - Deplete A12 - Thick D	Pewamo silty cla te depth needed to document the Horizon 1 dicators (check sipedon stic n Sulfide Layers uck dd Below Dark Surfa ark Surface	ay loam he indicator or confirm Color 10YR here if indi	n the absence of Matrix (Moist) 4/2 cators al	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Signature Specified In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M	Pewamo silty cla Horizon 1 dicators (check ipedon stic n Sulfide Layers uck de Below Dark Surface uck Mineral	ay loam he indicator or confirm Color 10YR here if indi	Matrix (Moist) 4/2 cators ar	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Explain	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16	Pewamo silty cla te depth needed to document the Horizon 1 dicators (check sipedon stic n Sulfide Layers uck dd Below Dark Surfa ark Surface	ay loam he indicator or confirm Color 10YR here if indi	n the absence of Matrix (Moist) 4/2	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coasts F12 - Iron-N TF12 - Very Other (Expl	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Signature Specified In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M	Pewamo silty cla Horizon 1 dicators (check ipedon stic n Sulfide Layers uck de Below Dark Surface uck Mineral	ay loam he indicator or confirm Color 10YR here if indi	n the absence of Matrix (Moist) 4/2 cators al	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coasts F12 - Iron-N TF12 - Very Other (Expl	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	Bottom Depth 16	Pewamo silty cla Horizon 1 dicators (check ipedon stic n Sulfide Layers uck de Below Dark Surface uck Mineral	ay loam he indicator or confirm Color 10YR here if indi	n the absence of Matrix (Moist) 4/2	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coasts F12 - Iron-N TF12 - Very Other (Expl	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16	Pewamo silty cla Horizon 1 dicators (check ipedon stic n Sulfide Layers uck de Below Dark Surface uck Mineral	ay loam he indicator or confirm Color 10YR here if indi	n the absence of Matrix (Moist) 4/2	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coasts F12 - Iron-N TF12 - Very Other (Expl	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	Bottom Depth 16	Pewamo silty cla Horizon 1 dicators (check ipedon stic n Sulfide Layers uck de Below Dark Surface uck Mineral	ay loam he indicator or confirm Color 10YR here if indi	n the absence of Matrix (Moist) 4/2	% 100	ee: C=Concentra	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist)): Matrix cineral Matrix x rface Surface Surface Reduced Matrix, CS Rec Color (Moist)	dox Features %	Type s for Probler A16 - Coasts F12 - Iron-N TF12 - Very Other (Expl	Location	(e.g. clay, sand, loam) silty clay loam



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: N/A Sample Point: SP 28 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: ____0%___ (A/B) 6. 7. **Prevalence Index Worksheet** 8. --9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 15 (A) **75** (B) --4. 5.000 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes ■ No Rapid Test for Hydrophytic Vegetation □ No 10 --□ Yes Dominance Test is > 50% Total Cover = Yes ⊠ No Prevalence Index is ≤ 3.0 * ☑ No Morphological Adaptations (Explain) * Yes No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Glycine max UPL 15 * Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 15 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present

Yes

No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:		



Project/Site: 01/08/20 North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Stantec Project #: 193707328 Date: Applicant: American Electric Power (AEP) County: Licking Investigator #1: Aaron Kwolek Investigator #2: Kate Bomar State: Ohio NWI/WWI Classification: PSS1/EM1C Soil Unit: Pewamo silty clay loam Wetland ID: Wetland 12 Landform: Basin Sample Point: SP 29 Local Relief: Concave Slope (%): Latitude: 40.24204 Longitude: -82.506641 Datum: WGS 84 Community ID: PEM Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Yes □ No Is This Sampling Point Within A Wetland? Remarks: PSS1/EM1C **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table \Box B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants 2 A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? Yes □ No. 1 (in.) Depth: Wetland Hydrology Present? Yes □ No Water Table Present? 7 Yes 🗆 No Depth: Surface (in.) Saturation Present? □ Yes □ No Depth: Surface (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Map Unit Name: Pewamo silty clay loam Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 10YR 88 2.5YR silty clay loam 0 16 4/1 4/1 12 C M NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleved Matrix Other (Explain in Remarks) 7 A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 12 Sample Point: SP 29 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. **Prevalence Index Worksheet** 8. --9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 100 (A) 195 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * 95 Phalaris arundinacea **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Polygonum sagittatum 5 Ν OBL present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Are Vegetation	American E Aaron Kwo Pewamo si Basin 0 drologic conc , Soil , Soil ,	Latitude: Latitude: ditions on the site ty or Hydrology = sig	40.24258 pical for	Invest L this time	igator #2: ongitude: e of year? ed?	l -82.506	NWI/WWI Classification Local Relief: Concave 756	n: PSS1/EM1C Datum: Yes	WGS 84 No	Sample Point: Community ID: Section: Township:	PSS N/A N/A	d 12	N/A
SUMMARY OF		or Hydrology <u> </u>	turally pr	obiemai	IC?		e res	149		Range:	N/A	Dir:	N/A
Hydrophytic Ve		cont?		□ Yes	□ No			Hydric Soils	Procent?			Voc	□ No
Wetland Hydrol				□ Yes						Within A Wetla			
Remarks:	PSS1/EM1			- 163	- INO			is This Gain	Jilly Follit	vvitilii A vvetič	ariu : -	165	- NO
HYDROLOGY													
	ology Indica	ators (Check here it	f indicato	re are n	ot presen	t - \-							
Primary	A1 - Surface A2 - High Wa A3 - Saturati B1 - Water M B2 - Sedime B3 - Drift Del B4 - Algal Ma B5 - Iron Dep B7 - Inundati	Water ater Table on darks nt Deposits posits at or Crust	agery		B9 - Wate B13 - Aqu B14 - Tru C1 - Hydr C3 - Oxid C4 - Pres	er-Stained latic Fauna e Aquatic logen Sulfi ized Rhizo ence of Re ent Iron Re Muck Surf ge or Well	a Plants de Odor spheres on Living Roots educed Iron duction in Tilled Soils ace Data		Secondary:	B6 - Surface So B10 - Drainage C2 - Dry-Seaso C8 - Crayfish Bi C9 - Saturation D1 - Stunted or D2 - Geomorph D5 - FAC-Neutr	Patterns n Water T urrows Visible or Stressed ic Positior	n Aerial I Plants	magery
Field Observat Surface Water Water Table Pr Saturation Pres	Present? esent? ent?	□ Yes □ No □ Yes □ No □ Yes □ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hy		resent?	Yes □	No	
	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A				
Remarks:													
2011.0													
SOILS		Develope eller devel											
Map Unit Name		Pewamo silty clay I					ion, D=Depletion, RM=Reduced Matrix, CS						
Top	Bottom	the depth needed to document the inc	dicator or confirm	Matrix		e: C=Concentral		dox Features	ins; Location: PL=Po	ore Lining, M=Matrix)		Texture	
Depth	Depth	Horizon	Color	(Moist)	%		Color (Moist)	%	Type	Location	4		d, loam)
0	4	1	10YR	3/1	100						· -	y clay l	
4	16	2	10YR	3/4	90	10YR	4/6	10	С	М	5	, o.c., .	
NRCS Hydric	Soil Field In	idicators (check he	re if indic	cators a	re not pre	sent 🗆):	Indicators	for Problen	natic Soils 1			
	A12 - Thick I S1 - Sandy N	stic en Sulfide d Layers fluck ed Below Dark Surface Jark Surface Juck Mineral			S5 - Sand S6 - Strip F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ly Gleyed ly Redox ped Matrix ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark ox Depress	ineral Matrix K rface Surface		S7 - Dark Si F12 - Iron-M TF12 - Very Other (Expla	langanese Massi Shallow Dark Su ain in Remarks)	urface		
De atriativa Laura	S3 - 5 cm Mu	ıcky Peat or Peat						1 Indicators of hydrophy	tic vegetation and w	etland hydrology must be	present, unles	s disturbed	or problematic
Restrictive Layer (If Observed)	Type:			Depth:				Hydric Soil	Present?		Yes ¬	No	
Remarks:													



2

3. 4. 5.

Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 12 Sample Point: SP 30 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) 3. 4. Total Number of Dominant Species Across All Strata: 5 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 80% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 10 40 Cornus sericea 20 **FACW** UPL spp. x 5 = 2. **FACU** Rubus allegheniensis 10 235 __(B) 3. Rosa palustris 10 OBL Total 140 (A) 4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = 40 Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * **FACW** Solidago gigantea 30 * Indicators of hydric soil and wetland hydrology must be 2. 40 OBL Carex Iurida present, unless disturbed or problematic. 3. 15 **OBL** Epilobium coloratum Ν 4. Agrimonia parviflora 15 Ν **FACW Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius)

Additional Remarks:		

Total Cover =

0

Hydrophytic Vegetation Present Yes No



Are Vegetation ¹	American E Aaron Kwo Pewamo si Rise 2 drologic conc , Soil , Soil ,	Sharp Road 138 kV Tr Electric Power (AEF lek Ity clay loam Latitude ditions on the site ty or Hydrology sigor Hydrology na	: 40.24315 /pical for gnificantly	Investi Lo Li this time	gator #2: cal Relief ongitude: e of year? ed?	Convex: -82.506	mar JWI/WWI Classification: : :	Datum:	WGS 84 No	Date: County: State: Wetland ID: Sample Point: Community ID: Section: Township: Range:	
Hydrophytic Ve		sent?		□ Yes	□ No			Hydric Soils I	Present?		□ Yes □ No
Wetland Hydrol	ogy Present	?		□ Yes	□ No					Within A Wetla	and? • Yes • No
Primary:	A1 - Surface A2 - High Wa A3 - Saturatio B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatio B8 - Sparsely	ater Table on larks It Deposits posits at or Crust posits on Visible on Aerial Im y Vegetated Concave	nagery Surface		B9 - Wate B13 - Aqu B14 - Tru C1 - Hydr C3 - Oxid C4 - Pres C6 - Rece C7 - Thin D9 - Gauq Other (Ex	er-Stained uatic Fauna e Aquatic l rogen Sulfi ized Rhizo ence of Re ent Iron Re Muck Surl ge or Well	Plants de Odor spheres on Living Roots duction in Tilled Soils ace Data		Secondary:		Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants ic Position
Surface Water I Water Table Pro Saturation Pres	esent?	□ Yes □ No □ Yes □ No □ Yes □ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Describe Recorde	ed Data (stre	am gauge, monitorin	a well. ae	rial photo	s. previou	s inspecti	ons), if available:		N/A		
Remarks:		a gaage,ee	9 110, 40	iai piiote	o, p. o 1. o a	opoo	one), ii aranabio.				
SOILS											
Map Unit Name		Pewamo silty clay									
I Profile Descrip	otion (Describe to t	he depth needed to document the in	dicator or confirm	the absence of	indicators.) (Typ	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS=C		ns; Location: PL=Po	ore Lining, M=Matrix)	T
	Dattana			N A - twise							
Тор	Bottom		Color	Matrix			Redo	ox Features	Type	Location	Texture
Top Depth	Depth	Horizon	+	(Moist)	%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
Top Depth 0	Depth 4	Horizon 1	10YR	(Moist) 3/5	% 100		Color (Moist)	%			(e.g. clay, sand, loam) silt loam
Top Depth 0 4	Depth 4 16	Horizon 1 2	10YR 10YR	(Moist) 3/5 4/4	% 100 100		Redo Color (Moist)	%			(e.g. clay, sand, loam) silt loam silt loam
Top Depth 0	Depth 4	Horizon 1	10YR	(Moist) 3/5	% 100		Color (Moist)	% 			(e.g. clay, sand, loam) silt loam
Top Depth 0 4	Depth 4 16	Horizon 1 2	10YR 10YR 	(Moist) 3/5 4/4	% 100 100 		Color (Moist)	% 		 	(e.g. clay, sand, loam) silt loam silt loam
Top	Depth 4 16	Horizon 1 2	10YR 10YR 	(Moist) 3/5 4/4 	% 100 100 		Color (Moist)	% 	 	 	(e.g. clay, sand, loam) silt loam silt loam
Top	Depth 4 16	Horizon 1 2	10YR 10YR 	3/5 4/4 	% 100 100 	 	Redo Color (Moist)	% 		 	(e.g. clay, sand, loam) silt loam silt loam
Top Depth 0 4	Depth 4 16	Horizon 1 2	10YR 10YR 	(Moist) 3/5 4/4	% 100 100	 	Redo Color (Moist)	%	 	 	(e.g. clay, sand, loam) silt loam silt loam
Top Depth 0 4 NRCS Hydric S	Depth 4 16 Soil Field In A1- Histosol A2 - Histic Eg. A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Horizon 1 2 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface duck Mineral	10YR 10YR ere if indic	(Moist) 3/5 4/4	% 100 100 e not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli		Redo Color (Moist)	%			(e.g. clay, sand, loam) silt loam es
Top Depth 0 4 NRCS Hydric :	Depth 4 16 Soil Field In A1- Histosol A2 - Histic Eg. A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Horizon 1 2 dicators (check he oipedon stic en Sulfide d Layers fluck ded Below Dark Surface our Sur	10YR 10YR ere if indic	(Moist) 3/5 4/4 cators an	% 100 100 e not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli		Redo Color (Moist)	%	for Problem A16 - Coast S7 - Dark Si F12 - Iron-N TF12 - Very Other (Expla		(e.g. clay, sand, loam) silt loam silt loam
Top Depth 0 4 NRCS Hydric :	Depth 4 16 Soil Field In A1- Histosol A2- Histic E; A3- Black Hi A4- Hydroge A5- Stratifier A11- Deplete A12- Thick E S1- Sandy N S3-5 cm ML	Horizon 1 2 dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface duck Mineral	10YR 10YR ere if indic	(Moist) 3/5 4/4 cators an	% 100 100 e not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli		Redo Color (Moist)	% Indicators Indicators of hydrophytic	for Problem A16 - Coast S7 - Dark Si F12 - Iron-N TF12 - Very Other (Expla		(e.g. clay, sand, loam) silt loam silt loam es urface



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 12 Sample Point: SP 31 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 5 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 40% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 55 Rosa multiflora 15 **FACU** UPL spp. x 5 = 225 FAC 2 Crataegus crus-galli 5 3. Total 130 (A) 485 (B) 4. Prevalence Index = B/A = 5. 3.731 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No Dominance Test is > 50% --□ Yes Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * UPL Solidago canadensis 45 * Indicators of hydric soil and wetland hydrology must be 2. Lepidium virginicum 40 **FACU** present, unless disturbed or problematic. 3. Carex frankii 25 OBL 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 110 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Applicant:	American El	Sharp Road 138 kV Tr ectric Power (AEP					Stantec Project #:	193707328		Date: County:	01/08/20 Licking	
Investigator #1:				Investi	gator #2:	Kate Bo				State:	Ohio	
	Amanda silt	loam					IWI/WWI Classification:			Wetland ID:		13
Landform:	Side slope					Concave		_		Sample Point:		
	2	Latitude:				-82.5070			WGS 84	Community ID:	PEM	
		tions on the site ty				(If no, expla	nin in remarks)	Yes □	_No	Section:	N/A	
		r Hydrology 🗆 sig					Are normal circumsta	nces present?)	Township:	N/A	
Are Vegetation <u>□</u>	<u>, Soil 🗀 , o</u>	r Hydrology <u>□</u> na	turally pr	oblemati	c?		Yes	N⊎		Range:	N/A	Dir: N/A
SUMMARY OF F	FINDINGS											
Hydrophytic Veg	etation Pres	ent?		□ Yes	□ No)		Hydric Soils	Present?		2	Yes 🗆 N
Wetland Hydrolo				□ Yes	□ No)				Within A Wetla		
Remarks:												
Wetland Hydro	ology Indicat	ors (Check here i	f indicato	rs are no	ot presen	nt 🗆):						
Primary:		(/-			Secondary:			
	A1 - Surface V					er-Stained				B6 - Surface Sc		
	A2 - High Wat					uatic Fauna				B10 - Drainage		
	A3 - Saturation					e Aquatic l				C2 - Dry-Seaso		ble
	B1 - Water Ma B2 - Sediment					rogen Sulfi	de Odor spheres on Living Roots			C8 - Crayfish B		Aerial Image
	B3 - Drift Depo						educed Iron			D1 - Stunted or		
	B4 - Algal Mat						duction in Tilled Soils			D2 - Geomorph		
	B5 - Iron Depo	sits				Muck Surf				D5 - FAC-Neutr	al Test	
		No Visible on Aerial Im				ge or Well						
	B8 - Sparsely	Vegetated Concave S	Surface		Other (Ex	oplain in Re	emarks)					
ield Observati					/: \							Nia
Surface Water F Water Table Pre Saturation Prese	esent?	Yes No Yes No	Depth: Depth:	Surfac	(in.) ce (in.)			Wetland Hyd	drology Pr	resent?	Yes □	NO
Water Table Pre Saturation Prese	esent? ent?	Yes No	Depth: Depth:	Surfac Surfac	ce (in.)					resent?	Yes □	INO
Water Table Pre Saturation Prese Describe Recorde	esent? ent?	□ Yes □ No	Depth: Depth:	Surfac Surfac	ce (in.)	ıs inspecti	ons), if available:		N/A	resent?	Yes ¬	NO
Water Table Pre Saturation Prese	esent? ent?	Yes No	Depth: Depth:	Surfac Surfac	ce (in.)	ıs inspecti	ons), if available:			resent?	Yes ¬	INO
Water Table Pre Saturation Prese Describe Recorde Remarks:	esent? ent?	Yes No	Depth: Depth:	Surfac Surfac	ce (in.)	ıs inspectio	ons), if available:			resent?	Yes ¬	INO
Water Table Pre Saturation Prese Describe Recorde Remarks:	esent? ent? ed Data (strea	□ Yes □ No □ Yes □ No m gauge, monitorin	Depth: Depth:	Surfac Surfac	ce (in.)	ıs inspection	ons), if available:			resent?	Yes ¬	INO
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Sample Point: SP 32



North Newark- Sharp Road 138 kV Transmission Line Rebuild Project

Project/Site:

WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: Wetland 13

VEGETATION (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 20 UPL spp. x 5 = 2 3. Total 100 (A) 205 (B) --4. 5. Prevalence Index = B/A = 2.050 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --2 Yes Dominance Test is > 50% Total Cover = □ No Prevalence Index is ≤ 3.0 * ¥ Yes ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Juncus effusus 15 Ν **OBL** * Indicators of hydric soil and wetland hydrology must be 2. 20 **OBL** Carex Iurida present, unless disturbed or problematic. 3. 20 **FACW** Phalaris arundinacea 20 **FACU Definitions of Vegetation Strata:** 4. Setaria faberi Lysimachia nummularia 5. 15 Ν **FACW** 6 Onoclea sensibilis 10 Ν **FACW** Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 __ 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Are Vegetation ¹	American E Aaron Kwo Amanda sil Basin 0 drologic conc , Soil , So	t loam Latitude: litions on the site ty or Hydrology □ sig or Hydrology □ na sent?	40.24643 pical for prificantly	Loc Loc this time	gator #2: al Relief: congitude: cof year? ed? ic?	Concav -82.507 (If no, expla	NWI/WWI Classification: e 172 sin in remarks) Are normal circumstar P Yes	Datum: Yes nces present? No Hydric Soils	Present?	Sample Point: Community ID: Section: Township: Range:	
LIVEROL COV											
HYDROLOGY Wetland Hydro Primary:	A1 - Surface A2 - High Wa A3 - Saturati B1 - Water W B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundation	ater Table on larks nt Deposits posits at or Crust	agery		B9 - Wate B13 - Aqu B14 - Tru C1 - Hydr C3 - Oxid C4 - Pres	er-Stained uatic Fauna e Aquatic l ogen Sulfi ized Rhizo ence of Re ent Iron Re Muck Surl ge or Well	Plants de Odor spheres on Living Roots educed Iron duction in Tilled Soils face Data			B6 - Surface So B10 - Drainage C2 - Dry-Seaso C8 - Crayfish Bt C9 - Saturation D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutr	Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants ic Position
Field Observat Surface Water Water Table Pro Saturation Pres	Present? esent? ent?	□ Yes ☑ No □ Yes ☑ No □ Yes ☑ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hyd		esent? ¬	Yes □ No
	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:											
SOILS											
	٠.	Amanda silt loam									
Map Unit Name	•	7 tillianiaa ont loaili									
Profile Descrip	otion (Describe to t		dicator or confirm			e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS=C		ns; Location: PL=Po	ore Lining, M=Matrix)	
Profile Descrip	Bottom	he depth needed to document the inc		Matrix		e: C=Concentral	Redo	ox Features		T	Texture
Profile Descrip Top Depth	Bottom (Describe to	he depth needed to document the inc	Color	Matrix (Moist)	%		Color (Moist)	x Features %	Type	Location	(e.g. clay, sand, loam)
Top Depth 0	Bottom Depth 16	he depth needed to document the inc Horizon 1	Color 10YR	Matrix (Moist) 4/3	% 100		Redo Color (Moist)	%	Type 	Location 	(e.g. clay, sand, loam) silt loam
Profile Descrip Top Depth	Bottom Depth 16	he depth needed to document the inc Horizon 1	Color	Matrix (Moist) 4/3	% 100 		Color (Moist)	x Features %	Type	Location	(e.g. clay, sand, loam)
Top Depth 0	Bottom Depth 16	he depth needed to document the inc Horizon 1	Color 10YR	Matrix (Moist) 4/3	% 100		Redo Color (Moist)	%	Type 	Location 	(e.g. clay, sand, loam) silt loam
Profile Descrip Top Depth 0	Bottom Depth 16	he depth needed to document the inc Horizon 1	Color 10YR 	Matrix (Moist) 4/3 	% 100 		Color (Moist)	%	Type 	Location 	(e.g. clay, sand, loam) silt loam
Profile Descrip Top Depth 0	Bottom (Describe to	Horizon 1	Color 10YR 	Matrix (Moist) 4/3 	% 100 	 	Color (Moist)	%	Type	Location	(e.g. clay, sand, loam) silt loam
Profile Descrip Top Depth 0	Bottom (Describe to	Horizon 1	Color 10YR 	Matrix (Moist) 4/3 	% 100 	 	Redo Color (Moist)	%	Type	Location	(e.g. clay, sand, loam) silt loam
Profile Descrip Top Depth 0	Dotton (Describe to Depth Depth 16	Horizon 1	Color 10YR 	Matrix (Moist) 4/3	% 100	 	Redo Color (Moist)		Type	Location	(e.g. clay, sand, loam) silt loam
Profile Descrip Top Depth 0	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Horizon 1 dicators (check here) site on Sulfide d Layers luck ed Below Dark Surface	Color 10YR 	Matrix (Moist) 4/3	% 100		Redo Color (Moist)	x Features %	Type for Problen A16 - Coast S7 - Dark Si F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silt loam
Profile Descrip	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Horizon 1 dicators (check here) stic an Sulfide d Layers luck ded Below Dark Surface bark Surface fluck Mineral	Color 10YR 	Matrix (Moist) 4/3 cators ar	% 100	sent dy Gleyed dy Redox ped Matrix y Muck My Gleyed eted Matrix x Dark Su eted Dark	Redo Color (Moist)	x Features %	Type for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silt loam
Profile Descrip Top Depth 0 NRCS Hydric	Describe to: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Horizon 1 dicators (check here) stic an Sulfide d Layers luck ded Below Dark Surface bark Surface fluck Mineral	Color 10YR 	Matrix (Moist) 4/3 cators ar	% 100	sent dy Gleyed dy Redox ped Matrix y Muck My Gleyed eted Matrix x Dark Su eted Dark	Redo Color (Moist)	ox Features % Indicators Indicators of hydrophyty	Type for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silt loam



5.

Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 13 Sample Point: SP 33 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 4 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 25% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. _ 50 Rosa multiflora 10 **FACU** UPL spp. 40 x 5 = 200 2 10 **FACU** Rubus allegheniensis 460 __(B) 3. Total 110 (A) 4. Prevalence Index = B/A = 5. 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation □ No 10 --□ Yes Dominance Test is > 50% Total Cover = ☑ No Prevalence Index is ≤ 3.0 * Yes ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * UPL Solidago canadensis * Indicators of hydric soil and wetland hydrology must be 2. 20 FAC Alliaria petiolata present, unless disturbed or problematic. 3. 15 **FACU** Glechoma hederacea Ν 4. 15 Ν **FACU Definitions of Vegetation Strata:** Phytolacca americana 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4.

Additional Remarks:			

Total Cover =

0



Project/Site:	North Newark-	Sharp Road 138 kV	Fransmission	Line Rebu	uild Project		Stantec Project #:	193707328		Date:	01/02/20
Applicant:	American El	ectric Power (AE	P)							County:	Licking
nvestigator #1:				Investi	gator #2:	Matt De	nzler			State:	Ohio
Soil Unit:	Stonelick loa	am, occasionally	flooded			N	WI/WWI Classification	: none			Wetland 14
Landform:	Terrace				al Relief:					Sample Point:	
Slope (%):	0		e: 40.25405		ongitude:				WGS 84	Community ID:	
		tions on the site				(If no, expla		Yes □	No	Section:	N/A
		r Hydrology 🗆 s					Are normal circumsta	ances present	?	Township:	N/A
		r Hydrology 🖰 🛚 r	aturally pr	oblemat	ic?		Yes	N∌		Range:	N/A Dir: N/
SUMMARY OF	FINDINGS										
Hydrophytic Ve	getation Prese	ent?		□ Yes	□ No			Hydric Soils	Present?		Yes □
Wetland Hydrol	ogy Present?			□ Yes	□ No			Is This Sam	pling Point	Within A Wetla	and? • Yes •
Remarks:											
IYDROLOGY Wetland Hydro	ology Indicat	ors (Check here	if indicate	ors are no	ot presen	t □):					
Primary:	<u>:</u>	•			•	•			Secondary:		
☑	A1 - Surface V				B9 - Wate					B6 - Surface So	
	A2 - High Wate A3 - Saturation				B13 - Aqu					B10 - Drainage C2 - Dry-Seaso	
	B1 - Water Ma				B14 - True					C8 - Crayfish B	
_	B2 - Sediment			_			spheres on Living Roots		_		Visible on Aerial Imag
	B3 - Drift Depo	osits			C4 - Prese	ence of Re	educed Iron			D1 - Stunted or	Stressed Plants
	B4 - Algal Mat						duction in Tilled Soils		_	D2 - Geomorph	
	B5 - Iron Depo	isits n Visible on Aerial I	maden		C7 - Thin D9 - Gaug					D5 - FAC-Neuti	rai i est
		Vegetated Concave			Other (Ex						
Field Observat											
Surface Water I		Yes □ No	Depth:		(in.)			Wetland Hy	drology Pi	esent?	Yes □ No
		D Mar D No.	Depth:		(in.)						
Water Table Pro		□ Yes □ No	Deptii.		()						
Water Table Pro Saturation Pres		□ Yes □ No	Depth:		(in.)						
Saturation Pres	ent?		Depth:		(in.)	s inspection	ons), if available:		N/A		
Saturation Pres Describe Recordo	ent?	□ Yes □ No	Depth:		(in.)	s inspecti	ons), if available:		N/A		
Saturation Pres	ent?	□ Yes □ No	Depth:		(in.)	s inspecti	ons), if available:		N/A		
Saturation Pres Describe Record Remarks:	ent?	□ Yes □ No	Depth:		(in.)	s inspecti	ons), if available:		N/A		
Saturation Pres Describe Recorde Remarks:	ent? ed Data (strea	□ Yes □ No m gauge, monitor	Depth: ing well, ae	rial photo	(in.)	s inspecti	ons), if available:		N/A		
Saturation Pres Describe Recorde Remarks: SOILS Map Unit Name	ent? ed Data (strea	□ Yes □ No m gauge, monitor	Depth:	rial photo	(in.)	·	,	s/Powerall/Posted Sand City		oral ining MeMatriy)	
Saturation Pres Describe Recorde Remarks: GOILS Map Unit Name Profile Descrip	ent? ed Data (strea	□ Yes □ No m gauge, monitor	Depth:	rial photo y floodec	(in.) s, previous	·	ion, D=Depletion, RM=Reduced Matrix, CS=			ore Lining, M=Matrix)	Texture
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top	ed Data (strea	Yes No No m gauge, monitor	Depth: ing well, ae ccasionall indicator or confirm	y flooded the absence of Matrix	(in.) is, previous	·	ion, D=Depletion, RM=Reduced Matrix, CS=	ox Features	ains; Location: PL=P		Texture
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth	ed Data (strea	Yes No m gauge, monitor Stonelick loam, o	Depth: ing well, ae ccasionall indicator or confirm Color	y flooded the absence of Matrix (Moist)	(in.) s, previous	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	ains; Location: PL=P	Location	(e.g. clay, sand, lo
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ed Data (strea	Yes No No m gauge, monitor Stonelick loam, or depth needed to document the Horizon	Depth: ing well, ae ccasionall indicator or confirm Color 10YR	y flooded the absence of Matrix (Moist) 4/2	(in.) s, previous indicators.) (Type	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features % 	ains; Location: PL=P Type	Location 	(e.g. clay, sand, lo
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ed Data (strea	Yes No m gauge, monitor Stonelick loam, of depth needed to document the Horizon 1	Depth: ing well, ae ccasionall indicator or confirm Color 10YR	y floodec the absence of Matrix (Moist) 4/2	(in.) s, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	Type	Location 	(e.g. clay, sand, lo
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ed Data (strea	Yes No No m gauge, monitor Stonelick loam, of depth needed to document the Horizon 1	Depth: ing well, ae ccasionallindicator or confirm Color 10YR	y floodec the absence of Matrix (Moist) 4/2	(in.) s, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	%	Type	Location 	(e.g. clay, sand, loss sandy loam
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? ed Data (strea ction (Describe to the Bottom Depth 16	Yes No No m gauge, monitor Stonelick loam, of depth needed to document the Horizon 1	Depth: ing well, ae ccasionallindicator or confirm Color 10YR	y flooded the absence of Matrix (Moist)	(in.) ss, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, losandy loam
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? ed Data (strea ction (Describe to the Bottom Depth 16	Yes No No m gauge, monitor Stonelick loam, of depth needed to document the Horizon 1	Depth: ing well, ae ccasionall indicator or confirm Color 10YR	y floodec the absence of Matrix (Moist) 4/2	(in.) ss, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, losandy loam
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? ed Data (strea ction (Describe to the Bottom Depth 16	Yes No Mongauge, monitor Stonelick loam, of depth needed to document the Horizon 1	Depth: ing well, ae ccasionall indicator or confirm Color 10YR	y floodec the absence of Matrix (Moist) 4/2	(in.) ss, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, los sandy loam
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? ed Data (strea ction (Describe to the Bottom Depth 16	Yes No No m gauge, monitor Stonelick loam, of depth needed to document the Horizon 1	Depth: ing well, ae ccasionall indicator or confirm Color 10YR	y floodec the absence of Matrix (Moist) 4/2	(in.) ss, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	%	Type	Location	(e.g. clay, sand, losandy loam
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip	ent? ed Data (strea et : S tion (Describe to the Bottom Depth 16	Yes No Manager, Monitor Stonelick loam, or depth needed to document the Horizon 1	Depth: ing well, ae ccasionalli indicator or confirm Color 10YR	y flooded the absence of Matrix (Moist) 4/2	(in.) ss, previous indicators) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	%	ains; Location: PL=P		(e.g. clay, sand, los sandy loam
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	ent? ed Data (strea b: S tion (Describe to the Bottom Depth 16 Soil Field Ind	Yes No Mongauge, monitor Stonelick loam, of depth needed to document the Horizon 1	Depth: ing well, ae ccasionalli indicator or confirm Color 10YR	y flooded the absence of Matrix (Moist) 4/2 cators ar	(in.) ss, previous indicators.) (Typ 96 100 re not pre	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)		ains; Location: PL=P	Location	(e.g. clay, sand, los sandy loam
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? ed Data (strea beta (strea continuous stream) beta (stream) beta (st	Yes No Manager, monitor No	Depth: ing well, ae ccasionalli indicator or confirm Color 10YR	y flooded the absence of Marinx (Moist) 4/2 cators ar	(in.) s, previous indicators) (Type % 100 e not pre	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	% Features %	Type s for Probler	Location	(e.g. clay, sand, los sandy loam
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric 3	ent? ed Data (strea bition (Describe to the Bottom Depth 16 Soil Field Ind A1- Histosol A2 - Histic Epi	Yes No Manager No Mana	Depth: ing well, ae ccasionalli indicator or confirm Color 10YR	y flooded the absence of Matrix (Moist) 4/2	(in.) s, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S	Location	(e.g. clay, sand, lo
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ent? ed Data (strea et al. (strea	Yes No Manager No Mana	Depth: ing well, ae ccasionalli indicator or confirm Color 10YR	y flooded the absence of Marinx (Moist) 4/2 cators ar	(in.) s, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	% Features %	Type s for Probler A16 - Coasts S7 - Dark S F12 - Iron-N	Location	(e.g. clay, sand, lo
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip	ent? ed Data (strea bition (Describe to the Bottom Depth 16 Soil Field Ind A1- Histosol A2 - Histic Epi	Yes No Manager, monitor Stonelick loam, or depth needed to document the Horizon 1 licators (check has pedon tic Sulfide	Depth: ing well, ae ccasionalli indicator or confirm Color 10YR	y flooded the absence of Matrix (Moist) 4/2 cators ar	(in.) s, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, lo
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	ent? ed Data (strea b: Sotion (Describe to the Bottom Depth 16	Yes No m gauge, monitor Stonelick loam, o depth needed to document the Horizon 1 licators (check loam) Stonelick loam, o depth needed to document the Horizon 1 Stonelick loam, o	Depth: ing well, ae ccasionalli indicator or confirm Color 10YR	y floodec the absence of Matrix (Moist) 4/2 cators ar	(in.) s, previous	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, lo
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ent? ed Data (strea btion (Describe to the Bottom Depth 16	Yes No m gauge, monitor Stonelick loam, o depth needed to document the Horizon 1 licators (check for pedon tic Sulfide Layers tok depth selden bark Surfa	Depth: ing well, ae ccasionall indicator or confirm Color 10YR nere if indic	y floodec the absence of Matrix (Moist) 4/2 cators ar	(in.) s, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)): Matrix K rface	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, lo
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric S	ent? ed Data (strea bition (Describe to the Bottom Depth 16	Yes No m gauge, monitor Stonelick loam, or depth needed to document the Horizon 1 licators (check fi pedon tic Sulfide Layers tok d Below Dark Surfa ark Surface	Depth: ing well, ae ccasionall indicator or confirm Color 10YR nere if indic	y flooded the absence of Matrix (Moist) 4/2 cators ar	(in.) s, previous indicators) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very	Location	(e.g. clay, sand, lo
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	ent? ed Data (strea betton (Describe to the Bottom Depth 16	Yes No m gauge, monitor Stonelick loam, or depth needed to document the Horizon 1 licators (check has been been been been been been been bee	Depth: ing well, ae ccasionall indicator or confirm Color 10YR nere if indic	y floodec the absence of Matrix (Moist) 4/2 cators ar	(in.) s, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expl.	Location	(e.g. clay, sand, lo sandy loam
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	ent? ed Data (strea betton (Describe to the Bottom Depth 16	Yes No m gauge, monitor Stonelick loam, or depth needed to document the Horizon 1 licators (check fi pedon tic Sulfide Layers tok d Below Dark Surfa ark Surface	Depth: ing well, ae ccasionall indicator or confirm Color 10YR nere if indic	y flooded the absence of Matrix (Moist) 4/2 cators ar	(in.) s, previous indicators) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	Type s for Probler A16 - Coasts S7 - Dark S F12 - Iron-N TF12 - Very Other (Expl.	Location	(e.g. clay, sand, lo
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	eent? ed Data (strea et a Da	Yes No m gauge, monitor Stonelick loam, o depth needed to document the Horizon 1 licators (check fi pedon tic Sulfide Layers tok d Below Dark Surfa ark Surface tok Mineral ky Peat or Peat	Depth: ing well, ae ccasionall indicator or confirm Color 10YR nere if indicator	y flooder the absence of Matrix (Moist) 4/2 cators ar	(in.) s, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)): Matrix K rface Surface sions	ox Features %	Type Type s for Probler A16 - Coasts S7 - Dark S F12 - Iron-N TF12 - Very Other (Expl:	Location	es urface
Saturation Pres Describe Recordo Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	eent? ed Data (strea et a Da	Yes No m gauge, monitor Stonelick loam, o depth needed to document the Horizon 1 licators (check fi pedon tic Sulfide Layers tok d Below Dark Surfa ark Surface tok Mineral ky Peat or Peat	Depth: ing well, ae ccasionall indicator or confirm Color 10YR nere if indicator	y flooder the absence of Matrix (Moist) 4/2 cators ar	(in.) s, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	Type Type s for Probler A16 - Coasts S7 - Dark S F12 - Iron-N TF12 - Very Other (Expl:	Location	es urface
Saturation Pres Describe Recordo Remarks: OILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	eent? ed Data (strea et a Da	Yes No m gauge, monitor Stonelick loam, o depth needed to document the Horizon 1 licators (check fi pedon tic Sulfide Layers tok d Below Dark Surfa ark Surface tok Mineral ky Peat or Peat	Depth: ing well, ae ccasionall indicator or confirm Color 10YR nere if indicator	y flooder the absence of Matrix (Moist) 4/2 cators ar	(in.) s, previous indicators.) (Type % 100	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)): Matrix K rface Surface sions	ox Features %	Type Type s for Probler A16 - Coasts S7 - Dark S F12 - Iron-N TF12 - Very Other (Expl:	Location	es urface



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 14 Sample Point: SP 34 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Platanus occidentalis 5 **FACW** 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. __ 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 5 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 100 (A) 213 (B) --4. 5. Prevalence Index = B/A = 2.130 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = □ No Prevalence Index is ≤ 3.0 * ¥ Yes □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Phalaris arundinacea 70 **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Verbena hastata 10 Ν **FACW** present, unless disturbed or problematic. 3. 5 Ν FACU Achillea millefolium 5 Ν **FACW Definitions of Vegetation Strata:** 4. Solidago gigantea FAC 5. Alliaria petiolata Ν 6 Verbesina alternifolia 2 Ν **FACW** Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 __ 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 95 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:			



Are Vegetation Are Vegetation SUMMARY OF Hydrophytic Ve	American E Kate Boma Fox gravelly Side slope 2 drologic cond , Soil , So	y loam, 18-25% slo Latitude itions on the site ty or Hydrology rightary r	opes, ero : 40.25431 /pical for gnificantly	Investided Loc Loc this time y disturberoblemati	cal Relief: congitude: cof year? ed? ic?	Linear -82.506	IWI/WWI Classification:	Datum: Yes □ nces present? No Hydric Soils	Present?	Date: County: State: Wetland ID: Sample Point: Community ID: Section: Township: Range:	UPL
Wetland Hydrol Remarks:	ogy Present	?		□ Yes	□ No			Is This Samp	oling Point	Within A Wetla	and? • Yes • No
HYDROLOGY Wetland Hydr	A1 - Surface A2 - High Wa A3 - Saturatio	iter Table on	f indicato		B9 - Wate B13 - Aqu B14 - Tru	er-Stained uatic Fauna e Aquatic l	a Plants			B6 - Surface So B10 - Drainage C2 - Dry-Seaso	Patterns n Water Table
0		nt Deposits posits nt or Crust			C3 - Oxid C4 - Pres C6 - Rece C7 - Thin D9 - Gau	ence of Re	spheres on Living Roots educed Iron duction in Tilled Soils ace Data			C8 - Crayfish Bu C9 - Saturation D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutr	Visible on Aerial Imagery Stressed Plants ic Position
Field Observat Surface Water Water Table Pr Saturation Pres	Present? esent? ent?	□ Yes ☑ No □ Yes ☑ No □ Yes ☑ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hy		esent? ¬	Yes □ No
Describe Record	ed Data (stre	am gauge, monitorin	ıg well, ae	rial photo	s, previou	s inspecti	ons). if available:		N/A		
I .							,,				
Remarks:						<u>'</u>	,				
SOILS			10.05%			·	,				
SOILS Map Unit Name		Fox gravelly loam,				·			in Laurina DI-D		
SOILS Map Unit Name Profile Descrip				n the absence of	f indicators.) (Typ	·	ion, D=Depletion, RM=Reduced Matrix, CS=0		ins; Location: PL=Pc	ore Lining, M=Matrix)	Texture
SOILS Map Unit Name	otion (Describe to the		dicator or confirm		f indicators.) (Typ	·	ion, D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra DX Features %	ins; Location: PL=Po	ore Lining, M=Matrix) Location	Texture (e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip	Bottom (Describe to the	ne depth needed to document the in	dicator or confirm	n the absence of Matrix	f indicators.) (Typ	·	ion, D=Depletion, RM=Reduced Matrix, CS=CRED	ox Features	ı	T	
SOILS Map Unit Name Profile Descrip Top Depth	Bottom Depth	Horizon	dicator or confirm	Matrix (Moist)	f indicators.) (Typ	e: C=Concentral	ion, D=Depletion, RM=Reduced Matrix, CS= Red (Color (Moist)	ox Features %	Type	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip Top Depth 0 3	Bottom Depth 3 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/4 3/3	% 100 100	ee: C=Concentral	ion, D=Depletion, RM=Reduced Matrix, CS= Red of Color (Moist)	% Features %	Type 	Location 	(e.g. clay, sand, loam) sandy loam sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 3	Bottom Depth 3 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/4 3/3	% 100 100	ee: C=Concentral	ion, D=Depletion, RM=Reduced Matrix, CS= Red of Color (Moist)	%	Type	Location	(e.g. clay, sand, loam) sandy loam sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 3	Bottom Depth 3 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/4 3/3	% 100 100	ve: C=Concentral	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	x Features	Type	Location	(e.g. clay, sand, loam) sandy loam sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 3	Depth Bottom Depth 3 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/4 3/3	% 100 100	se: C=Concentral	on, D=Depletion, RM=Reduced Matrix, CS= Red of Color (Moist)		Type	Location	(e.g. clay, sand, loam) sandy loam sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 3	Bottom Depth 3 16	Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/4 3/3	% 100 100	ve: C=Concentral	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	x Features	Type	Location	(e.g. clay, sand, loam) sandy loam sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 3	Bottom Depth 3 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M	Horizon 1 2 dicators (check hebipedon stic in Sulfide I Layers uck de Below Dark Surface luck Mineral	Color 10YR 10YR	m the absence of Matrix (Moist) 3/4 3/3	% 100 100	ee C=Concentral	on, D=Depletion, RM=Reduced Matrix, CS=Color (Moist)	ox Features %	Type	Location	(e.g. clay, sand, loam) sandy loam sandy loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 3 NRCS Hydric	Bottom Depth 3 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M	Horizon 1 2 dicators (check he objection is Sulfide It Layers uck and Below Dark Surface bark Surface bark Surface	Color 10YR 10YR	nthe absence of Matrix (Moist) 3/4 3/3 cators ar	% 100 100	ee: C=Concentral	on, D=Depletion, RM=Reduced Matrix, CS=Color (Moist)	ox Features %	Type for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) sandy loam sandy loam



5.

Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 14 Sample Point: SP 35 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = FAC spp. x 3 = 60 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. _ 45 180 Acer negundo 5 FAC UPL spp. x 5 = 2 3. Total 105 (A) 320 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Verbesina alternifolia **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Achillea millefolium 10 Ν **FACU** present, unless disturbed or problematic. 3. 5 Ν FAC Alliaria petiolata Solidago canadensis 15 **FACU Definitions of Vegetation Strata:** 4. FACU 5. Schedonorus arundinaceus 10 Ν 6 Dipsacus fullonum 10 Ν **FACU** Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. FAC 7. Plantago major 10 Ν 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4.

Additional Remarks:								

Total Cover =

0



Project/Site:	North Newark	- Sharp Road 138 kV Tr	ansmission	n Line Rebi	uild Project		Stantec Project #:	193707328		Date:	01/02/20
Applicant:	American E	Electric Power (AEF	P)							County:	Licking
Investigator #1:	Kate Boma	ır		Investi	gator #2:	Matt De	nzler			State:	Ohio
Soil Unit:	Centerburg	silt loam, 2-6% slo	pes			١	IWI/WWI Classification	n: none		Wetland ID:	Wetland 15
Landform:	Plain	, , , , , , , , , , , , , , , , , , ,		Loc	al Relief:	Concave)			Sample Point:	SP 36
Slope (%):	0	Latitude	. 40 384383		ongitude:			Datum:	WGS 84	Community ID:	
		ditions on the site ty						☑ Yes □	No	Section:	N/A
		or Hydrology □ sig				(II IIO, expia	Are normal circumsta			Township:	N/A
							□ Yes	•			
Are vegetation	, Soll ¹ ,	or Hydrology <a> n	ituraliy pi	robiemat	IC?		Tes	N∌		Range:	N/A Dir: N/A
SUMMARY OF											
Hydrophytic Ve				Yes				Hydric Soils			Yes No
Wetland Hydro	logy Present	?		Yes	□ No			Is This Samp	oling Point '	Within A Wetla	and? • Yes • No
Remarks:											
HYDROLOGY											
_		ators (Check here i	f indicate	ors are n	ot presen	t □):					
<u>Primary</u>									Secondary:		
	A1 - Surface				B9 - Wate					B6 - Surface Sc	
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
	A3 - Saturation				B14 - Tru					C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydr				_	C8 - Crayfish B	
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						duced Iron				Stressed Plants
	B4 - Algal Ma						duction in Tilled Soils		☑	D2 - Geomorph	
	B5 - Iron Dep	อดรแร on Visible on Aerial Im			C7 - Thin D9 - Gaug					D5 - FAC-Neutr	ai rest
		y Vegetated Concave			Other (Ex						
_	Bo - Sparser	y vegetated Concave	Suriace		Other (EX	piaiii iii re	iliaiks)				
Field Observed											
Field Observat											
Surface Water		□ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Water Table Pr	esent?	Yes No	Depth:		(in.)						
Saturation Pres	ent?	□ Yes □ No	Depth:		(in.)						
Describe Record	ed Data (stre	am gauge, monitorin	a well oc	rial photo	o proviou	o inonocti	one) if available:		N/A		
Describe recoord	ca Data (Sile										
Damandan		am gaago, momoni	ig well, at	nai prioto	s, previou	s mspecii	ons), ii avaliable.		N/A		
Remarks:		am gaago, montoni	ig weii, ae	nai prioto	is, previou	s irispeciii	ons), ii avaliable.		N/A		
		am gaage, memeri	ig weii, ae	mai prioto	s, previou	s mspecu	nis), ii avaliabie.		N/A		
Remarks:		am gaage, memem	ig well, ae	пагрпою	s, previou	s irispeciii	nis), ii avaliabie.		N/A		
SOILS Map Unit Name		Centerburg silt loa	m, 2-6%	slopes		·	,				
SOILS Map Unit Name		Centerburg silt loa	m, 2-6%	slopes		·	,	=Covered/Coated Sand Grai		ore Lining, M=Matrix)	
SOILS Map Unit Name Profile Descrip		Centerburg silt loa	m, 2-6%	slopes	findicators.) (Typ	·	on, D=Depletion, RM=Reduced Matrix, CS-			ore Lining, M=Matrix)	Texture
SOILS Map Unit Name Profile Descrip Top	Bottom	Centerburg silt loa	m, 2-6%	slopes n the absence of Matrix	f indicators.) (Typ	·	on, D=Depletion, RM=Reduced Matrix, CS: Rec	dox Features	ins; Location: PL=Po	T	
SOILS Map Unit Name Profile Descrip Top Depth	Bottom Depth	Centerburg silt loa the depth needed to document the in Horizon	m, 2-6% dicator or confirm	slopes In the absence of Matrix (Moist)	indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS- Rec Color (Moist)	dox Features %	ins; Location: PL=Pe	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	Centerburg silt loa the depth needed to document the in Horizon	m, 2-6% dicator or confirm Color 10YR	slopes m the absence of Matrix (Moist) 3/1	findicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist)	dox Features % 	ins; Location: PL=Pe Type	Location 	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Profile Descrip Top Depth	Bottom Depth 2 12	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirm	slopes In the absence of Matrix (Moist) 3/1 4/1	% 100 80	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	% 20	ins; Location: PL=Pe	Location M	(e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	Centerburg silt loa the depth needed to document the in Horizon	m, 2-6% dicator or confirm Color 10YR	slopes m the absence of Matrix (Moist) 3/1	findicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist)	dox Features % 	ins; Location: PL=Pe Type	Location 	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Profile Descrip Top Depth 0 2	Bottom Depth 2 12	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirm Color 10YR	slopes In the absence of Matrix (Moist) 3/1 4/1	% 100 80	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	% 20	Type	Location M	(e.g. clay, sand, loam) silt loam clay loam
SOILS Map Unit Name Profile Descrip Top Depth 0 2	Bottom Depth 2 12	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirm Color 10YR 10YR	slopes In the absence of Matrix (Moist) 3/1 4/1	% 100 80	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	% 20	Type C	Location M	(e.g. clay, sand, loam) silt loam clay loam
SOILS Map Unit Name Profile Descrip Top Depth 0 2	Bottom (Depth 2 12	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirm Color 10YR 10YR	slopes m the absence of Matrix (Moist) 3/1 4/1	% 100 80	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	% 20	Type C	Location M	(e.g. clay, sand, loam) silt loam clay loam
SOILS Map Unit Name Profile Descrip Top Depth 0 2	Depth Depth 2 12	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirmation of the confirm	slopes n the absence of Matrix (Moist) 3/1 4/1	% 100 80	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	% 20	Type C	Location M	(e.g. clay, sand, loam) silt loam clay loam
SOILS Map Unit Name Profile Descrip Top Depth 0 2	Bottom Depth 2 12	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirm Color 10YR 10YR	Slopes n the absence of Matrix (Moist) 3/1 4/1	% 100 80	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	% 20	Type C	Location M	(e.g. clay, sand, loam) silt loam clay loam
SOILS Map Unit Name Profile Descrip Top Depth 0 2	Dotton (Describe to Bottom Depth 2 12	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% Color 10YR 10YR	slopes n the absence of Matrix (Moist) 3/1 4/1	% 100 80 	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	% 20	Type C	Location M	(e.g. clay, sand, loam) silt loam clay loam
SOILS Map Unit Name Profile Descrip Top Depth 0 2	Dition (Describe to Bottom Depth 2 12 Soil Field In	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% Color 10YR 10YR	slopes m the absence of Matrix (Moist) 3/1 4/1 cators al	% 100 80 re not pre	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	% 20	Type C s for Problem	Location M	(e.g. clay, sand, loam) silt loam clay loam
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Dotton (Describe to Bottom Depth 2 12	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% Color 10YR 10YR	slopes n the absence of Matrix (Moist) 3/1 4/1	% 100 80 re not pressed - Sanco	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	% 20	Type C 5 for Problem	Location M Prairie Redox	(e.g. clay, sand, loam) silt loam clay loam
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Dition (Describe to Bottom Depth 2 12 Soil Field In	Centerburg silt loa the depth needed to document the in Horizon 1 2 adicators (check he	m, 2-6% Color 10YR 10YR	slopes n the absence of Matrix (Moist) 3/1 4/1 cators al	% 100 80 re not pre \$4 - Sanc \$5 - Sa	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	% 20	Type C s for Problem	Location M Prairie Redox	(e.g. clay, sand, loam) silt loam clay loam
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Dition (Describe to: Bottom Depth 2 12 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi	Centerburg silt loa the depth needed to document the in Horizon 1 2 adicators (check he	m, 2-6% Color 10YR 10YR	slopes n the absence of Matrix (Moist) 3/1 4/1 cators at	% 100 80 re not pre \$4 - Sanc \$6 - Strip.	e: C=Concentrat	n, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6): Matrix	dox Features % 20 Indicators	Type C for Problen A16 - Coast S7 - Dark St F12 - Iron-N	Location M	(e.g. clay, sand, loam) silt loam clay loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Dition (Describe to Describe to Depth 2 12 Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge	Centerburg silt loa the depth needed to document the in Horizon 1 2 adicators (check he pipedon istic en Sulfide	m, 2-6% Color 10YR 10YR	slopes nthe absence of Matrix (Moist) 3/1 4/1 cators al	% 100 80 er not pre \$4 - Sanc \$5 - Sanc \$6 - Strip F1 - Loan	e: C=Concentrat	n, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6 : Matrix neral		Type C s for Problen A16 - Coast S7 - Dark Si T12 - Iron-M TF12 - Very	Location M	(e.g. clay, sand, loam) silt loam clay loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Dition (Describe to Depth 2 12	Centerburg silt loa the depth needed to document the in Horizon 1 2 adicators (check here) sistic en Sulfide d Layers	m, 2-6% Color 10YR 10YR	slopes m the absence of Matrix (Moist) 3/1 4/1 cators al	% 100 80	e: C=Concentrat	con, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	dox Features % 20 Indicators	Type C s for Problen A16 - Coast S7 - Dark Si T12 - Iron-M TF12 - Very	Location M	(e.g. clay, sand, loam) silt loam clay loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Detion (Describe to: Bottom Depth 2 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M	Centerburg silt loa the depth needed to document the in Horizon 1 2 adicators (check he pipedon istic citics constitute d Layers duck	m, 2-6% dicator or confirmation of the confirm	slopes n the absence of Matrix (Moist) 3/1 4/1 cators all	% 100 80	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS- Rec Color (Moist) 5/6 Matrix neral Matrix		Type C s for Problen A16 - Coast S7 - Dark Si T12 - Iron-M TF12 - Very	Location M	(e.g. clay, sand, loam) silt loam clay loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Dition (Describe to: Bottom Depth 2 12 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	Centerburg silt loa the depth needed to document the in Horizon 1 2 adicators (check he pipedon istic en Sulfide dd Layers fluck ed Below Dark Surface	m, 2-6% dicator or confirmation of the confirm	slopes In the absence of Matrix (Moist) 3/1 4/1 cators ar	% 100 80 re not pre S5 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc	e: C=Concentrat	con, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6): Matrix neral Matrix : face		Type C s for Problen A16 - Coast S7 - Dark Si F12 - Iron-M TF12 - Very	Location M	(e.g. clay, sand, loam) silt loam clay loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Describe to: Bottom Depth 2 12 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A11 - Deplet A12 - Thick I	Centerburg silt loa the depth needed to document the in Horizon 1 2 dicators (check he pipedon istic en Sulfide d Layers fluck ed Below Dark Surface Dark Surface	m, 2-6% dicator or confirmation of the confirm	slopes n the absence of Matrix (Moist) 3/1 4/1 cators al	% 100 80	e: C=Concentrat	n, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6		Type C s for Problen A16 - Coast S7 - Dark Si F12 - Iron-M TF12 - Very	Location M	(e.g. clay, sand, loam) silt loam clay loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Position (Describe to Describe	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirmation of the confirm	slopes In the absence of Matrix (Moist) 3/1 4/1 cators ar	% 100 80	e: C=Concentrat	n, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	dox Features % 20 Indicators	Type C s for Problen A16 - Coast S7 - Dark S7 TF12 - Iron-M TF12 - Very Other (Explain	Location M	(e.g. clay, sand, loam) silt loam clay loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Position (Describe to Describe	Centerburg silt loa the depth needed to document the in Horizon 1 2 dicators (check he pipedon istic en Sulfide d Layers fluck ed Below Dark Surface Dark Surface	m, 2-6% dicator or confirmation of the confirm	slopes n the absence of Matrix (Moist) 3/1 4/1 cators al	% 100 80	e: C=Concentrat	n, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	dox Features % 20 Indicators	Type C s for Problen A16 - Coast S7 - Dark S7 TF12 - Iron-M TF12 - Very Other (Explain	Location M	(e.g. clay, sand, loam) silt loam clay loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Position (Describe to: Bottom Depth 2 12 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirmation of the confirm	slopes n the absence of Matrix (Moist) 3/1 4/1 cators al	% 100 80	e: C=Concentrat	n, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	dox Features % 20 Indicators	Type C sfor Problen A16 - Coast F12 - Iron-N TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam) silt loam clay loam es
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Position (Describe to Describe	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirmation of the confirm	slopes n the absence of Matrix (Moist) 3/1 4/1 cators al	% 100 80	e: C=Concentrat	n, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	dox Features % 20 Indicators Indicators of hydrophyte	Type C sfor Problen A16 - Coast F12 - Iron-N TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam) silt loam clay loam es urface
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Position (Describe to: Bottom Depth 2 12 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirmation of the confirm	slopes n the absence of Matrix (Moist) 3/1 4/1 cators al	% 100 80	e: C=Concentrat	n, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	dox Features % 20 Indicators Indicators of hydrophyte	Type C sfor Problen A16 - Coast F12 - Iron-N TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam) silt loam clay loam es urface
SOILS Map Unit Name Profile Descrip Top Depth 0 2 NRCS Hydric	Position (Describe to: Bottom Depth 2 12 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Centerburg silt loa the depth needed to document the in Horizon 1 2	m, 2-6% dicator or confirmation of the confirm	slopes n the absence of Matrix (Moist) 3/1 4/1 cators al	% 100 80	e: C=Concentrat	n, D=Depletion, RM=Reduced Matrix, CS: Rec Color (Moist) 5/6	dox Features % 20 Indicators Indicators of hydrophyte	Type C sfor Problen A16 - Coast F12 - Iron-N TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam) silt loam clay loam es urface



2

3. 4. 5.

Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 15 Sample Point: SP 36 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) 3. 4. Total Number of Dominant Species Across All Strata: 4 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9. __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Salix nigra 20 **OBL** UPL spp. x 5 = 2. **FACW** Cornus amomum 40 3. Total 160 (A) 215 (B) 4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Juncus effusus 15 Ν **OBL** * Indicators of hydric soil and wetland hydrology must be 2. 30 **OBL** Scirpus cyperinus present, unless disturbed or problematic. 3. 10 Ν **OBL** Epilobium coloratum 4. 15 Ν **FACW Definitions of Vegetation Strata:** Solidago gigantea 5. Leersia oryzoides 30 **OBL** 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. __ 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius)

Additional Remarks:		

Total Cover =

0

Hydrophytic Vegetation Present Yes No



 	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	dicators (check hoppedon stic no Sulfide de Layers luck and Below Dark Surface Dark Surface luck Mineral lucky Peat or Peat		cators an		sent y Gleyed y Redox y Muck M ny Gleyed eted Matrix x Dark Su eted Dark): Matrix Ineral Matrix Inface Surface	Indicators	A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla	langanese Massr Shallow Dark St ain in Remarks)	ırface
NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifies A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm Mu	dicators (check hoppedon stic stic stayers luck ed Below Dark Surface fuck Mineral	 ere if indic	cators a	re not pre S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo	sent y Gleyed y Redox y Muck M ny Gleyed eted Matrix x Dark Su eted Dark): Matrix Ineral Matrix Inface Surface	Indicators			es urface
 NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	dicators (check hoppedon stic stic stayers luck ed Below Dark Surface fuck Mineral	 ere if indic	cators a	re not pre S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo	sent y Gleyed y Redox y Muck M ny Gleyed eted Matrix x Dark Su eted Dark): Matrix Ineral Matrix Inface Surface	Indicators			 es urface
 NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M	dicators (check hoppedon stic no Sulfide d Layers luck	 ere if indic	cators a	re not pre S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple	sent y Gleyed y Redox ped Matrix y Muck M y Gleyed eted Matrix): Matrix Ineral Matrix	Indicators	 		
 NRCS Hydric	 Soil Field In A1- Histosol	 dicators (check he		 cators a	re not pre	 sent ☑ ly Gleyed):	 Indicators	 for Problem A16 - Coast	natic Soils ¹ Prairie Redox	
			+								
			+								
								+		1	1
									i		
		-									
											
Depth 0	Depth 16	Horizon 1	Color 10YR	(Moist) 5/3	100		Color (Moist)	% 	Type 	Location 	(e.g. clay, sand, loam) silty clay loam
Top	Bottom	Hari	0-1-	Matrix	1			ox Features	T	1	Texture
		he depth needed to document the in	dicator or confirm			e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Grai	ins; Location: PL=P	ore Lining, M=Matrix)	
Map Unit Name	e:	Centerburg silt loa	m, 2-6%	slopes							
SOILS											
Remarks:	aca Data (Sile	am gaage, monitorii	9 WCII, ACI	nai prioto	o, previou	o moheom	onoj, ii avaliabie.		. 47.5		
Surface Water Water Table Pr Saturation Pres	Present? resent? sent?	□ Yes □ No □ Yes □ No □ Yes □ No am gauge, monitorir	Depth: Depth:	rial photo	(in.) (in.) (in.)	e inenati	one) if available:	Wetland Hy	drology Pr	resent?	Yes □ No
Primary	A1 - Surface A2 - High Wa A3 - Saturatic B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatic	ater Table on larks nt Deposits posits at or Crust	nagery	rs are n	B9 - Wate B13 - Aqu B14 - True C1 - Hydr C3 - Oxidi C4 - Pres	er-Stained latic Fauna e Aquatic I ogen Sulfi ized Rhizo ence of Re ent Iron Re Muck Surf ge or Well	Plants Je Odor spheres on Living Roots duced Iron duction in Tilled Soils ace Data		Secondary:	B6 - Surface So B10 - Drainage C2 - Dry-Seaso C8 - Crayfish Bi C9 - Saturation	Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants ic Position
LIVEROLOGY											
Remarks:	logy Present	!		- res	ino ino			is this samp	oling Point	within A wetta	and? • Yes • No
Hydrophytic Ve Wetland Hydro				□ Yes				Hydric Soils		Mithin A Motle	□ Yes □ No and? ■ Yes □ No
SUMMARY OF		or riyarology he	turuny pr	орістта	10:					rtange.	TWA DII. TWA
Are Vegetation	□ , Soil □ , □ Soil □	or Hydrology □ sigor Hydrology <u>□ na</u>	gnificantly sturally pr	/ disturb oblemat	ed? ic?		Are normal circumsta Yes	nces present?	,	Township: Range:	N/A N/A Dir: N/A
		litions on the site to				(If no, expla		☑ Yes □	No	Section:	N/A
Slope (%):	0	Latitude	40.26421		ongitude:		924	Datum:	WGS 84	Community ID:	
Landform:	Centerburg Terrace	silt loam, 2-6% slo	ppes	Loc	al Relief:		IWI/WWI Classification:	none		Wetland ID: Sample Point:	Wetland 15
Soil Unit:	: Kate Boma	r `	<u> </u>	Investi	gator #2:					State:	Ohio
Investigator #1		Electric Power (AEF		Line Reb	uild Project		Stantec Project #:	193707328		Date: County:	01/02/20 Licking
		- Sharp Road 138 kV Ti					0' ' D' ' '	400707000		D (04/00/00



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 15 Sample Point: SP 37 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: ____0%___ (A/B) 6. 7. **Prevalence Index Worksheet** 8. 9. __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. _ 30 Rubus allegheniensis 15 **FACU** UPL spp. x 5 = 2 3. Total 30 (A) 120 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation □ No 10 --□ Yes Dominance Test is > 50% Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Setaria faberi 15 **FACU** * Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 15 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present

Yes

No 3. 4. 5.

Additional Remarks:	

Total Cover =

Remarks:

0



Project/Site:	North Newark-	- Sharp Road 138 kV T	ransmissior	Line Rebu	uild Project		Stantec Project #:	193707328		Date:	01/02/20
Applicant:	American E	lectric Power (AE	P)							County:	Knox
Investigator #1	Nathan Nol	and	,	Investi	gator #2:	Rohini \	/embar			State:	Ohio
Soil Unit:		ım, 0-3% slopes, occas	sionally floor		gate: #21		WI/WWI Classification	n·		Wetland ID:	Wetland 16
Landform:	Terrace	iiii, 0-3 // siopes, occas	sionally 11000		al Relief:					Sample Point:	
		1 -44						Detum	MCC 04		
Slope (%):	1		e: 40.27279		ongitude:				WGS 84	Community ID:	
		itions on the site t				(If no, expla		Yes □	_No	Section:	N/A
Are Vegetation	n ,Soil ,,	or Hydrology 🗆 s	ignificantly	y disturb	ed?		Are normal circumst	ances present?	?	Township:	N/A
Are Vegetation	n , Soil , o	or Hydrology 🖳 n	aturally pr	oblemat	ic?		Yes	NÐ		Range:	N/A Dir: N/A
SUMMARY OF		, 0,	, ,								
Hydrophytic Ve		cont2		□ Yes	□ No			Hydric Soils	Procent?		□ Yes □ No
				□ Yes						\A/:+l=:	
Wetland Hydro	ology Present	!		□ Yes	□ No			is this Samp	oling Point	within A wetia	and? • Yes • No
Remarks:											
HYDROLOGY											
Metland Hud		tara (Chaali hara	if in dia ata			+ \-					
_		itors (Check here	it indicate	ors are no	ot presen	it 🗆):					
Primary		10/-4			DO 14/-4-	C4-iI	Lagran		Secondary:		il One else
	A1 - Surface					er-Stained				B6 - Surface So	
	A2 - High Wa A3 - Saturation			_		uatic Fauna e Aquatic∃				B10 - Drainage C2 - Dry-Seaso	
	B1 - Water M					ogen Sulfi				C8 - Crayfish B	
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imager
	B3 - Drift Dep						educed Iron				Stressed Plants
	B4 - Algal Ma			_			duction in Tilled Soils		□	D2 - Geomorph	
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neuti	
₽.		on Visible on Aerial Ir	magery			ge or Well				DO 1710 11041	ai root
		Vegetated Concave				plain in Re					
	, ,				,		,				
Field Observa	tione:										
					<i>(</i> ,)						
Surface Water		□ Yes □ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes □ No
Water Table P		□ Yes □ No	Depth:	surface	(in.)			•			
Saturation Pres	sent?	Yes □ No	Depth:	surface	(in.)						
Describe Record	ded Data (etre	am gauge monitori	na well ae	rial nhoto	e previou	e inenacti	one) if available:		N/Δ		
	ded Data (stre	am gauge, monitori	ng well, ae	rial photo	s, previou	s inspecti	l ons), if available:		N/A		
Describe Record Remarks:	ded Data (stre	am gauge, monitori	ng well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	ded Data (stre	am gauge, monitori	ng well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
	ded Data (stre	am gauge, monitori	ng well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	,			·		·	lons), if available:		N/A		
Remarks: SOILS Map Unit Name	e:	Lobdell silt loam,	0-3% slop	es, occa	asionally f	flooded	,	k=Couseed/Coated Sand Gra		ore Lining M=Matrix)	
Remarks: SOILS Map Unit Name Profile Descri	e: ption (Describe to the	Lobdell silt loam,	0-3% slop	Des, occa	asionally f	flooded	iion, D=Depletion, RM=Reduced Matrix, CS			ore Lining, M=Matrix)	Taytura
Remarks: SOILS Map Unit Name Profile Descri	e: ption (Describe to the Bottom	Lobdell silt loam,	0-3% slop	Des, occa in the absence of Matrix	asionally f	flooded	ion, D=Depletion, RM=Reduced Matrix, CS Rec	dox Features	ins; Location: PL=P	T	Texture
Remarks: SOILS Map Unit Name Profile Descrit Top Depth	e: ption (Describe to the Bottom Depth	Lobdell silt loam, he depth needed to document the Horizon	0-3% slop	es, occa n the absence of Matrix (Moist)	asionally f	Flooded De: C=Concentral	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	ins; Location: PL=P	Location	(e.g. clay, sand, loa
Remarks: SOILS Map Unit Name Profile Descri	e: ption (Describe to the Bottom	Lobdell silt loam,	0-3% slop	Des, occa in the absence of Matrix	asionally f	flooded	ion, D=Depletion, RM=Reduced Matrix, CS Rec	dox Features	ins; Location: PL=P	T	4
Remarks: SOILS Map Unit Name Profile Descrit Top Depth	e: ption (Describe to the Bottom Depth	Lobdell silt loam, he depth needed to document the Horizon	0-3% slop	es, occa n the absence of Matrix (Moist)	asionally f	Flooded De: C=Concentral	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist)	dox Features %	ins; Location: PL=P	Location	(e.g. clay, sand, loa
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: ption (Describe to the Bottom Depth 16	Lobdell silt loam, he depth needed to document the Horizon	0-3% slop indicator or confirm Color 10YR	pes, occa m the absence of Matrix (Moist) 4/2	esionally findicators.) (Typ	Flooded e: C=Concentral 7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	dox Features % 5	ins; Location: PL=P Type C	Location PL	(e.g. clay, sand, loa
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: ption (Describe to 8 Bottom Depth 16	Lobdell silt loam, ne depth needed to document the Horizon	0-3% slop indicator or confirm Color 10YR	Des, occa the absence of Matrix (Moist) 4/2	esionally f	Flooded e: C=Concentrat 7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	% 5	Type C	Location PL 	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: ption (Describe to 8 Bottom Depth 16	Lobdell silt loam, ne depth needed to document the Horizon	0-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2	% 95	Flooded Per C=Concentral 7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	% 5	Type C	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: ption (Describe to 8 Bottom Depth 16	Lobdell silt loam, ne depth needed to document the Horizon	0-3% slop indicator or confirm Color 10YR	Des, occa the absence of Matrix (Moist) 4/2	esionally f	7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	% 5	Type C	Location PL 	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: Ption (Describe to 8 Bottom Depth 16	Lobdell silt loam, ne depth needed to document the Horizon	0-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2	% 95	Flooded Per C=Concentral 7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	% 5	Type C	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: Ption (Describe to the Bottom Depth 16	Lobdell silt loam, ne depth needed to document the Horizon	0-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2	ssionally f (Typ) % 95	7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	% 5	ins; Location: PL=P Type C	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: Ption (Describe to the sound of the scribe to the sound of the scribe to the sound of the scribe to the scribe	Lobdell silt loam, ne depth needed to document the Horizon	0-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2	ssionally f (Typ 96 95	Flooded e: C=Concentral 7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	% 5	ins; Location: PL=P	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: Ption (Describe to II Bottom Depth 16	Lobdell silt loam, ne depth needed to document the Horizon	O-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2	sionally f indicators.) (Typ	7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	% 5	Type C	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Potion (pescribe to II Bottom Depth 16 Soil Field In	Lobdell silt loam, ne depth needed to document the Horizon	O-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	% 95	7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	% 5	Type C s for Probler	Location	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: Ption (Describe to II Bottom Depth 16 Soil Field In A1- Histosol	Lobdell silt loam, he depth needed to document the Horizon dicators (check h	O-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	ssionally f % 95 e not pressed	7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	% 5	Type C for Probler	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Bottom Depth	Lobdell silt loam, he depth needed to document the Horizon dicators (check hoppedon	O-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	ssionally fundicators.) (Type % 95	7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	dox Features % 5 Indicators	ins; Location: PL=P Type C 5 for Probler A16 - Coast S7 - Dark S	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Poin (Describe to 1) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His	Lobdell silt loam, ne depth needed to document the Horizon dicators (check hoppedon stic	O-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	ssionally f indicators.) (Typ 95 95	Flooded ### C=Concentral 7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	dox Features % 5	ins; Location: PL=P Type C 5 for Probler A16 - Coast S7 - Dark S F12 - Iron-N	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Lobdell silt loam, ne depth needed to document the Horizon dicators (check hoppedon stic n Sulfide	O-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	% 95 -	7.5YR 7.5YR seent □ ty Gleyed ty Redox ped Matrix ny Muck M	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	% 5	Type C 5 for Probler A16 - Coast S7 - Dark S TF12 - Iron-N TF12 - Very	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Nam. Profile Descri Top Depth 0 NRCS Hydric	e: Potion (Describe to II Bottom Depth 16 Soil Field In A1- Histosol A2 - Histo E A3 - Black Hi A4 - Hydroge A5 - Stratified	Lobdell silt loam, he depth needed to document the Horizon dicators (check hoppedon stic n Sulfide	O-3% slop indicator or confirm Color 10YR	Matrix (Moist) 4/2 cators al	% 95	Flooded 7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	dox Features % 5	Type C 5 for Probler A16 - Coast S7 - Dark S TF12 - Iron-N TF12 - Very	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Bottom Depth	Lobdell silt loam, he depth needed to document the Horizon dicators (check hoppedon stic in Sulfide in Layers luck	0-3% slop indicator or confirm Color 10YR nere if indi	Matrix (Moist) 4/2 cators al	% 95	7.5YR 7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6	% 5	Type C 5 for Probler A16 - Coast S7 - Dark S TF12 - Iron-N TF12 - Very	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric	e: Poin (Describe to	Lobdell silt loam, ne depth needed to document the Horizon dicators (check hoppedon stic n Sulfide de Layers luck and Below Dark Surface	0-3% slop indicator or confirm Color 10YR nere if indi	Matrix (Moist) 4/2 cators ar	% 95	7.5YR 7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Red Color (Moist) 4/6): Matrix cinneral Matrix x rface	% 5	Type C 5 for Probler A16 - Coast S7 - Dark S TF12 - Iron-N TF12 - Very	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Nam Profile Descri Top Depth 0 NRCS Hydric	e: Potion (Describe to 1) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick D	Horizon Hor	0-3% slop indicator or confirm Color 10YR nere if indi	Matrix (Moist) 4/2 cators al	96 95 e not pre S4 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli	Flooded	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	% 5	Type C 5 for Probler A16 - Coast S7 - Dark S TF12 - Iron-N TF12 - Very	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric	e: Potion (Describe to III) Bottom Depth 16	Lobdell silt loam, he depth needed to document the Horizon dicators (check hoppedon stic n Sulfide d Layers luck ded Below Dark Surface luck Mineral	0-3% slop indicator or confirm Color 10YR nere if indi	Matrix (Moist) 4/2 cators ar	96 95 e not pre S4 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli	7.5YR 7.5YR	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	dox Features % 5	Type C s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Explain	Location PL	(e.g. clay, sand, loa silty clay loam es
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Horizon Hor	0-3% slop indicator or confirm Color 10YR nere if indi	Matrix (Moist) 4/2 cators al	96 95 e not pre S4 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli	Flooded	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	dox Features % 5 Indicators Indicators of hydrophytes	Type C	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric Restrictive Layer	e: Potion (Describe to II Bottom Depth 16	Lobdell silt loam, he depth needed to document the Horizon dicators (check hoppedon stic n Sulfide d Layers luck ded Below Dark Surface luck Mineral	0-3% slop indicator or confirm Color 10YR nere if indi	Matrix (Moist) 4/2 cators al	96 95 e not pre S4 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli	Flooded	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	dox Features % 5	Type C	Location PL	(e.g. clay, sand, loa silty clay loam es
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric Restrictive Layer (If Observed)	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Lobdell silt loam, he depth needed to document the Horizon dicators (check hoppedon stic n Sulfide d Layers luck ded Below Dark Surface luck Mineral	0-3% slop indicator or confirm Color 10YR nere if indi	Matrix (Moist) 4/2 cators al	96 95 e not pre S4 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli	Flooded	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	dox Features % 5 Indicators Indicators of hydrophytes	Type C	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric Restrictive Layer	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Lobdell silt loam, he depth needed to document the Horizon dicators (check hoppedon stic n Sulfide d Layers luck ded Below Dark Surface luck Mineral	0-3% slop indicator or confirm Color 10YR nere if indi	Matrix (Moist) 4/2 cators al	96 95 e not pre S4 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli	Flooded	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	dox Features % 5 Indicators Indicators of hydrophytes	Type C	Location PL	(e.g. clay, sand, loa silty clay loam
Remarks: SOILS Map Unit Name Profile Descri Top Depth O NRCS Hydric Restrictive Layer (If Observed)	e: Potion (Describe to III) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Lobdell silt loam, he depth needed to document the Horizon dicators (check hoppedon stic n Sulfide d Layers luck ded Below Dark Surface luck Mineral	0-3% slop indicator or confirm Color 10YR nere if indi	Matrix (Moist) 4/2 cators al	96 95 e not pre S4 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli	Flooded	ion, D=Depletion, RM=Reduced Matrix, CS Rec Color (Moist) 4/6	dox Features % 5 Indicators Indicators of hydrophytes	Type C	Location PL	(e.g. clay, sand, loa silty clay loam



Additional Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 16 Sample Point: SP 38 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) 3. 4. Total Number of Dominant Species Across All Strata: 4 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = FAC spp. x 3 = x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Aesculus glabra 5 FAC UPL spp. x 5 = 2. **FACU** Rubus allegheniensis 5 Salix nigra 3. 15 OBL Total 127 (A) 256 __(B) 4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = □ No Prevalence Index is ≤ 3.0 * ¥ Yes □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Phalaris arundinacea 80 **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Verbesina alternifolia 15 Ν **FACW** present, unless disturbed or problematic. 3. 2 Ν FAC Ambrosia trifida 4. Conium maculatum Ν **FACW Definitions of Vegetation Strata:** 5 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 102 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks:

	Additional Notification
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Project/Site:											
	North Newark	- Sharp Road 138 kV Tra	ansmissior	Line Rebu	uild Project		Stantec Project #:	193707328		Date:	01/02/20
Applicant:	American E	Electric Power (AEP)							County:	Knox
Investigator #1:	Nathan Nol	and		Investi	gator #2:					State:	Ohio
Soil Unit:	Lobdell silt loa	am, 0-3% slopes, occasio	onally flood				IWI/WWI Classification	:		Wetland ID:	Wetland 16
Landform:	Rise				al Relief:					Sample Point:	
Slope (%):	1	Latitude:			ongitude:				WGS 84	Community ID:	UPL
		litions on the site ty				(If no, expla	in in remarks)	Yes □	_No	Section:	N/A
		or Hydrology 🗆 sig					Are normal circumsta		?	Township:	N/A
Are Vegetation	□ <u>, Soil □ ,</u>	or Hydrology <u>□</u> na	turally pr	oblemati	ic?		Yes	N∌		Range:	N/A Dir: N/A
SUMMARY OF	FINDINGS										
Hydrophytic Ve	getation Pre	sent?		Yes				Hydric Soils	Present?		□ Yes □ No
Wetland Hydrol	ogy Present	?		□ Yes	□ No			Is This Samp	oling Point	Within A Wetla	and? • Yes • No
Remarks:											
HYDROLOGY											
Wetland Hydr	ology Indica	ators (Check here it	indicato	re are no	nt nresen	t - \•					
Primary		itors (Check here i	iiiuicaic	ns ale ii	or bresen).			Secondary:		
	A1 - Surface	Water			B9 - Wate	r-Stained	Leaves			B6 - Surface Sc	oil Cracks
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
	A3 - Saturation				B14 - True					C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydr		de Odor spheres on Living Roots			C8 - Crayfish B	urrows Visible on Aerial Imagery
	B2 - Sedimer B3 - Drift Dep						sprieres on Living Roots				Stressed Plants
_	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorph	
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutr	
		on Visible on Aerial Im			D9 - Gaug						
	B8 - Sparsely	Vegetated Concave S	Surface		Other (Ex	olain in Re	marks)				
Field Observat											
Surface Water	Present?	□ Yes 🗵 No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes □ No
Water Table Pr		□ Yes ☑ No	Depth:		(in.)			Would Hy	arology i i	0001111	100 110
Saturation Pres	ent?	□ Yes 🗵 No	Depth:		(in.)						
Describe Record	ed Data (stre	am gauge, monitorin	well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	,	3 3 7	, ,	<u>'</u>	, 1		,,				
Tromanto.											
SOILS											
SOILS Man Unit Name	··	Lobdell silt loam 0	-3% slor	nes occa	sionally f	looded					
Map Unit Name		Lobdell silt loam, 0					on DuDonktion PMsPoduood Matrix CCs	Covered/Costed Sand Cov	ing Looding DL=D	pro Lining M=Matrix)	
Map Unit Name Profile Descrip	otion (Describe to t			n the absence of	indicators.) (Typ		on, D=Depletion, RM=Reduced Matrix, CS=		ins; Location: PL=P	ore Lining, M=Matrix)	Texture
Map Unit Name Profile Descrip Top	Bottom	he depth needed to document the inc	icator or confirm	the absence of Matrix	indicators.) (Typ		Red	ox Features		T	Texture
Map Unit Name Profile Descrip Top Depth	Bottom Depth	he depth needed to document the inc	Color	Matrix (Moist)	indicators.) (Typ	e: C=Concentrat	Color (Moist)	ox Features %	Туре	Location	(e.g. clay, sand, loam)
Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	he depth needed to document the inc Horizon	Color 10YR	Matrix (Moist) 4/4	indicators.) (Typ	e: C=Concentrat	Red Color (Moist)	ox Features % 	Type 	Location 	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	he depth needed to document the inc Horizon	Color 10YR	Matrix (Moist) 4/4	% 100	e: C=Concentrat	Color (Moist)	ox Features %	Type	Location 	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0	Bottom (Describe to	he depth needed to document the inc Horizon	Color 10YR	Matrix (Moist) 4/4	% 100	e: C=Concentrat	Red Color (Moist)	%	Type	Location 	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	he depth needed to document the inc Horizon	Color 10YR	Matrix (Moist) 4/4	% 100	e: C=Concentrat	Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0	Bottom (Describe to	he depth needed to document the inc Horizon	Color 10YR	Matrix (Moist) 4/4	% 100	e: C=Concentrat	Red Color (Moist)	%	Type	Location 	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	he depth needed to document the inc Horizon	Color 10YR	Matrix (Moist) 4/4	% 100	e: C=Concentrat	Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	he depth needed to document the inc Horizon	Color 10YR	Matrix (Moist) 4/4	% 100	e: C=Concentrat	Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0	Dation (Describe to to Bottom Depth 16	he depth needed to document the inc Horizon	Color 10YR	Matrix (Moist) 4/4	% 100	a: C=Concentrat	Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0	Dation (Describe to 1 Bottom Depth 16	he depth needed to document the inc Horizon	Color 10YR	methe absence of Matrix (Moist) 4/4	9% 100	e: C=Concentrat	Red Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Dition (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol	Horizon	Color 10YR	matrix (Moist) 4/4	%	e: C=Concentrat	Red Color (Moist)	ox Features %	Type 5 for Probler	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep	Horizon dicators (check he	Color 10YR	Matrix (Moist) 4/4 -	% 100	e: C=Concentrat	Red Color (Moist)	ox Features %	Type 5 for Probler A16 - Coast S7 - Dark S	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi	Horizon dicators (check he	Color 10YR	Matrix (Moist) 4/4 cators ar	% 100 e not pre \$4 - Sand \$6 - Stripl	e: C=Concentrat	Red Color (Moist)	ox Features %	Type	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Dation (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Horizon	Color 10YR	matrix (Moist) 4/4 -	%	e: C=Concentrat	Red Color (Moist)	ox Features %	Type 5 for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratifiee	Horizon dicators (check he	Color 10YR	Matrix (Moist) 4/4 cators ar	% 100	e: C=Concentrat	Red Color (Moist)	ox Features %	Type 5 for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydrdig A4 - Stratified A10 - 2 cm M	Horizon dicators (check he	Color 10YR re if indi	methodological method	%	e: C=Concentrat	Red Color (Moist)	ox Features %	Type 5 for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydrdig A4 - Stratified A10 - 2 cm M	Horizon dicators (check he bipedon stic en Sulfide d Layers luck ed Below Dark Surface	Color 10YR re if indi	matrix (Moist) 4/4 cators ar	% 100	e: C=Concentrat	Red Color (Moist)	ox Features %	Type 5 for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	Horizon	Color 10YR re if indi	nthe absence of Matrix (Moist) 4/4 cators ar	% 100	e: C=Concentrat	Red Color (Moist)	ox Features %	Type 5 for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	Horizon dicators (check here) speed to document the income i	Color 10YR re if indi	matrix (Moist) 4/4 -	"Mindicators.) (Type indicators.) (Type indicators.	e: C=Concentrat	Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	Horizon	Color 10YR re if indi	matrix (Moist) 4/4 -	"Mindicators.) (Type indicators.) (Type indicators.	e: C=Concentrat	Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam es
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	Pation (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Horizon	Color 10YR re if indi	matrix (Moist) 4/4 -	"Mindicators.) (Type indicators.) (Type indicators.	e: C=Concentrat	Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam es urface
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Pation (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Horizon	Color 10YR re if indi	matrix (Moist) 4/4 -	"Mindicators.) (Type indicators.) (Type indicators.	e: C=Concentrat	Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam es urface
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	Pation (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Horizon	Color 10YR re if indi	matrix (Moist) 4/4 -	"Mindicators.) (Type indicators.) (Type indicators.	e: C=Concentrat	Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam es urface
Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	Pation (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifier A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Horizon	Color 10YR re if indi	matrix (Moist) 4/4 -	"Mindicators.) (Type indicators.) (Type indicators.	e: C=Concentrat	Red Color (Moist)	ox Features %	Type s for Probler A16 - Coast S7 - Dark S F12 - Iron-N TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) silty clay loam es urface

Sample Point: SP 39



North Newark- Sharp Road 138 kV Transmission Line Rebuild Project

Project/Site:

WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: Wetland 16

VEGETATION (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Aesculus glabra 5 FAC 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 4 (B) 5. __ 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 25% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 5 FACW spp. x 2 = FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. _ 65 260 Rubus occidentalis 20 **UPL** UPL spp. 20 x 5 = 100 2 3. Total 115 (A) 425 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = ☑ No Prevalence Index is ≤ 3.0 * Yes □ No Yes Morphological Adaptations (Explain) * □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Setaria faberi 30 **FACU** * Indicators of hydric soil and wetland hydrology must be 2. Monarda fistulosa 20 **FACU** present, unless disturbed or problematic. 3. 15 FACW Dichanthelium clandestinum Ν 10 Ν **FACW Definitions of Vegetation Strata:** 4. Verbesina alternifolia FACU 5. Symphyotrichum ericoides 10 Ν 6 Solidago canadensis 5 Ν **FACU** Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 --8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Are Vegetation ¹	American E Nathan Nol Pewamo silty Depression 1 drologic conc , Soil , FINDINGS getation Pres	Latitude: Latitude: litions on the site ty or Hydrology sig or Hydrology nat	till, 0-2% s 40.27592 pical for the pricantly of the pr	Investislopes Loc Loc this time disturbe oblemati	gator #2: cal Relief: congitude: cof year? ed? ic?	Concave -82.5048	NWI/WWI Classification: e 872 sin in remarks) Are normal circumstar P Yes	Datum: Yes ces present? No Hydric Soils	Present?	Date: County: State: Wetland ID: Sample Point: Community ID: Section: Township: Range:	PSS
HYDROLOGY Wetland Hydro	A1 - Surface A2 - High Wa A3 - Saturati B1 - Water W B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundation	nter Table on larks nt Deposits posits at or Crust	agery		B9 - Wate B13 - Aqu B14 - True C1 - Hydr C3 - Oxidi C4 - Pres	er-Stained atic Fauna e Aquatic I ogen Sulfir zed Rhizo ence of Re ent Iron Re Muck Surf ge or Well	Plants de Odor spheres on Living Roots educed Iron duction in Tilled Soils ace Data		Secondary:	B10 - Drainage C2 - Dry-Seaso C8 - Crayfish B C9 - Saturation	Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants ic Position
Field Observation Surface Water Water Table Prosaturation Pres	Present? esent? ent?	Yes No Yes No No note Yes No	Depth: Depth: Depth:		(in.) (in.) (in.)	s inspecti		Wetland Hy	drology Pr	esent?	Yes □ No
Top	Bottom Depth 16	Horizon	Color (10YR	the absence of Matrix (Moist) 3/1	% 85	7.5YR	on, D=Depletion, RM=Reduced Matrix, CS=C Redo Color (Moist) 4/4	x Features % 15 	Type C	Location M	Texture (e.g. clay, sand, loam) silty clay loam
 NPCS Hydric	 Soil Field In	 dicators (check he	 re if indic):		 s for Problem	 	
	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M	oipedon stic n Sulfide d Layers luck ed Below Dark Surface Dark Surface			S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	y Gleyed I y Redox ped Matrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Matrix ineral Matrix (rface Surface ions		A16 - Coast S7 - Dark Si F12 - Iron-M TF12 - Very Other (Expla	Prairie Redox urface anganese Mass Shallow Dark Si ain in Remarks)	
Restrictive Layer (If Observed)	Туре:			Depth:				Hydric Soil	Present?		Yes □ No

Sample Point: SP 40



North Newark- Sharp Road 138 kV Transmission Line Rebuild Project

Project/Site:

WETLAND DETERMINATION DATA FORM Midwest Region

Wetland ID: Wetland 17

VEGETATION (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Acer saccharinum 10 **FACW** 2. Number of Dominant Species that are OBL, FACW, or FAC: 6 (A) 3. 4. Total Number of Dominant Species Across All Strata: 6 (B) 5. __ 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = 60 Total Cover = 10 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Cephalanthus occidentalis 30 **OBL** UPL spp. x 5 = 2. **OBL** Rosa palustris 10 3. Fraxinus pennsylvanica 10 **FACW** Total 95 (A) 130 (B) 4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --2 Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Scirpus cyperinus 20 OBL * Indicators of hydric soil and wetland hydrology must be 2. Phalaris arundinacea 15 Υ **FACW** present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 35 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Stantec Project #: 193707328 01/02/20 Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Date: Applicant: American Electric Power (AEP) County: Knox Investigator #1: Nathan Noland Investigator #2: Rohini Vembar State: Ohio NWI/WWI Classification: Wetland 17 Soil Unit: Pewamo silty clay loam, low carbonate till, 0-2% slopes Wetland ID: Landform: Rise Local Relief: Linear Sample Point: SP 41 Slope (%): Latitude: 40.27565 Longitude: -82.504814 Datum: WGS 84 Community ID: UPL Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Ye<u>s □ No</u> Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? □ Yes ☑ (in.) Nο Depth: Wetland Hydrology Present? □ Yes □ No □ Yes Water Table Present? . No Depth: (in.) Saturation Present? □ Yes 🛮 No Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Pewamo silty clay loam, low carbonate till, 0-2% slopes Map Unit Name: Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 100 10YR 4/3 silty clay loam 0 16 NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleved Matrix Other (Explain in Remarks) A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



5.

Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 17 Sample Point: SP 41 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 4 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 25% (A/B) 7. 8. --**Prevalence Index Worksheet** 9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 5 Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. _ 100 Rubus allegheniensis 5 **FACU** UPL spp. 60 x 5 = 300 2. **FACW** Cornus amomum 10 3. Total 100 (A) 435 (B) 4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes ☑ No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = ☑ No Prevalence Index is ≤ 3.0 * Yes □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Setaria faberi 20 **FACU** * Indicators of hydric soil and wetland hydrology must be 2. Panicum capillare 5 Ν FAC present, unless disturbed or problematic. 3. 60 Υ UPL Zea mays 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 85 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4.

Additional Remarks:		

Total Cover =

Harvested ag (corn) field

0



Soil Unit: Depression Depression Depression Latitude: 40.25% spees Latitude: 40.25%		Knox	Date: County:		193707328	Stantec Project #:	Debiets				- Sharp Road 138 kV T Electric Power (AE	American B	Project/Site: Applicant:
Slope (%): 1	18	Ohio Wetland SP 42			PUBGx	NWI/WWI Classification:	١		6 slopes	nate till, 0-2%	clay loam, low carbona	Pewamo silty	Soil Unit:
Are Nogelation O Soil S or Hydrology a significantly disturbed? Are normal circumstances present? Township: NA Range: NA SIMMARY OF FINDINGS Wetland Hydrology Present?				WGS 84	Datum:	428	-82.504	ongitude:	7 L		Latitude	1	
Are Vegetation Page 1 or Hydrology and aturally problematic? WellmARY OF Prison No. Hydrology Present? Wetand Hydrology Present? Wetand Hydrology Indicators (Check here if indicators are not present by the problematic Present		N/A	Section:	No	Yes □	ain in remarks)	(If no, expla						
Diminary Present Pre		N/A	Township:	?	•								
Hydro Present?	Dir: N/A	N/A	Range:		N∋	□ Yes		ic?	oroblema	naturally p	or Hydrology 😐 🛚 n		
Vestand Hydrology Present? Ves No Is This Sampling Point Within A Wetland? Remarks:													
Work	Yes 🗆 No												
Secondary Primary All - Surface Water Secondary Best	Yes • No	and?	Within A Wet	pling Point	Is This Sam			□ No	□ Ye		?	ogy Present	
Primary							4 = \-	-1		o if indicat	stara (Chaalr hara	lo my India	
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Pewamo silty clay loam, low carbonate till, 0-2% slopes Profile Description Describe to the depth needed to document the indicator or confirm the absence of indicators) (Type: C=Concentration, D=Depthion, RM=Reduced Matrix, CS=CoveredCoated Sand Grains; Location: PL=Pure Lining, M=Matrix) Top				N/A			s inspecti	s nrevinii					
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NRCS Hydric Soil Field Indicators (check here if indicators are not present December	Fexture	_	T		ox Features	SS tion, D=Depletion, RM=Reduced Matrix, CS= Red		ate till, 0-	ow carbon irm the absence Matrix	ay loam, lo	Pewamo silty clay	: tion (Describe to Bottom	Remarks: SOILS Map Unit Name Profile Descrip Top
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□ S1 - Sandy Muck Mineral □ F8 - Redox Depressions	y, sand, loa clay loam 	(e.g. cla	Location PL	Type C	% 10	ES tion, D=Depletion, RM=Reduced Matrix, CS= Reduced (Moist) 4/6	5YR	ate till, 0- indicators.) (Typ 96 90	www carbon with absence Matrix r (Moist) 8 4/1	Color 10YR	Pewamo silty clay he depth needed to document the i Horizon	Etion (Describe to Bottom Depth 16	OILS Map Unit Name Profile Descrip Top Depth 0
Restrictive Layer (If Observed) S 3 - 5 cm Mucky Peat or Peat Type: Depth: Hydric Soil Present? Yes	y, sand, loa clay loam 	(e.g. cla silty	Location PL	Type C s for Probler A16 - Coast S7 - Dark S F12 - Iron-M TF12 - Very Other (Expla	ox Features % 10 Indicators	Rediction, D=Depletion, RM=Reduced Matrix, CS= Rediction (Moist) 4/6	SYR	ate till, 0- indicators) (Typ % 90 e not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc	www carbot mithe absence Matrix r (Moist) & 4/1	Color 10YR here if indi	Pewamo silty clay he depth needed to document the i Horizon dicators (check h bipedon stic nn Sulfide d Layers luck ded Below Dark Surface sturface fluck Mineral	Etion (Describe to Depth 16	Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric



Additional Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 18 Sample Point: SP 42 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. **Prevalence Index Worksheet** 8. --9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 20 (A) 20 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * OBL Leersia oryzoides 20 * Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 20 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present

Yes

No 3. 4. 5. Total Cover = 0 Remarks:



Project/Site:	North Newark	- Sharp Road 138 kV Tr	ansmission	Line Rebu	ild Project		Stantec Project #:	193707328		Date:	01/03/20
Applicant:	American E	Electric Power (AEP	P)							County:	Knox
Investigator #1:	Nathan No	and		Investi	gator #2:	Rohini \	/embar			State:	Ohio
Soil Unit:		clay loam, low carbonate	e till 0-2% :		<u> </u>		WI/WWI Classification:			Wetland ID:	Wetland 18
Landform:	Rise	oldy loam, low ourbonat	o un, o 270 .		al Relief:		Will Will Classification.			Sample Point:	
		l atituda.					105	Dotum	WGS 84		
Slope (%):	<u>1</u>		40.28284			-82.504				Community ID:	
		litions on the site ty				(If no, expla		Yes □	No	Section:	N/A
Are Vegetation ^t	□ , Soil □ ,	or Hydrology 🗆 sig	gnificantly	/ disturbe	ed?		Are normal circumsta	nces present?	•	Township:	N/A
Are Vegetation	□ , Soil □ ,	or Hydrology 🗀 na	iturally pr	oblemati	c?		□ Yes	NÐ		Range:	N/A Dir: N/A
SUMMARY OF											
Hydrophytic Ve		cent?		□ Yes	□ No			Hydric Soils I	Dresent?		□ Yes □ No
, ,	9									Mithin A Matle	
Wetland Hydrol	ogy Present	!		Yes	□ No			is this samp	oling Point	within A wella	and? • Yes • No
Remarks:											
HYDROLOGY											
	a la anno las altas		£ ! ! 4 .			4 \-					
_		itors (Check here i	t indicato	rs are no	ot presen	t□):					
Primary:		14/-4		_	DO 14/-4-	04 - 1 - 1			Secondary:		il Ossa da
	A1 - Surface					er-Stained			_	B6 - Surface So	
	A2 - High Wa					atic Fauna			_	B10 - Drainage	
0	A3 - Saturation					e Aquatic I				C2 - Dry-Seaso	
	B1 - Water M					ogen Sulfi			_	C8 - Crayfish B	
	B2 - Sedimer						spheres on Living Roots		_		Visible on Aerial Imagery
	B3 - Drift Dep						educed Iron				Stressed Plants
	B4 - Algal Ma						duction in Tilled Soils		_	D2 - Geomorph	
0 1	B5 - Iron Dep					Muck Surf				D5 - FAC-Neutr	al lest
		on Visible on Aerial Im				ge or Well					
	B8 - Sparsely	Vegetated Concave S	Surface		Other (Ex	plain in Re	emarks)				
Field Observat	ions:										
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)						
Water Table Pr		□ Yes □ No			` '			Wetland Hyd	drology Pr	esent?	Yes □ No
			Depth:		(in.)						
Saturation Pres	ent?	□ Yes □ No	Depth:		(in.)						
Describe Record	ed Data (stre	am gauge, monitorin	g well ae	rial nhoto	s nreviou	e inenacti	ons) if available:		N/A		
	ou Data (ot.o	an gaage, memen	9 110, 40.	nai prioto	o, proviou	3 III3pecti	onoj, ii avaliabio.				
Remarks:	ou Data (otto	am gaage, memen	9, a	nai prioto	s, previou	з пізресп	ono), ii uvaliabio.				
Remarks:	ou Data (ou o	am gaage, memem	g, a.e.	nar prioto	o, previou	з пізреси	ono, ii avallabio.				
	ou Duta (on o	an gaage, meme	g, ao.	nai prioto	o, previou	з тареси	one), ir available.				
Remarks:	·			·	•	·	,				
Remarks: SOILS Map Unit Name	:	Pewamo silty clay	loam, low	· v carbona	ate till, 0-	2% slope	es			ore Lining M-Matriy)	
Remarks: SOILS Map Unit Name Profile Descrip	: tion (Describe to	Pewamo silty clay	loam, low	v carbona the absence of	ate till, 0-	2% slope	S S D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Grain		ore Lining, M=Matrix)	Toytura
Remarks: SOILS Map Unit Name Profile Descrip Top	: tion (Describe to) Bottom	Pewamo silty clay the depth needed to document the inc	loam, low	v carbona the absence of Matrix	ate till, O-	2% slope	es ion, D=Depletion, RM=Reduced Matrix, CS=C Redo	Covered/Coated Sand Grail DX Features	ns; Location: PL=Po	T	Texture
Remarks: SOILS Map Unit Name Profile Descrip	: tion (Describe to	Pewamo silty clay	loam, low	v carbona the absence of Matrix (Moist)	ate till, 0- indicators.) (Typ	2% slope	S S D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Grain		ore Lining, M=Matrix) Location	Texture (e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top	: tion (Describe to) Bottom	Pewamo silty clay the depth needed to document the inc	loam, low	v carbona the absence of Matrix	ate till, O-	2% slope	es ion, D=Depletion, RM=Reduced Matrix, CS=C Redo	Covered/Coated Sand Grail DX Features	ns; Location: PL=Po	T	
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	: Potion (Describe to the sound of the so	Pewamo silty clay the depth needed to document the inc	loam, low	v carbona the absence of Matrix (Moist)	ate till, 0- indicators.) (Typ	2% slope	on, D=Depletion, RM=Reduced Matrix, CS=C Redo Color (Moist)	Covered/Coated Sand Grail DX Features %	ns; Location: PL=Po	Location	(e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	btion (Describe to to Bottom Depth 16	Pewamo silty clay the depth needed to document the ine Horizon	loam, low dicator or confirm Color 10YR	v carbona the absence of Matrix (Moist) 3/2	ate till, 0- indicators.) (Typ % 100	2% slope	ion, D=Depletion, RM=Reduced Matrix, CS=C Redo Color (Moist) 	covered/Coated Sand Grail ox Features %	ns; Location: PL=Pc Type	Location 	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Pewamo silty clay the depth needed to document the ine Horizon	loam, low dicator or confirm Color 10YR	v carbona the absence of Matrix (Moist) 3/2	### still, 0- indicators.) (Type %	2% slope e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS=C Redo Color (Moist)	Covered/Coated Sand Grail DX Features %	Type	Location 	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	btion (Describe to to Bottom Depth 16	Pewamo silty clay the depth needed to document the ine Horizon	loam, low dicator or confirm Color 10YR	v carbona the absence of Matrix (Moist) 3/2	ate till, 0- indicators.) (Typ % 100	2% slope	ion, D=Depletion, RM=Reduced Matrix, CS=C Redo Color (Moist) 	covered/Coated Sand Grail ox Features %	ns; Location: PL=Pc Type	Location 	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Pewamo silty clay the depth needed to document the ine Horizon	loam, low dicator or confirm Color 10YR	v carbona the absence of Matrix (Moist) 3/2	### still, 0- indicators.) (Type %	2% slope e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS=C Redo Color (Moist)	Covered/Coated Sand Grail DX Features %	Type	Location 	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Pewamo silty clay the depth needed to document the ine Horizon	loam, low dicator or confirm Color 10YR	v carbona the absence of Matrix (Moist) 3/2	### ate till, 0- indicators.) (Typ %	2% slope	on, D=Depletion, RM=Reduced Matrix, CS=C Redo Color (Moist)	Covered/Coated Sand Grain Experiment of the Coated Sand Grain Cox Features %	Type		(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Pewamo silty clay the depth needed to document the ince Horizon	loam, low dicator or confirm Color 10YR	v carbona the absence of Matrix (Moist) 3/2	% 100	2% slope	es on, D=Depletion, RM=Reduced Matrix, CS= Redo Color (Moist)	Covered/Coated Sand Grail DX Features %	Type	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Extion (Describe to 1 Bottom Depth 16	Pewamo silty clay the depth needed to document the inv Horizon	Color 10YR	v carbona the absence of Matrix (Moist) 3/2	% 100	2% slope	on, D=Depletion, RM=Reduced Matrix, CS=COLOR (Moist)	Covered/Coated Sand Grail DX Features %	Type		(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	: Stion (Describe to 1 Bottom Depth 16	Pewamo silty clay the depth needed to document the inc Horizon	Color 10YR	v carbon: the absence of Matrix (Moist) 3/2	% 100	2% slopee: C=Concentrat	Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Grail DX Features %	Type	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	: Stion (Describe to 1 Bottom Depth 16	Pewamo silty clay the depth needed to document the ince Horizon	Color 10YR	v carbon: the absence of Matrix (Moist) 3/2	% 100	2% slopee: C=Concentrat	Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Grail DX Features %	Type	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	: Stion (Describe to 1 Bottom Depth 16	Pewamo silty clay the depth needed to document the inc Horizon	Color 10YR	v carbon: the absence of Matrix (Moist) 3/2	% 100 e not pre	2% slopee: C=Concentrat	Redaction, RM=Reduced Matrix, CS=Color (Moist)	Covered/Coated Sand Grail DX Features 90 Indicators	Type for Problem	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	Bottom Depth 16 Soil Field In	Pewamo silty clay the depth needed to document the ince Horizon dicators (check he	Color 10YR	v carbona: the absence of Matrix (Moist) 3/2	% 100 e not pre	2% slope e: C=Concentral sent □	Redaction, RM=Reduced Matrix, CS=Color (Moist)	Dovered/Coated Sand Grain DX Features % Indicators	Type for Problem	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In	Pewamo silty clay the depth needed to document the ince Horizon dicators (check he	Color 10YR	v carbona the absence of Matrix (Moist) 3/2 cators ar	wate till, 0- indicators.) (Type // 100 e not pre S4 - Sanc S5 - Sanc	2% slope e: C=Concentral sent □	Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Grain OX Features % Indicators	Type for Problem A16 - Coast S7 - Dark St	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E	Pewamo silty clay he depth needed to document the inc Horizon dicators (check he	Color 10YR	w carbona the absence of Matrix (Moist) 3/2 cators ar	% 100	2% slope e: C=Concentrat	Color (Moist)	Covered/Coated Sand Grail DX Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A3 - Black Hi	Pewamo silty clay he depth needed to document the ind Horizon dicators (check he objection stic en Sulfide	Color 10YR	v carbona the absence of Matrix (Moist) 3/2 cators ar	% 100 e not pre 84 - Sanc 85 - Sanc 85 - Strip F1 - Loan	2% slope e: C=Concentrat sent □ dy Gleyed dy Gleyed Matrix	Reduced Matrix, CS=COIOr (Moist)	Covered/Coated Sand Grail DX Features 96 Indicators	Type for Problen A16 - Coast S7 - Dark Sg T12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Extion (Describe to Depth 16	Pewamo silty clay he depth needed to document the inc Horizon dicators (check he object on Sulfide di Layers	Color 10YR	v carbona: the absence of Matrix (Moist) 3/2	% 100 e not pre S4 - Sanc S5 - Sarc F1 - Loan	2% slope e: C=Concentrat seent □ ty Gleyed Id ty Redox ty Redox ty Muck M ty Muck M	Redor (Moist)	Covered/Coated Sand Grail DX Features 96 Indicators	Type for Problen A16 - Coast S7 - Dark Sg T12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M	Pewamo silty clay he depth needed to document the inc Horizon dicators (check he object on Sulfide di Layers	loam, low dicator or confirm Color 10YR ere if indic	v carbona the absence of Matrix (Moist) 3/2	when till, 0-indicators.) (Typindicators.) (Typindicators	2% slope e: C=Concentrat	Reduced Matrix, CS=C Reduced M	Covered/Coated Sand Grail DX Features 96 Indicators	Type for Problen A16 - Coast S7 - Dark Sg T12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M	Pewamo silty clay the depth needed to document the inc Horizon dicators (check he objection stic en Sulfide di Layers luck ed Below Dark Surface	loam, low dicator or confirm Color 10YR ere if indic	w carbona the absence of Matrix (Moist) 3/2 cators ar	% 100	2% slope e: C=Concentrat seent □ ty Gleyed i ty Redox ped Matrix ny Muck M ny Gleyed eted Matrix	Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Grail DX Features 96 Indicators	Type for Problen A16 - Coast S7 - Dark Sg T12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E ₁ A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	Pewamo silty clay he depth needed to document the inc Horizon dicators (check he objecton stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface	loam, low dicator or confirm Color 10YR ere if indic	w carbona the absence of Matrix (Moist) 3/2 cators ar	% 100	2% slope e: C=Concentrat	Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Grail DX Features 96 Indicators	Type for Problen A16 - Coast S7 - Dark Sg T12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Extraction (Describe to 10 popth 16 pop	Pewamo silty clay he depth needed to document the inc Horizon dicators (check he objecton stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface	loam, low dicator or confirm Color 10YR ere if indic	v carbona the absence of Matrix (Moist) 3/2 cators ar	% 100	2% slope e: C=Concentrat sent □ dy Gleyed dy Gleyed dy Redox ped Matrix ny Muck M ny Gleyed deted Matrix xo Dark Su xot Da	Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Grail DX Features 9/0 Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Explain	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2- Histic EI A3- Black Hi A4- Hydroge A5- Stratifier A11- Deplet A12- Thick E S1- Sandy M S3-5 cm Mt	Pewamo silty clay he depth needed to document the ind Horizon dicators (check he objection stic an Sulfide d Layers luck de Below Dark Surface of Surface fluck Mineral	loam, low dicator or confirm Color 10YR ere if indic	v carbona the absence of Matrix (Moist) 3/2 cators ar	% 100	2% slope e: C=Concentrat sent □ dy Gleyed dy Gleyed dy Redox ped Matrix ny Muck M ny Gleyed deted Matrix xo Dark Su xot Da	Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Grain DX Features % Indicators Indicators of hydrophytic	Type	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	Extraction (Describe to 10 popth 16 pop	Pewamo silty clay he depth needed to document the ind Horizon dicators (check he objection stic an Sulfide d Layers luck de Below Dark Surface of Surface fluck Mineral	loam, low dicator or confirm Color 10YR ere if indic	v carbona the absence of Matrix (Moist) 3/2 cators ar	% 100	2% slope e: C=Concentrat sent □ dy Gleyed dy Gleyed dy Redox ped Matrix ny Muck M ny Gleyed deted Matrix xo Dark Su xot Da	Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Grail DX Features 9/0 Indicators	Type	Location	(e.g. clay, sand, loam) silty clay loam es
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	Bottom Depth 16 Soil Field In A1- Histosol A2- Histic EI A3- Black Hi A4- Hydroge A5- Stratifier A11- Deplet A12- Thick E S1- Sandy M S3-5 cm Mt	Pewamo silty clay he depth needed to document the ind Horizon dicators (check he objection stic an Sulfide d Layers luck de Below Dark Surface of Surface fluck Mineral	loam, low dicator or confirm Color 10YR ere if indic	v carbona the absence of Matrix (Moist) 3/2 cators ar	% 100	2% slope e: C=Concentrat sent □ dy Gleyed dy Gleyed dy Redox ped Matrix ny Muck M ny Gleyed deted Matrix xo Dark Su xot Da	Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Grain DX Features % Indicators Indicators of hydrophytic	Type	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2- Histic EI A3- Black Hi A4- Hydroge A5- Stratifier A11- Deplet A12- Thick E S1- Sandy M S3-5 cm Mt	Pewamo silty clay he depth needed to document the ind Horizon dicators (check he objection stic an Sulfide d Layers luck de Below Dark Surface of Surface fluck Mineral	loam, low dicator or confirm Color 10YR ere if indic	v carbona the absence of Matrix (Moist) 3/2 cators ar	% 100	2% slope e: C=Concentrat sent □ dy Gleyed dy Gleyed dy Redox ped Matrix ny Muck M ny Gleyed deted Matrix xo Dark Su ceted Dark	Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Grain DX Features % Indicators Indicators of hydrophytic	Type	Location	(e.g. clay, sand, loam) silty clay loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	Bottom Depth 16 Soil Field In A1- Histosol A2- Histic EI A3- Black Hi A4- Hydroge A5- Stratifier A11- Deplet A12- Thick E S1- Sandy M S3-5 cm Mt	Pewamo silty clay he depth needed to document the ind Horizon dicators (check he objection stic an Sulfide d Layers luck de Below Dark Surface of Surface fluck Mineral	loam, low dicator or confirm Color 10YR	v carbona the absence of Matrix (Moist) 3/2 cators ar	% 100	2% slope e: C=Concentrat sent □ dy Gleyed dy Gleyed dy Redox ped Matrix ny Muck M ny Gleyed deted Matrix xo Dark Su ceted Dark	Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Grain DX Features % Indicators Indicators of hydrophytic	Type	Location	(e.g. clay, sand, loam) silty clay loam
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Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 18 Sample Point: SP 43 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7. **Prevalence Index Worksheet** 8. --9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 115 460 Rubus allegheniensis Ν **FACU** UPL spp. x 5 = 2. Rosa multiflora **FACU** 5 3. Total 115 (A) 460 __(B) 4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Solidago canadensis 80 **FACU** * Indicators of hydric soil and wetland hydrology must be 2. Dactylis glomerata 25 Ν **FACU** present, unless disturbed or problematic. 3. Symphyotrichum ericoides Ν **FACU** 2 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 107 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:			



Project/Site: Applicant:		Sharp Road 138 kV Tra Electric Power (AEP		Line Rebu	uild Project		Stantec Project #:	193707328		Date: County:	01/02/20 Licking	
Investigator #1:			,	Investi	gator #2:	Matt De	nzler			State:	Ohio	
Soil Unit:		n, 0-2% slopes, occasio	nally floods		yator #2.		NWI/WWI Classification	· none			Wetland 19)
Landform:	Plain	iii, 0-2% siopes, occasio	many nood		al Relief:			. Hone		Sample Point:		,
		1 -414						Datum	WGS 84			
Slope (%):	1	Latitude:			ongitude:					Community ID:		
		litions on the site ty				(If no, expla		✓ Yes	_No	Section:	N/A	
		or Hydrology 🗆 sig					Are normal circumsta		?	Township:	N/A	
		or Hydrology <u>□</u> na	turally pro	oblemat	ic?		Yes	N∌		Range:	N/A Dir	r: N/A
SUMMARY OF	FINDINGS											
Hydrophytic Ve	getation Pres	sent?		□ Yes	□ No			Hydric Soils	Present?		□ Ye	es 🗆 No
Wetland Hydro				□ Yes	□ No					Within A Wetla		es • No
Remarks:	10gy 1 1000HL	•		100	110			10 This Same	omig i omic	vviti iii 7 v v otic	ing.	30 110
HYDROLOGY												
	ology Indias	itors (Check here if	indicata	re are n	ot proces	t - \.						
Primary		itora (Check here ii	แนเปลเบ	is alt il	or bresell).			Secondary:			
Pililary		Water			B9 - Wate	or-Stained	Leaves		Secondary.		il Cracks	
	A2 - High Wa				B13 - Aqu					B10 - Drainage		
	A3 - Saturation				B14 - Tru				_	C2 - Dry-Seaso		
_	B1 - Water M				C1 - Hydr					C8 - Crayfish B		
	B2 - Sedimer						spheres on Living Roots			C9 - Saturation		ial Imagery
	B3 - Drift Dep						educed Iron			D1 - Stunted or		
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorph		
	B5 - Iron Dep				C7 - Thin				2	D5 - FAC-Neutr	al Test	
		on Visible on Aerial Ima			D9 - Gauç							
	B8 - Sparsely	Vegetated Concave S	Surface		Other (Ex	plain in Re	emarks)					
Field Observat	tions:											
Surface Water	Present?	☑ Yes □ No	Depth:	8	(in.)			147 41 111		10	V N	
					` '			Wetland Hy	droloav Pr	'ASANT'/	Yes □ No	0
Water Table Pr	esent?	☑ Ves □ No.	Denth:	surface	(in)			•	arology i i	COCIIC:		
Water Table Pr		☐ Yes ☐ No		surface	` '			·	arology	COCIII.		
Saturation Pres	sent?	☑ Yes □ No	Depth:	surface	(in.)					Cociic.		
Saturation Pres	sent?		Depth:	surface	(in.)	s inspecti	ons), if available:		N/A	coont.		
Saturation Pres	sent?	☑ Yes □ No	Depth:	surface	(in.)	s inspecti	ons), if available:					
Saturation Pres Describe Record	sent?	☑ Yes □ No	Depth:	surface	(in.)	s inspecti	ons), if available:					
Saturation Pres Describe Record Remarks:	sent?	☑ Yes □ No	Depth:	surface	(in.)	s inspecti	ons), if available:					
Saturation Pres Describe Record Remarks:	sent? ed Data (stre	□ Yes □ No am gauge, monitorino	Depth: g well, aer	surface rial photo	e (in.)	·	ons), if available:					
Saturation Press Describe Record Remarks: SOILS Map Unit Name	sent? ed Data (stre	□ Yes □ No am gauge, monitoring Shoals silt loam, 0-	Depth: g well, aer	surface	e (in.) ps, previou	ooded	,		N/A			
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Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	ed Data (stre	Shoals silt loam, 0- he depth needed to document the Ind Horizon 1	Depth: g well, aer 2% slope licator or confirm Color (10YR	es, occa the absence of Matrix (Moist)	sionally fluidicators.) (Typ	ooded e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	occovered/Coated Sand Gra OX Features % 15	N/A N/A Type C	ore Lining, M=Matrix) Location M	Texi (e.g. clay, s	sand, loam <mark>loam</mark>
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	eed Data (stre	Shoals silt loam, 0-ne depth needed to document the Ind Horizon 1	Depth: g well, aer 2% slope licator or confirm Color (10YR	surface rial photo es, occa the absence of Matrix (Moist) 4/1	sionally fi indicators.) (Typ % 85	ooded e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	occovered/Coated Sand Gra OX Features % 15	N/A N/A Type C	cre Lining, M=Matrix) Location M	Texi (e.g. clay, s clay	sand, loam loam
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	eed Data (stre	Shoals silt loam, 0-ne depth needed to document the Ind Horizon 1	Depth: g well, aer 2% slope licator or confirm Color (10YR	surface rial photo es, occa the absence of Matrix (Moist) 4/1	sionally fluidicators.) (Typ	ooded e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	ox Features % 15	N/A N/A Type C	Location M	Texi (e.g. clay, s clay	sand, loam loam
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	eed Data (stre	Shoals silt loam, 0-ne depth needed to document the Ind Horizon 1	Depth: g well, aer 2% slope licator or confirm Color (10YR	surface rial photo es, occa the absence of Matrix (Moist) 4/1	sionally fi indicators.) (Typ % 85	ooded e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	occovered/Coated Sand Gra OX Features % 15	N/A N/A Type C	cre Lining, M=Matrix) Location M	Texi (e.g. clay, s clay	sand, loam loam
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	eed Data (stre	Shoals silt loam, 0-ne depth needed to document the Ind Horizon 1	Depth: g well, aer 2% slope licator or confirm Color (10YR	surface rial photo es, occa the absence of Matrix (Moist) 4/1	sionally fluidicators.) (Typ	ooded e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	ox Features % 15	N/A N/A Type C	Location M	Texi (e.g. clay, s clay	sand, loam loam
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Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	eent? eed Data (stre eed Dat	Shoals silt loam, 0- he depth needed to document the Ind Horizon 1	Depth: g well, aer 2% slope Color of 10YR	surface rial photo es, occa the absence of Matrix (Moist) 4/1	sionally f	ooded e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15	N/A N/A Type C	Location M	Texi (e.g. clay, s clay - - -	sand, loam loam
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	eent? eed Data (stre eed Dat	Shoals silt loam, 0-he depth needed to document the Ind Horizon 1	Depth: g well, aer 2% slope Color of 10YR	surface rial photo es, occa the absence of Matrix (Moist) 4/1	sionally f	ooded e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15	N/A N/A Type C	Location M	Texi (e.g. clay, s clay - - -	sand, loam loam
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	eent? eed Data (stre eet Dat	Shoals silt loam, 0-he depth needed to document the ind Horizon 1	Depth: g well, aer 2% slope icator or confirm Color (10YR	surface rial photo es, occa the absence of Matrix (Moist) 4/1	sionally fluindicators) (Typ	ooded e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15	N/A Type C	Location M	Texi (e.g. clay, s clay - - -	sand, loam loam
Saturation Pres Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	eent? ed Data (stre b: otion (Describe to t) Bottom Depth 6 Soil Field In	Shoals silt loam, 0-he depth needed to document the Ind Horizon 1	Depth: g well, aer 2% slope icator or confirm Color (10YR	es, occa the absence of Matrix (Moist) cators ar	sionally fl indicators.) (Typ % 85	10YR	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features	N/A ins; Location: PL=Pe C 5 for Problem	Location M	Texi (e.g. clay, s clay - - -	sand, loam loam
Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	eent? ed Data (stre ction (Describe to to Bottom Depth 6 Soil Field In A1- Histosol	Shoals silt loam, 0- he depth needed to document the ind Horizon 1 dicators (check he	Depth: g well, aer 2% slope icator or confirm Color (10YR	es, occa the absence of Matrix (Moist) cators ar	sionally flindicators.) (Type 85	ooded e: C=Concentrat 10YR sent □ ly Gleyed I	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	ox Features % 15 Indicators	Type C for Problem A16 - Coast	Location M natic Soils ¹ Prairie Redox	Texi (e.g. clay, s clay - - -	sand, loam loam
Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	sent? ded Data (stre bit on (Describe to the street of t	Shoals silt loam, 0- ne depth needed to document the Ind Horizon 1 dicators (check he	Depth: g well, aer 2% slope icator or confirm Color (10YR	es, occa the absence of Matrix (Moist) 4/1 cators ar	sionally fluindicators.) (Typ	ooded e: C=Concentrat 10YR sent □ ly Gleyed I ly Redox	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15 Indicators	N/A Type C for Problem A16 - Coast S7 - Dark S6	Location M natic Soils Prairie Redox	Texi (e.g. clay, s clay - - - -	sand, loam loam
Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	eent? ed Data (stre e: ption (Describe to I) Bottom Depth 6 Soil Field In A1- Histosol A2 - Histic Er A3 - Black Hi	Shoals silt loam, O- he depth needed to document the Ind Horizon 1 dicators (check he objeedon stic	Depth: g well, aer 2% slope icator or confirm Color (10YR	es, occa the absence of Matrix (Moist) 4/1 cators ar	sionally fluindicators.) (Typ	10YR	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15 Indicators	N/A Type C for Problem A16 - Coast S7 - Dark St F12 - Iron-M	Location M	Texi (e.g. clay, s clay - - - - -	sand, loam loam
Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	eent? eed Data (stre bition (Describe to the street) Bottom Depth 6 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge	Shoals silt loam, 0- he depth needed to document the ind Horizon 1 dicators (check he bipedon stic n Sulfide	Depth: g well, aer 2% slope icator or confirm Color (10YR	es, occa the absence of Matrix (Moist) 4/1 cators ar	sionally fluindicators) (Typ	10YR	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15	N/A Type C	Location M	Texi (e.g. clay, s clay - - - - -	sand, loam loam
Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	eent? eed Data (stree bition (Describe to	Shoals silt loam, 0- he depth needed to document the ind Horizon 1 dicators (check he object on Sulfide It Layers	Depth: g well, aer 2% slope icator or confirm Color (10YR	es, occa the absence of Matrix (Moist) cators ar	sionally flindicators.) (Type standards)	10YR	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15 Indicators	N/A Type C	Location M	Texi (e.g. clay, s clay - - - - -	sand, loam loam
Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	sent? ded Data (stre bit on (Describe to the street of t	Shoals silt loam, 0- ne depth needed to document the Ind Horizon 1 dicators (check he objeedon stic no Sulfide tayers luck	Depth: g well, aer 2% slope licator or confirm Color (10YR	es, occa the absence of Matrix (Moist) cators ar	sionally fl indicators.) (Typ % 85 re not pre \$4 - Sanc \$5 - Sanc \$6 - Strip F1 - Loan F3 - Depli	ooded e: C=Concentrat 10YR sent □ ly Gleyed I ly Redox ped Matrix ny Muck M ny Gleyed eted Matrix	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15	N/A Type C	Location M	Texi (e.g. clay, s clay - - - - -	sand, loam loam
Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	eent? ed Data (stre e: ption (pescribe to	Shoals silt loam, O- he depth needed to document the ind Horizon 1 dicators (check he objedon stic in Sulfide d Layers luck and Below Dark Surface	Depth: g well, aer 2% slope licator or confirm Color (10YR	surface rial photo es, occa the absence of Matrix (Moist) 4/1 cators ar	sionally findicators.) (Typ	10YR	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6): Matrix K rface	Covered/Coated Sand Gra OX Features % 15	N/A Type C	Location M	Texi (e.g. clay, s clay - - - - -	sand, loam loam
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Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	sent? led Data (stre bition (Describe to the Bottom Depth 6	Shoals silt loam, 0- he depth needed to document the ind Horizon 1 dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface luck Mineral	Depth: g well, aer 2% slope licator or confirm Color (10YR	surface rial photo es, occa the absence of Matrix (Moist) 4/1 cators ar	sionally findicators.) (Typ	10YR	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15 Indicators	N/A Type C	Location M	Texi (e.g. clay, s clay - - - - - - - - -	eand, loam loam
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Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric Restrictive Layer (If Observed)	sent? led Data (stre bition (Describe to II Bottom Depth 6	Shoals silt loam, O- he depth needed to document the ind Horizon 1 dicators (check he bipedon stic in Sulfide I Layers luck and Below Dark Surface luck Mineral cky Peat or Peat	Depth: g well, aer 2% slope Color 10YR	es, occa the absence of Matrix (Moist) 4/1	sionally fluindicators.) (Type % 85	10YR	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15	N/A Type C C	Location M	(e.g. clay, s clay	loam loam loam loam loam loam loam loam
Saturation Press Describe Record Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	sent? led Data (stre bition (Describe to II Bottom Depth 6	Shoals silt loam, O- he depth needed to document the ind Horizon 1 dicators (check he bipedon stic in Sulfide I Layers luck and Below Dark Surface luck Mineral cky Peat or Peat	Depth: g well, aer 2% slope Color 10YR	es, occa the absence of Matrix (Moist) 4/1	sionally fluindicators.) (Type % 85	10YR	ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 5/6	Covered/Coated Sand Gra OX Features % 15	N/A Type C C	Location M	(e.g. clay, s clay	loam loam loam loam loam loam loam loam



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 19 Sample Point: SP 44 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. **Prevalence Index Worksheet** 8. --9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 95 (A) 190 __(B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * 90 Phalaris arundinacea **FACW** * Indicators of hydric soil and wetland hydrology must be Cyperus esculentus 2. 5 Ν **FACW** present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** --5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 95 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Stantec Project #: 193707328 01/02/20 Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Date: Applicant: American Electric Power (AEP) County: Licking Investigator #1: Kate Bomar Investigator #2: Matt Denzler State: Ohio NWI/WWI Classification: none Wetland 19 Soil Unit: Shoals silt loam, 0-2% slopes, occasionally flooded Wetland ID: Landform: Local Relief: Linear Sample Point: SP 45 Terrace Slope (%): Latitude: 40.313027 Longitude: -82.501453 Datum: WGS 84 Community ID: UPL Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed?

Are Vegetation, Soil, or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Ye<u>s □ No</u> Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present :): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? □ Yes ☑ (in.) Nο Depth: Wetland Hydrology Present? □ Yes □ No □ Yes Water Table Present? . No Depth: (in.) Saturation Present? □ Yes 🛮 No Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Map Unit Name: Shoals silt loam, 0-2% slopes, occasionally flooded Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 10YR 60 0 10 4/2 sand 10YR 5/6 40 sand NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleyed Matrix Other (Explain in Remarks) A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: fill Depth: 10" (If Observed) Remarks: sandy gravel



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 19 Sample Point: SP 45 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 95 380 UPL spp. x 5 = 25 2 3. Total 100 (A) 405 (B) --4. 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation □ No 10 --□ Yes Dominance Test is > 50% Total Cover = ☑ No Prevalence Index is ≤ 3.0 * Yes ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Setaria faberi 25 **FACU** * Indicators of hydric soil and wetland hydrology must be 2. Trifolium pratense 10 Ν **FACU** present, unless disturbed or problematic. 3. Ν UPL Glycine max 5 4. Schedonorus arundinaceus 50 **FACU Definitions of Vegetation Strata:** 5. Dipsacus fullonum 10 Ν **FACU** 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15

Additional Remarks:			

Hydrophytic Vegetation Present - Yes - No

Total Cover =

Total Cover =

Woody Vine Stratum (Plot size: 30 ft radius)

2

3. 4. 5.

Remarks:

100

0



Project/Site: Stantec Project #: 193707328 01/03/20 North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Date: Applicant: American Electric Power (AEP) County: Knox Investigator #1: Kate Bomar Investigator #2: Matt Denzler State: Ohio Bennington silt loam, 2-6% slopes NWI/WWI Classification: none Wetland 20 Soil Unit: Wetland ID: Landform: Local Relief: Concave Sample Point: SP 46 Depression Slope (%): Latitude: 40.31908 Longitude: -82.319075 Datum: WGS 84 Community ID: PEM Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Yes □ No Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table \Box B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants 2 A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? Yes □ Nο Depth: 1 (in.) Wetland Hydrology Present? Yes □ No Water Table Present? Yes □ * No Depth: surface (in.) Saturation Present? □ Yes □ No Depth: surface (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Bennington silt loam, 2-6% slopes Map Unit Name: Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location clay loam 10YR 90 10YR 0 16 5/1 5/6 10 C M NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleyed Matrix Other (Explain in Remarks) 7 A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



Woody Vine Stratum (Plot size: 30 ft radius)

Total Cover =

0

2

3. 4. 5.

Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 20 Sample Point: SP 46 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9. __ --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 20 60 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Salix nigra 5 **OBL** UPL spp. x 5 = 25 2 230 __(B) 3. Total 100 (A) --4. 2.300 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Yes □ No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * **FACW** Phalaris arundinacea 55 * Indicators of hydric soil and wetland hydrology must be 2. Panicum virgatum FAC present, unless disturbed or problematic. 3. Alliaria petiolata Ν UPL 5 Cyperus esculentus 4. 15 Ν **FACW Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 95

Additional Remarks:	

Hydrophytic Vegetation Present Yes No



Are Vegetation Are Vegetation SUMMARY OF Hydrophytic Veg Wetland Hydrol	American E Nathan No Benningtor Rise 1 drologic conc , Soil , Soil , FINDINGS getation Pre	Latitude Latitude ditions on the site ty or Hydrology - sic or Hydrology - na	opes : 40.31901 /pical for gnificantly	Loc Loc this time	gator #2: al Relief: congitude: of year? ed? ic?	Rohini \\ \text{N} Linear -82.500: (If no, explain	JWI/WWI Classification: 531 in in remarks) Are normal circumstar Yes	Datum: Yes nces present? No	Present?	Date: County: State: Wetland ID: Sample Point: Community ID: Section: Township: Range:	
Remarks:											
HYDROLOGY											
Wetland Hydro	A1 - Surface A2 - High Wa A3 - Saturati B1 - Water M B2 - Sedime B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundati	ater Table on larks nt Deposits posits at or Crust	agery		B9 - Wate B13 - Aqu B14 - Tru C1 - Hydr C3 - Oxid C4 - Pres	er-Stained latic Fauna e Aquatic I logen Sulfi lized Rhizo ence of Re ent Iron Re Muck Surf ge or Well	Plants de Odor spheres on Living Roots educed Iron duction in Tilled Soils ace Data			B6 - Surface So B10 - Drainage C2 - Dry-Seaso C8 - Crayfish Bt C9 - Saturation D1 - Stunted or D2 - Geomorphi D5 - FAC-Neutr	Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants ic Position
Field Observat Surface Water I Water Table Pro Saturation Pres	Present? esent? eent?	□ Yes □ No □ Yes □ No □ Yes □ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hyd		esent? ¬	Yes □ No
	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:											
SOILS											
Map Unit Name		Bennington silt loa									
		he depth needed to document the in	dicator or confirm		indicators.) (Typ	e: C=Concentrat	ion, D=Depletion, RM=Reduced Matrix, CS=C		ns; Location: PL=Po	ore Lining, M=Matrix)	Texture
Top Depth	Bottom Depth	Horizon	Color	Matrix (Moist)	0/			ox Features	Туре		
0	16						Color (Moist)	· //		Location	(e.g. clav. sand. loam)
			1		% 100		Color (Moist)	% 	Type 	Location 	(e.g. clay, sand, loam)
			10YR	4/3	100						(e.g. clay, sand, loam) silty clay loam
			10YR	4/3	100						silty clay loam
			10YR 	4/3	100						silty clay loam
			10YR 	4/3	100 					 	silty clay loam
		 	10YR 	4/3 	100 	 			 		silty clay loam
	 	 	10YR 	4/3 	100 	 					silty clay loam
	 	 	10YR	4/3 	100 	 	 	 			silty clay loam
			10YR	4/3 	100 e not pre 84 - Sanc S5 - Sanc S6 - Strip F1 - Loam F3 - Depli	sent by Gleyed by Redox by Muck My Gleyed Matrix by Muck Mry Gleyed eted Matrix by Dark Su beted Dark					silty clay loam
			10YR	4/3	100 e not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	sent by Gleyed by Redox by Muck My Gleyed Matrix by Muck Mry Gleyed eted Matrix by Dark Su beted Dark			for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla		silty clay loam
NRCS Hydric:			10YR	4/3	100 e not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	sent by Gleyed by Redox by Muck My Gleyed Matrix by Muck Mry Gleyed eted Matrix by Dark Su beted Dark		Indicators	for Problem A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla		silty clay loam



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 20 Sample Point: SP 47 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 90 360 UPL spp. x 5 = 2 3. Total 100 (A) 385 (B) --4. 5. Prevalence Index = B/A = 3.850 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Schedonorus arundinaceus 55 Ν **FACU** * Indicators of hydric soil and wetland hydrology must be 2. Cyperus esculentus 5 Ν **FACW** present, unless disturbed or problematic. 3. Ν FAC Alliaria petiolata 5 4. 15 Ν **FACU Definitions of Vegetation Strata:** Lolium perenne 5. Phleum pratense 20 **FACU** 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Project/Site: Stantec Project #: 193707328 01/03/20 North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Date: Applicant: American Electric Power (AEP) County: Knox Investigator #1: Nathan Noland Investigator #2: Rohini Vembar State: Ohio NWI/WWI Classification: Wetland 21 Soil Unit: Sebring silt loam Wetland ID: Landform: Local Relief: Concave Sample Point: SP 48 Depression Slope (%): Latitude: 40.32154 Longitude: -82.499933 Datum: WGS 84 Community ID: PEM Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: N/A Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation, Soil , or Hydrology naturally problematic? Are normal circumstances present? Township: N/A Yes ΝĐ N/A Range: N/A Dir: SUMMARY OF FINDINGS Hydrophytic Vegetation Present? □ Yes □ No Hydric Soils Present? Yes □ No Wetland Hydrology Present? □ Yes □ No Is This Sampling Point Within A Wetland? Remarks: **HYDROLOGY** Wetland Hydrology Indicators (Check here if indicators are not present -): Secondary: Primary: A1 - Surface Water B6 - Surface Soil Cracks B9 - Water-Stained Leaves A2 - High Water Table \Box B13 - Aquatic Fauna B10 - Drainage Patterns B14 - True Aquatic Plants 2 A3 - Saturation C2 - Dry-Season Water Table B1 - Water Marks C1 - Hydrogen Sulfide Odor C8 - Crayfish Burrows C3 - Oxidized Rhizospheres on Living Roots C9 - Saturation Visible on Aerial Imagery B2 - Sediment Deposits B3 - Drift Deposits C4 - Presence of Reduced Iron D1 - Stunted or Stressed Plants B4 - Algal Mat or Crust C6 - Recent Iron Reduction in Tilled Soils D2 - Geomorphic Position C7 - Thin Muck Surface D5 - FAC-Neutral Test B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery D9 - Gauge or Well Data B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) Field Observations: Surface Water Present? □ Yes ☑ Nο Depth: (in.) Wetland Hydrology Present? Yes □ No Water Table Present? 7 2" Yes No Depth: (in.) Saturation Present? □ Yes □ No Depth: surface (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Map Unit Name: Sebring silt loam Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Texture Top **Bottom** Matrix Redox Features (e.g. clay, sand, loam) Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location 10YR 88 10YR silty clay loam 0 16 5/2 4/6 12 С M NRCS Hydric Soil Field Indicators (check here if indicators are not present Indicators for Problematic Soils 1 A1- Histosol S4 - Sandy Gleved Matrix A16 - Coast Prairie Redox A2 - Histic Epipedon S5 - Sandy Redox S7 - Dark Surface A3 - Black Histic S6 - Stripped Matrix F12 - Iron-Manganese Masses A4 - Hydrogen Sulfide F1 - Loamy Muck Mineral TF12 - Very Shallow Dark Surface A5 - Stratified Lavers F2 - Loamy Gleved Matrix Other (Explain in Remarks) 7 A10 - 2 cm Muck F3 - Depleted Matrix A11 - Depleted Below Dark Surface F6 - Redox Dark Surface A12 - Thick Dark Surface F7 - Depleted Dark Surface S1 - Sandy Muck Mineral F8 - Redox Depressions S3 - 5 cm Mucky Peat or Peat 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problem Restrictive Layer Hydric Soil Present? □ Yes □ No Type: Depth: (If Observed) Remarks:



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 21 Sample Point: SP 48 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. 0 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ 20 80 UPL spp. x 5 = 2 3. Total 100 (A) 225 (B) --4. 5. Prevalence Index = B/A = 2.250 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes ☑ No Rapid Test for Hydrophytic Vegetation 10 □ No --2 Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Carex vulpinoidea 60 **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Schedonorus arundinaceus 10 Ν **FACU** present, unless disturbed or problematic. 3. 15 Ν OBL Juncus effusus 4. Cyperus esculentus 5 Ν **FACW Definitions of Vegetation Strata:** 5. Phleum pratense 10 Ν **FACU** 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 100 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present Yes No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



NRCS Hydric NRCS Hydric Restrictive Layer (If Observed) Remarks:	Soil Field In A1- Histosol A2- Histic E; A3- Black Hi A4- Hydroge A5- Stratifier A10-2 cm M A11- Deplet A12- Thick E S1- Sandy M	dicators (check he pipedon stic in Sulfide d Layers luck ed Below Dark Surface Dark Surface	 ere if indid	cators at	S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple	ly Gleyed I ly Redox ped Matrix ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark	Matrix ineral Matrix c rface Surface		A16 - Coast S7 - Dark Si F12 - Iron-M TF12 - Very Other (Expla	langanese Massi Shallow Dark St ain in Remarks)	es urface
NRCS Hydric	Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mu	dicators (check he pipedon stic in Sulfide d Layers luck ed Below Dark Surface bark Surface fuck Mineral	 ere if indid		S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	ly Gleyed I ly Redox ped Matrix ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark	Matrix ineral Matrix c rface Surface	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	A16 - Coast S7 - Dark Si F12 - Iron-M TF12 - Very Other (Expla	Prairie Redox urface langanese Massi Shallow Dark Si ain in Remarks)	es urface present, unless disturbed or problematic.
NRCS Hydric	Soil Field In A1- Histosol A2- Histic E; A3- Black Hi A4- Hydroge A5- Stratifier A10-2 cm M A11- Deplet A12- Thick E S1- Sandy M	dicators (check he pipedon stic in Sulfide d Layers luck ed Below Dark Surface bark Surface fuck Mineral	 ere if indid		S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	ly Gleyed I ly Redox ped Matrix ny Muck M ny Gleyed eted Matrix ox Dark Su eted Dark	Matrix ineral Matrix c rface Surface		A16 - Coast S7 - Dark Si F12 - Iron-M TF12 - Very Other (Expla	Prairie Redox urface langanese Massi Shallow Dark Si ain in Remarks)	es urface
 NRCS Hydric	Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm N	dicators (check ho bipedon stic on Sulfide d Layers luck	 ere if indid		S4 - Sand S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple	ly Gleyed I ly Redox ped Matrix ny Muck M ny Gleyed eted Matrix	Matrix ineral Matrix		A16 - Coast S7 - Dark Si F12 - Iron-W TF12 - Very	Prairie Redox urface langanese Masso Shallow Dark So	 es
	 Soil Field In						,				
			+								
		<u></u>	10YR	3/1	40						silty clay loam
6	16	2 2	10YR	4/2 3/1	100 40						silty clay loam
0	6	1	10YR	4/2	90	10YR	5/6	10	С	М	silty clay loam
Depth	Depth	Horizon	Color	(Moist)	%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
Top	Bottom	, a document the h		Matrix		2 2 2 1 1 O S 1 O S	Redo	ox Features	,	g manny	Texture
Map Unit Name Profile Descrip		Sebring silt loam	ndicator or confirm	the absence of	findicators) (Tun	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Grai	ns: Location PI =Pr	ore Lining, M=Matrix\	
SOILS	· ·	Sobring cilt loans									
Remarks:											
Describe Record	ed Data (stre	am gauge, monitorir	ng well, aei	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Field Observat Surface Water Water Table Pr Saturation Pres	Present? esent?	□ Yes □ No □ Yes □ No □ Yes □ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Are Vegetation SUMMARY OF Hydrophytic Ve Wetland Hydrol Remarks: HYDROLOGY Wetland Hydrol Primary	ology Indica A1 - Surface A2 - High Was B1 - Water M B2 - Sedimer B3 - Drift De; B4 - Algal M B5 - Iron De; B7 - Inundati	sent? ? ators (Check here water Table on larks at Deposits posits at or Crust	if indicato	□ Yes	ot presen B9 - Wate B13 - Aqu B14 - Truc C1 - Hydr C3 - Oxid C4 - Press	t in the contract of the contr	Plants Plants de Odor spheres on Living Roots duced Iron duction in Tilled Soils ace Data	Hydric Soils Is This Samp		B6 - Surface So B10 - Drainage C2 - Dry-Seaso C8 - Crayfish Bi C9 - Saturation	Patterns n Water Table urrows Visible on Aerial Imagery Stressed Plants ic Position
		or Hydrology □ si				(if no, expia	Are normal circumsta			Township:	N/A
Slope (%):	0 dralogio cons	Latitude litions on the site ty	: 40.32139		ongitude:			Datum: ☐ Yes ☐	WGS 84 No	Community ID: Section:	UPL N/A
Landform:	Side slope	loam		Loc	al Relief:		WWW.WWW.Classification.	TIONE		Sample Point:	
	Nate NolanSebring silt			Invest	gator #2:		<mark>/embar</mark> IWI/WWI Classification:	none		State: Wetland ID:	Ohio Wetland 21
Investigator #1: Soil Unit:	American E	Electric Power (AEF			•		•	100101020		County:	Knox
		- Onarp Road 150 KV 11		Line Rehi	uild Project		Stantec Project #:	193707328		Date:	01/03/20



Project/Site: North Newark- Sharp Road 138 kV Line Rebuild Project Wetland ID: Wetland 21 Sample Point: SP 49 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B) 7. 8. --**Prevalence Index Worksheet** 9. --Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) x 4 = FACU spp. _ 45 180 Rubus occidentalis 10 **UPL** UPL spp. 20 x 5 = 100 2 3. Total 95 (A) 345 (B) --4. 5. Prevalence Index = B/A = 3.632 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation □ No 10 --□ Yes Dominance Test is > 50% Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * ☑ No Morphological Adaptations (Explain) * Yes ☑ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Prunella vulgaris 5 Ν **FAC** * Indicators of hydric soil and wetland hydrology must be 2. Schedonorus arundinaceus 45 Υ **FACU** present, unless disturbed or problematic. 3. 10 UPL Solidago canadensis Ν Cyperus esculentus 4. 25 **FACW Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 85 Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Project/Site: Applicant:		Sharp Road 138 kV Tr ectric Power (AEF			•		Stantec Project #:	193707328		Date: County:	01/03/20 Knox	
nvestigator #1:	Nathan Nola	nd		Investi	gator #2:	Rohini V	/embar			State:	Ohio	
Soil Unit:	Condit silt lo	am, 0-1% slopes				N	WI/WWI Classification:			Wetland ID:	Wetland 22	
Landform:	Depression			Loc	al Relief:	Concave	е			Sample Point:	SP 50	
Slope (%):	1	Latitude	40.33547	Lo	ongitude:	-82.4987	724	Datum:	WGS 84	Community ID:	PEM	
Are climatic/hyd	rologic condit	ions on the site ty	pical for	this time	of year?	(If no, expla	nin in remarks)	☑ Yes □	No	Section:	N/A	
		r Hydrology 🗆 sig					Are normal circumsta	nces present?	?	Township:	N/A	
		r Hydrology □ na					□ Yes	NÐ		Range:	N/A Di	: N/A
UMMARY OF F		Triyarology ha	ituruny pr	obicinati	0:					rtange.	IN// DI	. 14/7
		- m+O		- V	- No			Lludria Caila	Dunnanto		- V	N
Hydrophytic Vec		ent?		□ Yes				Hydric Soils		\A('(1 ' A \A(' (1		s 🗆 N
<u>Wetland Hydrolo</u> Remarks:	ogy Present?			□ Yes	□ No			is this Samp	oling Point	Within A Wetla	and? "Ye	es • N
IYDROLOGY												
-	ology Indicat	ors (Check here i	f indicato	rs are no	ot presen	t 🗆):						
Primary:				_	DO 14/ /	0			Secondary:			
	A1 - Surface W					er-Stained				B6 - Surface Sc		
	A2 - High Wate A3 - Saturation					ıatic Fauna e Aquatic F				B10 - Drainage C2 - Dry-Seaso		
	B1 - Water Ma					ogen Sulfi				C8 - Crayfish B		
	B2 - Sediment						spheres on Living Roots			C9 - Saturation		ial Image
	B3 - Drift Depo						educed Iron			D1 - Stunted or		
	B4 - Algal Mat	or Crust			C6 - Rece	ent Iron Re	duction in Tilled Soils			D2 - Geomorph	ic Position	
	B5 - Iron Depo					Muck Surf				D5 - FAC-Neutr	ral Test	
		Visible on Aerial Im				ge or Well						
	B8 - Sparsely \	Vegetated Concave S	Surface		Other (Ex	plain in Re	emarks)					
Surface Water F	Present?	□ Yes 🗵 No	Depth:		(in.)			Watland Hy	drology Dr	ocont?	Voc - N	•
Surface Water F Water Table Pre Saturation Prese	esent?	□ Yes □ No □ Yes □ No □ Yes □ No	Depth:		(in.)			Wetland Hyd	drology Pr	resent?	Yes □ No)
Water Table Pre Saturation Prese	esent? ent?	Yes No	Depth: Depth:	3" surface	(in.) (in.)	s inspectio	ons), if available:		drology Pr	resent?	Yes □ No)
Water Table Pre Saturation Prese	esent? ent?	□ Yes □ No	Depth: Depth:	3" surface	(in.) (in.)	s inspectio	ons), if available:			resent?	Yes □ No)
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Vater Table Present Saturation Present Sescribe Recorder Remarks: OILS Map Unit Name: Profile Descrip Top Depth 0	esent? ent? ent Onta (streated Data	Yes No Yes No m gauge, monitorin Condit silt loam, 0- depth needed to document the in Horizon	Depth: Depth: g well, ae 1% slope dicator or confirm Color 10YR	3" surface rial photo	(in.) (in.) s, previou	e: C=Concentrati	ion, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist) 4/4	Covered/Coated Sand Grai	N/A N/A ins; Location: PL=P Type C	ore Lining, M=Matrix) Location M	Tex (e.g. clay, s	ture and, loa y loam
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Water Table Presenter Table Pr	esent? ent? ent O Data (strea	Yes No Yes No Manage, monitorin Condit silt loam, O- depth needed to document the in Horizon	Depth: Depth: Depth: g well, ae 1% slope Color 10YR	3" surface rial photo	(in.) (in.) s, previous indicators.) (Typ % 95	e: C=Concentrati	con, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS= Reduc	Covered/Coated Sand Grail OX Features % 5 Indicators	N/A ins; Location: PL=P Type C	Location M	Tex (e.g. clay, s silty cla	ture and, loam - - -
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Vater Table Presenter Table Presenter Table Presenter Table Records Remarks: OILS Map Unit Name: Profile Descrip Top Depth 0 NRCS Hydric S	esent? ent? ent O Data (streated Dat	Yes No Yes No Yes No m gauge, monitorin Condit silt loam, 0- depth needed to document the in Horizon licators (check he pedon tic Sulfide Layers ck	Depth: Depth: Depth: g well, ae 1% slope dicator or confirm Color 10YR ere if indic	surface rial photo Ses the absence of Matrix (Moist) 4/1 cators ar	(in.) (in.) s, previou indicators.) (Typ 96 95 en ot pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F3 - Depli	10YR sent □ ly Gleyed I ly Redox ped Matrix ny Muck M ny Gleyed eted Matrix	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist) 4/4	Covered/Coated Sand Grail OX Features % 5 Indicators	N/A Type C 5 for Probler A16 - Coast \$7 - Dark \$5 Type C TF12 - Very	Location M	Tex (e.g. clay, s silty cla	ture and, loam - - -
Water Table Preserved Saturation Profile Descrip Top Depth 0 NRCS Hydric S	esent? ent? ent? ent Onta (streat tion (Describe to the Bottom Depth 16 Soil Field Ind A1- Histosol A2 - Histic Epi A3 - Black Hist A4 - Hydrogen A5 - Stratified A10 - 2 cm Mu A11 - Depleted	Yes No Yes No Yes No m gauge, monitorin Condit silt loam, 0- depth needed to document the in Horizon licators (check he pedon cic Sulfide Layers ck I Below Dark Surface	Depth: Depth: Depth: g well, ae 1% slope dicator or confirm Color 10YR ere if indic	3" surface rial photo	(in.) (in.) s, previou indicators.) (Typ % 95	e: C=Concentrati	ion, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS=	Covered/Coated Sand Grail OX Features % 5 Indicators	N/A Type C 5 for Probler A16 - Coast \$7 - Dark \$5 Type C TF12 - Very	Location M	Tex (e.g. clay, s silty cla	ture and, loam - - -
Water Table Presenter Saturation Saturation Presenter Saturation Present	esent? ent? ent? ent of Data (streated Data (streat	Yes No Yes No Yes No m gauge, monitorin Condit silt loam, Odepth needed to document the in Horizon	Depth: Depth: Depth: g well, ae 1% slope dicator or confirm Color 10YR ere if indic	3" surface rial photo Ses the absence of Matrix (Moist) 4/1 cators ar	(in.) (in.) s, previou indicators) (Typ % 95 e not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	e: C=Concentrati	non, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS= Reduced Matrix, CS= Reduced Matrix, CS=	Covered/Coated Sand Grail OX Features % 5 Indicators	N/A Type C 5 for Probler A16 - Coast \$7 - Dark \$5 Type C TF12 - Very	Location M	Tex (e.g. clay, s silty cla	ture and, loam - - -
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Water Table Presenter Table Presenter Table Presenter Table Presenter Table Presenter Table Presenter Table Profile Descripe Top Depth O	esent? ent? ent of Data (streated Da	Yes No Yes No Yes No m gauge, monitorin Condit silt loam, O- depth needed to document the in Horizon	Depth: Depth: Depth: g well, ae 1% slope dicator or confirm Color 10YR ere if indic	3" surface rial photo Ses the absence of Matrix (Moist) 4/1 cators ar	(in.) (in.) s, previou indicators) (Typ % 95 e not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loan F2 - Loan F3 - Depli F6 - Redc F7 - Depli	e: C=Concentrati	non, D=Depletion, RM=Reduced Matrix, CS= Reduced Matrix, CS= Reduced Matrix, CS= Reduced Matrix, CS=	Covered/Coated Sand Grai OX Features % 5 Indicators	N/A ins; Location: PL=P Type C	Location M	Tex (e.g. clay, s silty cla	ture sand, los y loam



Woody Vine Stratum (Plot size: 30 ft radius)

Total Cover =

0

2

3. 4. 5.

Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 22 Sample Point: SP 50 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7. 8. --**Prevalence Index Worksheet** Total % Cover of: 9 __ --Multiply by: 10. OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = FAC spp. 15 x 3 = 45 x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ Cornus amomum 10 **FACW** UPL spp. x 5 = 2 3. Total 115 (A) 234 (B) --4. 5. Prevalence Index = B/A = 2.035 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --Yes Dominance Test is > 50% Total Cover = Yes □ No Prevalence Index is ≤ 3.0 * ¥ □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Carex vulpinoidea 35 **FACW** * Indicators of hydric soil and wetland hydrology must be 2. Symphyotrichum lateriflorum 15 Ν **FACW** present, unless disturbed or problematic. 3. 20 Ν FACW Carex cristatella 10 Ν FAC **Definitions of Vegetation Strata:** 4. Panicum virgatum OBL 5. Scirpus cyperinus 2 Ν 6 Vernonia gigantea 5 Ν FAC Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 10 **OBL** 7 Persicaria hydropiperoides N 8. Eupatorium perfoliatum 5 Ν OBL Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. Cirsium arvense Ν **FACU** 3 10. 11. __ Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover =

Additional Remarks:		

Hydrophytic Vegetation Present Yes No



Project/Site:	North Newark	- Sharp Road 138 kV Tra	ansmission	Line Rebu	uild Project		Stantec Project #:	193707328		Date:	01/03/20
Applicant:		Electric Power (AEP			,					County:	Knox
Investigator #1:			,	Investi	gator #2:	Rohini \	/embar			State:	Ohio
Soil Unit:		t loam, 12-18% sloj	pes. eroc	ded	<u> </u>		IWI/WWI Classification:			Wetland ID:	Wetland 22
Landform:	Rise	, -	,		al Relief:	Linear				Sample Point:	SP 51
Slope (%):	1	Latitude:	40.33508	Lo	ongitude:	-82.498	671	Datum:	WGS 84	Community ID:	
	Irologic conc	litions on the site ty						□ Yes □	No	Section:	N/A
		or Hydrology □ sig				(Are normal circumstar	nces present'		Township:	N/A
		or Hydrology □ na					□ Yes	N⊎	•	Range:	N/A Dir: N/A
SUMMARY OF F		or riyarology ha	turuny pr	obicinat				. 10		range.	TUTY DII. TUTY
Hydrophytic Ved		cont?		- Voc	□ No			Hydric Soils	Procent?		□ Yes □ No
Wetland Hydrold	9				□ No					Mithin A Matle	and? • Yes • No
Remarks:	ogy Present	!		- res	□ INO			is this sam	pling Point	within A wella	and? - Yes - No
Remarks.											
LIVERGLOOV											
HYDROLOGY	- l l l'		6 ili 4			t \-					
_		ators (Check here if	r indicato	rs are no	ot presen	τ):			Cd		
<u>Primary:</u> □	A1 - Surface	Water		п	B9 - Wate	r Stained	Leaves		Secondary:		oil Cracks
	A2 - High Wa			-	B13 - Aqu				_	B10 - Drainage	
	A3 - Saturation				B14 - True					C2 - Dry-Seaso	
	B1 - Water M	larks			C1 - Hydr	ogen Sulfi	de Odor			C8 - Crayfish B	
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						duced Iron				Stressed Plants
	B4 - Algal Ma B5 - Iron Dep				C6 - Rece		duction in Tilled Soils		_	D2 - Geomorph D5 - FAC-Neutr	
		องเเร on Visible on Aerial Im:	agery		D9 - Gaug					DO - FAC-NEUL	ui 163t
		/ Vegetated Concave S			Other (Ex						
					,		,				
Field Observati	ions:										
Surface Water F	Present?	□ Yes ☑ No	Depth:		(in.)						
Water Table Pre		□ Yes □ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes No
Saturation Prese		□ Yes □ No	Depth:		(in.)						
					. ,						
	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:											
SOILS											
Map Unit Name:	:	Amanda silt loam,	12-18%	slopes, e	eroded						
Profile Descrip			dicator or confirm	the absence of	indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	ains; Location: PL=Po	ore Lining, M=Matrix)	
I i ioine pescrip	tion (Describe to t	he depth needed to document the inc	alcator or commit								_
Top	Bottom	he depth needed to document the inc	alcator or commit	Matrix			Redo	ox Features			Texture
Тор	Bottom				%			ox Features %	Type	Location	
Top Depth	Bottom Depth	he depth needed to document the inc Horizon	Color	(Moist)	†		Color (Moist)		Type	Location	(e.g. clay, sand, loam)
Тор	Bottom	Horizon			% 100		Color (Moist)	%		1	
Top Depth 0	Bottom Depth 16	Horizon 	Color 10YR	(Moist) 3/2 	100		Color (Moist)	% 			(e.g. clay, sand, loam) silty clay loam
Top Depth 0	Bottom Depth 16	Horizon 	Color 10YR 	(Moist) 3/2 	100 		Color (Moist)	% 		 	(e.g. clay, sand, loam) silty clay loam
Top Depth 0	Bottom Depth 16	Horizon	Color 10YR 	3/2 	100 		Color (Moist)	% 	 	 	(e.g. clay, sand, loam) silty clay loam
Top	Bottom Depth 16	Horizon	Color 10YR 	3/2 	100 	 	Color (Moist)	% 		 	(e.g. clay, sand, loam) silty clay loam
Top	Bottom Depth 16	Horizon	Color 10YR 	(Moist) 3/2 	100 	 	Color (Moist)	%	 	 	(e.g. clay, sand, loam) silty clay loam
Top	Bottom Depth 16	Horizon	Color 10YR 	3/2 	100 	 	Color (Moist)	%	 	 	(e.g. clay, sand, loam) silty clay loam
Top Depth 0	Bottom Depth 16	Horizon	Color 10YR	(Moist) 3/2	100 		Color (Moist)	%	 		(e.g. clay, sand, loam) silty clay loam
Top Depth 0 NRCS Hydric S	Bottom	Horizon	Color 10YR	(Moist) 3/2 cators ar	100 re not pre	 sent □	Color (Moist)	% Indicators	s for Problem	 matic Soils ¹	(e.g. clay, sand, loam) silty clay loam
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In	Horizon dicators (check he	Color 10YR	(Moist) 3/2 cators ar	100 re not pre S4 - Sand	sent □	Color (Moist)	%			(e.g. clay, sand, loam) silty clay loam
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep	Horizon dicators (check he	Color 10YR	(Moist) 3/2 cators ar	100 e not pre S4 - Sand S5 - Sand	sent □ y Gleyed y Redox	Color (Moist)	%	s for Problen A16 - Coast S7 - Dark S6		(e.g. clay, sand, loam) silty clay loam
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi	Horizon dicators (check he	Color 10YR	(Moist) 3/2 cators ar	100 e not pre S4 - Sand S5 - Sand S6 - Stripp	sent □ y Gleyed y Redox ped Matrix	Color (Moist)	%			(e.g. clay, sand, loam) silty clay loam
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Horizon dicators (check he	Color 10YR	(Moist) 3/2	100 enot pre S4 - Sand S5 - Sartipp F1 - Loarn	sent Uy Gleyed by Redox ped Matrix Muck M	Color (Moist)	% Indicators			(e.g. clay, sand, loam) silty clay loam
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi	Horizon dicators (check he	Color 10YR	(Moist) 3/2	100 e not pre S4 - Sand S5 - Sand S6 - Stripp	sent □ Sent □ Sent □ Sent □ Welleyed I y Redox peed Matrix by Muck Muy Gleyed	Color (Moist)	%			(e.g. clay, sand, loam) silty clay loam
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	Horizon dicators (check here) pipedon stic en Sulfide d Layers luck ed Below Dark Surface	Color 10YR	(Moist) 3/2	100	sent y Gleyed ly Redox ped Matrix y Muck Mry Gleyed deted Matrix x Dark Su	Color (Moist)): Matrix frace	%			(e.g. clay, sand, loam) silty clay loam
Top	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm W A11 - Deplete A12 - Thick E	Horizon dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface	Color 10YR	(Moist) 3/2 cators ar	100	sent y Gleyed ly Redox y Muck M y Gleyed Matrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Color (Moist)	%			(e.g. clay, sand, loam) silty clay loam
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eq A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface	Color 10YR	(Moist) 3/2 cators ar	100	sent y Gleyed ly Redox y Muck M y Gleyed Matrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Color (Moist)	% Indicators			(e.g. clay, sand, loam) silty clay loam es
Top Depth O NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eq A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Horizon dicators (check here) stic en Sulfide d Layers luck ed Below Dark Surface Dark Surface	Color 10YR	(Moist) 3/2 cators ar	100	sent y Gleyed ly Redox y Muck M y Gleyed Matrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Color (Moist)	% Indicators Indicators of hydrophy			(e.g. clay, sand, loam) silty clay loam es surface
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eq A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface	Color 10YR	(Moist) 3/2 cators ar	100	sent y Gleyed ly Redox y Muck M y Gleyed Matrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Color (Moist)	% Indicators			(e.g. clay, sand, loam) silty clay loam es
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm W A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface	Color 10YR ere if indic	(Moist) 3/2 cators ar	100	sent y Gleyed ly Redox y Muck M y Gleyed Matrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Color (Moist)	% Indicators Indicators of hydrophy			(e.g. clay, sand, loam) silty clay loam es surface
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2- Histic Ep A3- Black Hi A4- Hydroge A5- Stratifier A10- 2 cm W A11- Deplete A12- Thick E S1- Sandy M S3- 5 cm ML	Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface	Color 10YR ere if indic	(Moist) 3/2 cators ar	100	sent y Gleyed ly Redox y Muck M y Gleyed Matrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Color (Moist)	% Indicators Indicators of hydrophy			(e.g. clay, sand, loam) silty clay loam es surface
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2- Histic Ep A3- Black Hi A4- Hydroge A5- Stratifier A10- 2 cm W A11- Deplete A12- Thick E S1- Sandy M S3- 5 cm ML	Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface	Color 10YR ere if indic	(Moist) 3/2 cators ar	100	sent y Gleyed ly Redox y Muck M y Gleyed Matrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Color (Moist)	% Indicators Indicators of hydrophy			(e.g. clay, sand, loam) silty clay loam es surface
Top Depth 0 NRCS Hydric S	Bottom Depth 16 Soil Field In A1- Histosol A2- Histic Ep A3- Black Hi A4- Hydroge A5- Stratifier A10- 2 cm W A11- Deplete A12- Thick E S1- Sandy M S3- 5 cm ML	Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface	Color 10YR ere if indic	(Moist) 3/2 cators ar	100	sent y Gleyed ly Redox y Muck M y Gleyed Matrix y Muck M y Gleyed eted Matrix x Dark Su eted Dark	Color (Moist)	% Indicators Indicators of hydrophy			(e.g. clay, sand, loam) silty clay loam es surface



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 22 Sample Point: SP 51 **VEGETATION** (Species identified in all uppercase are non-native species.) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7. 8. --**Prevalence Index Worksheet** 9 --Total % Cover of: Multiply by: 10. OBL spp. x 1 = --Total Cover = 0 FACW spp. x 2 = x 3 = FAC spp. x 4 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. _ UPL spp. x 5 = 2 3. Total 105 (A) 400 (B) --4. 3.810 5. Prevalence Index = B/A = 6. 7. 8. **Hydrophytic Vegetation Indicators:** 9. □ Yes No Rapid Test for Hydrophytic Vegetation 10 □ No --□ Yes Dominance Test is > 50% Total Cover = Yes ☑ No Prevalence Index is ≤ 3.0 * □ No Morphological Adaptations (Explain) * Yes □ No Herb Stratum (Plot size: 5 ft radius) □ Yes Problem Hydrophytic Vegetation (Explain) * Schedonorus arundinaceus 75 **FACU** * Indicators of hydric soil and wetland hydrology must be 2. 20 Ν FAC Poa pratensis present, unless disturbed or problematic. 3. Ν **FACU** Digitaria sanguinalis 5 4. 3 Ν **FACU Definitions of Vegetation Strata:** Trifolium repens Plantago lanceolata 5. Ν **FACU** 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. __ 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9. 10. 11. --Herb - All herbaceous (non-woody) plants, regardless of size, 12 and woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 2 Hydrophytic Vegetation Present - Yes - No 3. 4. 5. Total Cover = 0 Remarks: Additional Remarks:



Project/Site:	North Newark	c- Sharp Road 138 kV	Transmiss	sion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date:	01/13/21
Applicant:	American E	lectric Power (AEF	P)			•	•			County:	Licking
Investigator #1:		`	,	Invecti	gator #2:	Kata Bo	mar			State:	Ohio
								Mana			
Soil Unit:		loam, 0 to 2 percent slo	opes, occas				/WWI Classification:	None			Wetland 23
Landform:	Depression				al Relief:					Sample Point:	
Slope (%):	1	Latitude:	40.1	37665	Long	itude:	-82.462300	Datum:	WGS 84	Community ID:	PEM
Are climatic/hvo	rologic conc	litions on the site ty	/pical for	this time	of vear?	(If no. expla	in in remarks)	☑ Yes □	No	Section:	QSW
		or Hydrology □ sig					Are normal circumsta		_	Township:	T3N
Are Vegetation	, Soli = ,	or Thydrology - sig	Jillioailu	y uistuibi	eu:			•			
		or Hydrology <u>□</u> na	iturally pr	obiemai	IC?		✓ Yes	NŪ		Range:	R12W Dir: N/A
SUMMARY OF	FINDINGS										
Hydrophytic Ve	getation Pres	sent?			□ No			Hydric Soils	Present?		☑ Yes □ No
Wetland Hydrol					□ No					Nithin A Wetla	
	ogy i resent	•		- 100	- 110			15 THIS CUITIN	oning i onit	Wildilli / C VV Ctic	and: = 105 = 110
Remarks:											
HYDROLOGY											
		. (8)									
Wetland Hydro	ology Indica	i tors (Check here i	t indicato	ors are no	ot presen	t □):					
Primary:	<u>.</u>								Secondary:		
✓	A1 - Surface				B9 - Wate	er-Stained	Leaves			B6 - Surface So	il Cracks
√	A2 - High Wa	iter Table			B13 - Aqu	iatic Fauna	l			B10 - Drainage	Patterns
√	A3 - Saturation	on			B14 - True	e Aquatic I	Plants			C2 - Dry-Seaso	
	B1 - Water M	arks			C1 - Hydr	ogen Sulfi	de Odor			C8 - Crayfish Bu	urrows
	B2 - Sedimer	nt Deposits			C3 - Oxid	ized Rhizo	spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						duced Iron			D1 - Stunted or	
	B4 - Algal Ma				C6 - Rece	ent Iron Re	duction in Tilled Soils		y	D2 - Geomorphi	ic Position
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutr	
		on Visible on Aerial Im	agery		D9 - Gaud					DO 1710 11000	di 100t
		Vegetated Concave S			Other (Ex						
	Bo oparoor	vogotatoa comoavo v	oundoo	_	Outor (Ex	piaiii iii i te	markoj				
Field Observat	ions:										
Surface Water	Present?	☑ Yes □ No	Depth:	1	(in.)			Mada and Ha	da da ana Ba		V = N-
Water Table Pr		☑ Yes □ No	Depth:		(in.)			Wetland Hy	arology Pr	esent?	Yes □ No
Saturation Pres	ent?	✓ Yes □ No	Depth:	0	(in.)						
Describe Record	nd Data (ctro	., .									
		am gauge, monitorin	d well. ae	rial photo	s. previou	s inspecti	ons), if available:		N/A		
	eu Data (Sile	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	eu Data (Sile	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	eu Dala (Sile	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
	eu Dala (Sile	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	,			·		·	,		N/A		
Remarks: SOILS Map Unit Name	:	Sh: Shoals silt loar	m, 0 to 2	percent	slopes, o	ccasiona	lly flooded				
Remarks: SOILS Map Unit Name Profile Descrip	tion (Describe to t	Sh: Shoals silt loar	m, 0 to 2	percent	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=			re Lining, M=Matrix)	Touture
Remarks: SOILS Map Unit Name Profile Descrip Top	tion (Describe to t	Sh: Shoals silt loar	m, 0 to 2	percent the absence of Matrix	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red	lox Features	ins; Location: PL=Po		Texture
Remarks: SOILS Map Unit Name Profile Descrip	tion (Describe to t	Sh: Shoals silt loar	m, 0 to 2	percent	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=			re Lining, M=Matrix) Location	Texture (e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	tion (Describe to	Sh: Shoals silt loar	m, 0 to 2 dicator or confirm Color	percent the absence of Matrix (Moist)	slopes, o	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	lox Features %	ins; Location: PL=Po	Location	(e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	tion (Describe to	Sh: Shoals silt loar he depth needed to document the in Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/2	slopes, o	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8	lox Features % 4	Type	Location PL	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12	Bottom Depth 12 16	Sh: Shoals silt loar he depth needed to document the in Horizon 	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2	slopes, o	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	lox Features % 4 8	Type C C	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	tion (Describe to	Sh: Shoals silt loar he depth needed to document the in Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/2	slopes, o	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8	lox Features % 4	Type	Location PL	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12	Bottom Depth 12 16	Sh: Shoals silt loar he depth needed to document the in Horizon 	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2	slopes, o	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	lox Features % 4 8	Type C C	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12	Bottom Depth	Sh: Shoals silt loar he depth needed to document the in Horizon	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2	slopes, o	ccasiona e: C=Concentrat 10YR 10YR	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	Name	Type C C	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12	Bottom Depth 12 16	Sh: Shoals silt loar ne depth needed to document the in Horizon	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2	Slopes, O Indicators.) (Type % 96 92	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	8	Type C C	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12	Bottom Depth	Sh: Shoals silt loar he depth needed to document the in Horizon	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2	slopes, o	ccasiona e: C=Concentrat 10YR 10YR	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	S	Type C C	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12 NRCS Hydric	Bottom Depth 12 16 Soil Field In A1- Histosol A2 - Histic Ep	Sh: Shoals silt loar ne depth needed to document the in Horizon dicators (check he	m, 0 to 2 dicator or confirm Color 10YR 10YR ere if indi	percent the absence of Matrix (Moist) 4/2 4/2 cators ar	slopes, o indicators.) (Typ	CCASIONA e. C=Concentrat 10YR 10YR	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8); Matrix	No. No.	Type C C for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M	Sh: Shoals silt loar he depth needed to document the in Horizon dicators (check he bipedon stic n Sulfide d Layers uck	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent In the absence of Matrix (Moist) 4/2 4/2 cators ar	Slopes, o 10 10 10 10 10 10 10	ccasiona 10YR 10YR 10YR ly Gleyed I by Redox ped Matrix by Muck Mny Gleyed steed Matrix by William Color and the color and	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	No. No.	Type C C s for Problen A16 - Coast S7 - Dark St T12 - Iron-M TF12 - Very	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 16 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge A5 - Stratifier A11 - Deplete A12 - Thick E	Sh: Shoals silt loar no depth needed to document the in Horizon dicators (check he bipedon stic n Sulfide I Layers uck ad Below Dark Surface lark Surface	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2 cators ar	Slopes, o Indicators.) (Typ % 96 92	CCASIONA 10YR 10YR 10YR sent □ y Gleyed y Gleyed y Muck M y Gleyed Matrix y Muck M y Gleyed deted Matrix xo Dark Su xo Eted Dark	Ily flooded on D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	No. No.	Type C C s for Problen A16 - Coast S7 - Dark St T12 - Iron-M TF12 - Very	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplets A12 - Thick E S1 - Sandy M	Sh: Shoals silt loar ne depth needed to document the in Horizon dicators (check he oipedon stic n Sulfide d Layers uck de Below Dark Surface lark Surface	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 cators ar	Slopes, o Indicators. (Typ % 96 92	CCASIONA 10YR 10YR 10YR sent □ y Gleyed y Gleyed y Muck M y Gleyed Matrix y Muck M y Gleyed deted Matrix xo Dark Su xo Eted Dark	Ily flooded on D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	Marcology Marc	Type C C 5 for Problen A16 - Coast S7 - Dark St F12 - Iron-M Other (Expla	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplets A12 - Thick E S1 - Sandy M	Sh: Shoals silt loar no depth needed to document the in Horizon dicators (check he bipedon stic n Sulfide I Layers uck ad Below Dark Surface lark Surface	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2 cators ar	Slopes, o Indicators.) (Typ % 96 92	CCASIONA 10YR 10YR 10YR sent □ y Gleyed y Gleyed y Muck M y Gleyed Matrix y Muck M y Gleyed deted Matrix xo Dark Su xo Eted Dark	Ily flooded on D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	Marcology Marc	Type C C 5 for Problen A16 - Coast S7 - Dark St F12 - Iron-M Other (Expla	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplets A12 - Thick E S1 - Sandy M	Sh: Shoals silt loar ne depth needed to document the in Horizon dicators (check he oipedon stic n Sulfide d Layers uck de Below Dark Surface lark Surface	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2 cators ar	Slopes, o Indicators.) (Typ % 96 92	CCASIONA 10YR 10YR 10YR sent □ y Gleyed y Gleyed y Muck M y Gleyed Matrix y Muck M y Gleyed deted Matrix xo Dark Su xo Eted Dark	Ily flooded on D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	Marcology Marc	Type C C s for Problen A16 - Coast S7 - Dark	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 16 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Sh: Shoals silt loar ne depth needed to document the in Horizon dicators (check he oipedon stic n Sulfide d Layers uck de Below Dark Surface lark Surface	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2 cators ar	Slopes, o Indicators.) (Typ % 96 92	CCASIONA 10YR 10YR 10YR sent □ y Gleyed y Gleyed y Muck M y Gleyed Matrix y Muck M y Gleyed deted Matrix xo Dark Su xo Eted Dark	Ily flooded on D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	lox Features % 4 8 Indicators Indicators of hydrophy	Type C C s for Problen A16 - Coast S7 - Dark	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 16 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Sh: Shoals silt loar ne depth needed to document the in Horizon dicators (check he oipedon stic n Sulfide d Layers uck de Below Dark Surface lark Surface	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2 cators ar	Slopes, o Indicators.) (Typ % 96 92	CCASIONA 10YR 10YR 10YR sent □ y Gleyed y Gleyed y Muck M y Gleyed Matrix y Muck M y Gleyed deted Matrix xo Dark Su xo Eted Dark	Ily flooded on D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	lox Features % 4 8 Indicators Indicators of hydrophy	Type C C s for Problen A16 - Coast S7 - Dark	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 12 NRCS Hydric:	Bottom Depth 12 16 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Sh: Shoals silt loar ne depth needed to document the in Horizon dicators (check he oipedon stic n Sulfide d Layers uck de Below Dark Surface lark Surface	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2 cators ar	Slopes, o Indicators.) (Typ % 96 92	CCASIONA 10YR 10YR 10YR sent □ y Gleyed y Gleyed y Muck M y Gleyed Matrix y Muck M y Gleyed deted Matrix xo Dark Su xo Eted Dark	Ily flooded on D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	lox Features % 4 8 Indicators Indicators of hydrophy	Type C C s for Problen A16 - Coast S7 - Dark	Location PL PL	(e.g. clay, sand, loam) silty clay sandy clay



Woody Vine Stratum (Plot size: 30 ft radius)

1. 2. 3.

4. 5.

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 23 Sample Point: SP 52 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7 8. Prevalence Index Worksheet 9. Total % Cover of: Multiply by: 10 OBL spp. x 1 = FACW spp. Total Cover = 0 x 2 =20 40 FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. x 4 = x 5 = 1. UPL spp. 0 0 3. Total 95 115 (A) 4. Prevalence Index = B/A = 5. 1.211 6. 7. Hydrophytic Vegetation Indicators: 8. 9. Yes □ No Rapid Test for Hydrophytic Vegetation □ No 10 J Yes Dominance Test is > 50% Total Cover = 1 Yes □ No Prevalence Index is ≤ 3.0 * ☑ No □ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☑ No Problem Hydrophytic Vegetation (Explain) * Yes OBL Typha angustifolia * Indicators of hydric soil and wetland hydrology must be Persicaria pensylvanica 20 Ν **FACW** present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 9 3.28 ft. tall. 10 11 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14. 15. Woody Vines - All woody vines greater than 3.28 ft. in height. Total Cover =

Total Cover = 0	
Remarks:	•
Additional Remarks:	

Hydrophytic Vegetation Present ☑ Yes ☐ No



Project/Site:	North Newarl	k- Sharp Road 138 kV	Transmiss	sion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date:	01/13/21	
Applicant:	American E	Electric Power (AEP	')							County:	Licking	
Investigator #1:					gator #2:	Kate Bo	mar			State:	Ohio	
Soil Unit:	Sh: Shoals silt	loam, 0 to 2 percent slo	pes, occas	sionally floo	oded	NWI	/WWI Classification:	None		Wetland ID:	Wetland 23	
Landform:	Rise			Loc	al Relief:	Convex				Sample Point:	SP 53	
Slope (%):	1	Latitude:	40.1	37676	Long	itude:	-82.462382	Datum:	WGS 84	Community ID:	UPL	
	rologic conc	litions on the site ty						☑ Yes □	No	Section:	QSW	
		or Hydrology □ sig					Are normal circumsta	nces present?	>	Township:	T3N	
		or Hydrology □ na					✓ Yes	ND		Range:	R12W Dir: N/A	
SUMMARY OF		or riyarology = ria	tarany pi	obicinati			163	INO		range.	TCTZVV DII. TV//C	
Hydrophytic Ve		nont?		- Voc	- No			Hydric Soils	Dropont?		□ Yes ☑ No	0
					☑ No					A/:+l=: A \A/-+l=		
Wetland Hydrol	ogy Present	<u> </u>		□ Yes	☑ No			is this Samp	oling Point	Within A Wetla	ınd? 🔳 Yes 🛮 No	0
Remarks:												
HYDROLOGY												
Wetland Hydr	ology Indica	itors (Check here if	findicato	ors are no	ot presen	t 🗆).						
Primary		itoro (Oncor norch	maioate	no are m	ot prodon	/.			Secondary:			
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface So	il Cracks	
	A2 - High Wa				B13 - Aqu					B10 - Drainage		
	A3 - Saturation				B14 - True					C2 - Dry-Season		
	B1 - Water M				C1 - Hydr					C8 - Crayfish Bu		
	B2 - Sedimer	nt Deposits					spheres on Living Roots				Visible on Aerial Imager	ry
	B3 - Drift Dep	oosits					duced Iron			D1 - Stunted or		1
	B4 - Algal Ma				C6 - Rece	ent Iron Re	duction in Tilled Soils			D2 - Geomorphi	c Position	
	B5 - Iron Dep				C7 - Thin	Muck Surf	ace			D5 - FAC-Neutra	al Test	
	B7 - Inundation	on Visible on Aerial Ima	agery		D9 - Gaug	ge or Well	Data					
	B8 - Sparsely	Vegetated Concave S	Surface		Other (Ex	plain in Re	marks)					
Field Observat	ions:											
Surface Water	Drecent?	□ Yes ☑ No	Depth:		(in.)					_		
Water Table Pr		☐ Yes ☑ No						Wetland Hy	drology Pr	esent?	Yes ☑ No	
		□ Yes ☑ No	Depth:		(in.)							
Saturation Pres	ent?	□ Yes º No	Depth:		(in.)							
Describe Record	ad Data (etra	., .	- 11									
Describe record	eu Dala (sile	am gauge, monitoring	g weii, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A			
	ed Data (Sile	am gauge, monitoring	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A			
Remarks:	ed Data (Sile	am gauge, monitorin	g well, ae	erial photo	s, previou	s inspecti	ons), if available:		N/A			
Remarks:	ed Data (Sire	am gauge, monitorin	g weil, ae	erial photo	s, previou	s inspecti	ons), if available:		N/A			
Remarks:	,			·			,		N/A			
Remarks: SOILS Map Unit Name	:	Sh: Shoals silt loan	n, 0 to 2	percent	slopes, o	ccasiona	lly flooded					
Remarks: SOILS Map Unit Name Profile Descrip	tion (Describe to t	Sh: Shoals silt loan	n, 0 to 2	percent	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=0			ore Lining, M=Matrix)	Touturo	
Remarks: SOILS Map Unit Name Profile Descrip Top	tion (Describe to t	Sh: Shoals silt loan he depth needed to document the inc	n, 0 to 2	percent n the absence of Matrix	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu	ox Features	ins; Location: PL=Pc	1	Texture	
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	tion (Describe to	Sh: Shoals silt loan	n, 0 to 2	percent n the absence of Matrix (Moist)	slopes, o indicators.) (Typ	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=0			re Lining, M=Matrix) Location	Texture (e.g. clay, sand, loa	am)
Remarks: SOILS Map Unit Name Profile Descrip Top	tion (Describe to t	Sh: Shoals silt loan he depth needed to document the inc	n, 0 to 2	percent n the absence of Matrix	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu	ox Features	ins; Location: PL=Pc	1	1	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	tion (Describe to	Sh: Shoals silt loan he depth needed to document the inc Horizon	n, 0 to 2	percent n the absence of Matrix (Moist)	slopes, o indicators.) (Typ	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=0 Redo Color (Moist)	ox Features %	ins; Location: PL=Po	Location	(e.g. clay, sand, loa	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	tion (Describe to to to Depth	Sh: Shoals silt loan he depth needed to document the inc Horizon	n, 0 to 2 dicator or confirm Color 10YR	percent In the absence of Matrix (Moist) 4/4	slopes, o indicators.) (Typ	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features % 	ins; Location: PL=Pc	Location 	(e.g. clay, sand, loa silty clay	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	EDION (Describe to to Depth	Sh: Shoals silt loan he depth needed to document the inc Horizon	n, 0 to 2 licator or confirm Color 10YR	percent In the absence of Matrix (Moist) 4/4	slopes, o indicators.) (Typ	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features % 	Type	Location 	(e.g. clay, sand, loa silty clay 	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Sh: Shoals silt loan he depth needed to document the inc Horizon	n, 0 to 2 dicator or confirm Color 10YR	percent In the absence of Matrix (Moist) 4/4	slopes, o indicators.) (Typ % 100	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	%	Type	Location	(e.g. clay, sand, loa silty clay 	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	Sh: Shoals silt loan he depth needed to document the inc Horizon	n, 0 to 2	percent n the absence of Matrix (Moist) 4/4	slopes, O indicators.) (Typ % 100	ccasiona e. C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features	Type		(e.g. clay, sand, loa silty clay 	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Sh: Shoals silt loan he depth needed to document the inc Horizon	n, 0 to 2 dicator or confirm	percent n the absence of Matrix (Moist) 4/4	Slopes, 0 indicators.) (Typ	e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loa silty clay 	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Sh: Shoals silt loan he depth needed to document the inc Horizon	n, 0 to 2 licator or confirm Color 10YR	percent n the absence of Matrix (Moist) 4/4	slopes, o indicators.) (Typ	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loa silty clay 	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Sh: Shoals silt loan he depth needed to document the inc Horizon	n, 0 to 2 Color Color 10YR	percent n the absence of Matrix (Moist) 4/4	Slopes, o indicators.) (Typ	ccasiona e: C=Concentrat	Ily flooded on, D=Deptetion, RM=Reduced Matrix, CS=0 Reduced Color (Moist)		Type	Location	(e.g. clay, sand, loa silty clay 	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Sh: Shoals silt loan he depth needed to document the inc Horizon	n, 0 to 2 Color Color 10YR	percent n the absence of Matrix (Moist) 4/4	Slopes, o indicators.) (Typ	ccasiona e: C=Concentrat	Ily flooded on, D=Deptetion, RM=Reduced Matrix, CS=0 Reduced Color (Moist)		Type	Location	(e.g. clay, sand, loa silty clay 	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16 Soil Field In	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he	n, 0 to 2 Color Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	slopes, o indicators) (Typ % 100 e not pressure slopes of the same slopes of the sa	e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=6 Reduced Color (Moist)	ox Features % Indicators	Type	Location	(e.g. clay, sand, loa silty clay 	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he	n, 0 to 2 Color Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	Slopes, o Indicators.) (Type % 100 e not pre \$4 - \$anc \$5	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redo Color (Moist)	ox Features % Indicators	Type	Location	(e.g. clay, sand, loa silty clay 	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom (Describe to I Bottom Depth 16 Soil Field In A1- Histosol A2 - Histock Histock A3 - Black Hi	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he objeedon stic	n, 0 to 2 Color Color 10YR	percent meter absence of Matrix (Moist) 4/4	% 100 e not pre \$4 - Sanc \$5 - Sanc \$6 - Strip	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=0 Reduced Color (Moist)	ox Features % Indicators	Type	Location	(e.g. clay, sand, loa silty clay	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eg. A3 - Black Hi A4 - Hydroge	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he bipedon stic n Sulfide	n, 0 to 2 Color Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	slopes, o indicators) (Type % 100 er not pre \$4 - Sanc \$5 - Sanc \$5 - Strip F1 - Loan	ccasiona e: C=Concentrat	Ily flooded on, D=Deptetion, RM=Reduced Matrix, CS=6 Reduced Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loa silty clay	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he oppedon stic in Sulfide d Layers	n, 0 to 2 Color Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	slopes, o indicators.) (Typ	e: C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS=6 Reduced Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loa silty clay	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he bipedon stic n Sulfide d Layers luck	n, 0 to 2 Color 10YR	percent the absence of Matrix (Moist) 4/4 cators ar	Slopes, o Indicators.) (Typ % 100	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redo Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loa silty clay	am)
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge A5 - Stratifier A11 - Deplete A12 - Thick L	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he bipedon stic n Sulfide I Layers luck ad Below Dark Surface bark Surface	n, 0 to 2 Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	slopes, o indicators.) (Type % 100	e. C=Concentrat	Illy flooded on, D=Deptetion, RM=Reduced Matrix, CS=0 Reduced Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loa silty clay	am)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplett A12 - Thick E S1 - Sandy M	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface luck Mineral	n, 0 to 2 Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	Slopes, o indicators), (Type	e. C=Concentrat	Illy flooded on, D=Deptetion, RM=Reduced Matrix, CS=0 Reduced Color (Moist)	ox Features % Indicators	Type Type Tope Type Tope Tope	Location	(e.g. clay, sand, loa silty clay	
Remarks: SOILS Map Unit Name Profile Descrip Top Depth NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplett A12 - Thick E S1 - Sandy M	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he bipedon stic n Sulfide I Layers luck ad Below Dark Surface bark Surface	n, 0 to 2 Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	slopes, o indicators.) (Type % 100	e. C=Concentrat	Illy flooded on, D=Deptetion, RM=Reduced Matrix, CS=0 Reduced Color (Moist)	ox Features % Indicators	Type Type Tope Type Tope Tope	Location	(e.g. clay, sand, loa silty clay	
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface luck Mineral	n, 0 to 2 Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	slopes, o indicators.) (Type % 100	e. C=Concentrat	Illy flooded on, D=Deptetion, RM=Reduced Matrix, CS=0 Reduced Color (Moist)	ox Features %	Type Type	Location	(e.g. clay, sand, loa silty clay	
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplett A12 - Thick E S1 - Sandy M	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface luck Mineral	n, 0 to 2 Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	Slopes, o Indicators.) (Type % 100	e. C=Concentrat	Illy flooded on, D=Deptetion, RM=Reduced Matrix, CS=0 Reduced Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loa silty clay	
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface luck Mineral	n, 0 to 2 Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	Slopes, o Indicators.) (Type % 100	e. C=Concentrat	Illy flooded on, D=Deptetion, RM=Reduced Matrix, CS=0 Reduced Color (Moist)	ox Features %	Type Type	Location	(e.g. clay, sand, loa silty clay	
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eg A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick E S1 - Sandy M S3 - 5 cm ML	Sh: Shoals silt loan he depth needed to document the inc Horizon dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface bark Surface luck Mineral	n, 0 to 2 Color 10YR	percent n the absence of Matrix (Moist) 4/4 cators ar	Slopes, o Indicators.) (Type % 100	e. C=Concentrat	Illy flooded on, D=Deptetion, RM=Reduced Matrix, CS=0 Reduced Color (Moist)	ox Features %	Type Type	Location	(e.g. clay, sand, loa silty clay	



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 23 Sample Point: SP 53 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 5 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7 8. Prevalence Index Worksheet 9. Total % Cover of: Multiply by: 10 OBL spp. x 1 = FACW spp. Total Cover = 0 x 2 =15 30 FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. x 4 = 80 320 x 5 = 1. UPL spp. 5 25 3. Total 100 375 (B) (A) 4. Prevalence Index = B/A = ___ 5. 3.750 6. 7. Hydrophytic Vegetation Indicators: 8. 9. ☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation 10 Yes No Dominance Test is > 50% Total Cover = Yes ✓ No Prevalence Index is ≤ 3.0 * ☑ No □ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☑ No Yes Problem Hydrophytic Vegetation (Explain) * FACU 15 N Glechoma hederacea * Indicators of hydric soil and wetland hydrology must be Conium maculatum 15 Ν **FACW** present, unless disturbed or problematic. FACU 3. 30 Schedonorus arundinaceus 4. V FACU **Definitions of Vegetation Strata:** Elymus canadensis UPL 5. 5 N Daucus carota 6 Achillea millefolium N **FACU** Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. FACU Dipsacus fullonum Ν 7 5 8. Solidago canadensis 5 Ν **FACU** Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 ft. tall. 10 11 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14 Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 1. 2 3. Hydrophytic Vegetation Present □ Yes ☑ No 4. 5. Total Cover = Remarks:

Additional Remarks:			



Project/Site:		k- Sharp Road 138 kV		sion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date:	01/13/21
Applicant:	American E	Electric Power (AEF	P)							County:	Licking
Investigator #1:					gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:	Sh: Shoals silt	loam, 0 to 2 percent slo	opes, occas	sionally floo	oded	NWI	/WWI Classification:	None		Wetland ID:	Wetland 24
Landform:	Rise			Loc	al Relief:	Convex				Sample Point:	SP 54
Slope (%):	1	Latitude:	40.1	34869	Long	itude:	-82.461377	Datum:	WGS 84	Community ID:	PEM
	rologic conc	litions on the site ty						☑ Yes □	No	Section:	QSW
		or Hydrology □ sig					Are normal circumsta	ances present?	>	Township:	T3N
		or Hydrology □ na					✓ Yes	NU NU		Range:	R12W Dir: N/A
SUMMARY OF		or riyarology = ria	ituruny pi	obicinati	0:		163	140		rtange.	TCTZVV DII. TV//C
Hydrophytic Ve		nont?		- Voc	- No			Hydric Soils	Drocont?		☑ Yes □ No
					□ No					A/:41-: A \A/-41-	
Wetland Hydrol	ogy Present	<u> </u>		Yes	□ No			is this Samp	oling Point	Within A Wetla	and? Yes ■ No
Remarks:											
HYDROLOGY											
Wetland Hydr	ology Indica	itors (Check here i	f indicate	ors are no	nt presen	t 🗆).					
Primary		toro (oricon ricio i	i iiiaioate	no are m	or proderi				Secondary:		
<u>- miary</u>		Water		П	B9 - Wate	r-Stained	Leaves			B6 - Surface So	il Cracks
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
	A3 - Saturation				B14 - True					C2 - Dry-Seaso	
	B1 - Water M				C1 - Hydr						
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imager
	B3 - Drift Dep						educed Iron			D1 - Stunted or	
	B4 - Algal Ma						duction in Tilled Soils		4	D2 - Geomorphi	
	B5 - Iron Dep				C7 - Thin	Muck Surf	ace		√	D5 - FAC-Neutr	
	B7 - Inundation	on Visible on Aerial Im	agery		D9 - Gaug	ge or Well	Data				
	B8 - Sparsely	Vegetated Concave S	Surface		Other (Ex	plain in Re	emarks)				
Field Observat	ions:										
Surface Water		☑ Yes □ No	Depth:	1.5	(in.)						
					. ,			Wetland Hy	drology Pr	esent?	Yes □ No
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)						
Saturation Pres	ent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Becord	10 1 / 1										
Describe Record	ed Data (stre	am gauge, monitorin	q well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	ed Data (stre	am gauge, monitorin	g well, ae	erial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	,			·		·	,		N/A		
Remarks: SOILS Map Unit Name	:	Sh: Shoals silt loar	n, 0 to 2	percent	slopes, o	ccasiona	lly flooded				
Remarks: SOILS Map Unit Name Profile Descrip	tion (Describe to t	Sh: Shoals silt loar	n, 0 to 2	percent	slopes, o	ccasiona	Ily flooded ton, D=Depletion, RM=Reduced Matrix, CS=			ore Lining, M=Matrix)	
Remarks: SOILS Map Unit Name	:	Sh: Shoals silt loar	n, 0 to 2	percent	slopes, o	ccasiona	Illy flooded ion, D=Depletion, RM=Reduced Matrix, CS= Red	lox Features		ore Lining, M=Matrix)	Texture
Remarks: SOILS Map Unit Name Profile Descrip	tion (Describe to t	Sh: Shoals silt loar	m, 0 to 2	percent	slopes, o	ccasiona	Ily flooded ton, D=Depletion, RM=Reduced Matrix, CS=			ore Lining, M=Matrix) Location	Texture (e.g. clay, sand, loa
Remarks: SOILS Map Unit Name Profile Descrip Top	tion (Describe to t	Sh: Shoals silt loar he depth needed to document the in-	m, 0 to 2	percent n the absence of Matrix	slopes, o	ccasiona	Illy flooded ion, D=Depletion, RM=Reduced Matrix, CS= Red	lox Features	ins; Location: PL=Po	1	(e.g. clay, sand, loa
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	tion (Describe to	Sh: Shoals silt loar he depth needed to document the ind Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent In the absence of Matrix (Moist) 4/2	slopes, o indicators.) (Type % 90	ccasiona e: C=Concentrat	Illy flooded ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8	lox Features % 10	Type	Location M	(e.g. clay, sand, loa silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth 10 16	Sh: Shoals silt loar he depth needed to document the in- Horizon 1 2	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent In the absence of Matrix (Moist) 4/2 4/1	slopes, o indicators.) (Type % 90 90	ccasiona e: C=Concentrat	Illy flooded ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	% 10 10	Type C C	Location M M	(e.g. clay, sand, loa silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth	Sh: Shoals silt loar he depth needed to document the in- Horizon 1 2	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent In the absence of Matrix (Moist) 4/2 4/1	slopes, o indicators.) (Type % 90 90	ccasiona e: C=Concentrat	Illy flooded ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	0	Type C C	Location M M	(e.g. clay, sand, loa silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth 10 16	Sh: Shoals silt loar he depth needed to document the in- Horizon 1 2	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent In the absence of Matrix (Moist) 4/2 4/1	slopes, o indicators.) (Type % 90 90	ccasiona e: C=Concentrat	Illy flooded ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	% 10 10	Type C C	Location M M	(e.g. clay, sand, loa silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth	Sh: Shoals silt loar he depth needed to document the in- Horizon 1 2	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent In the absence of Matrix (Moist) 4/2 4/1	slopes, o indicators.) (Type % 90 90	ccasiona e: C=Concentrat	Illy flooded ion, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	0	Type C C	Location M M	(e.g. clay, sand, loa silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth	Sh: Shoals silt loar he depth needed to document the in- Horizon 1 2	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent In the absence of Matrix (Moist) 4/2 4/1	slopes, o indicators.) (Type % 90 90	ccasiona e: C=Concentral	Illy flooded In Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	No. No.	Type C C	Location M M	(e.g. clay, sand, loa silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth 10 16	Sh: Shoals silt loar he depth needed to document the in- Horizon 1 2	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent n the absence of Matrix (Moist) 4/2 4/1	slopes, o indicators.) (Type % 90 90	ccasiona e. C=Concentral	Illy flooded In Depetion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	No. No.	Type C C	Location M M	(e.g. clay, sand, loa silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth 10 16	Sh: Shoals silt loar he depth needed to document the interpretation Horizon 1 2	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent n the absence of Matrix (Moist) 4/2 4/1	Slopes, 0 (Type % 90 90	ccasionae e: C=Concentral	Illy flooded In Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	No. No.	Type C C	Location M M	(e.g. clay, sand, loa silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10	Bottom Depth 10 16	Sh: Shoals silt loar he depth needed to document the in Horizon 1 2	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent n the absence of Matrix (Moist) 4/2 4/1	% 90 90	ccasiona e: C=Concentral	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	No. No.	Type C C	Location M M	(e.g. clay, sand, loa silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 16 Soil Field In	Sh: Shoals silt loar he depth needed to document the in Horizon 1 2	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent n the absence of Matrix (Moist) 4/2 4/1 cators ar	slopes, o indicators) (Typ % 90 90 e not pre	CCASIONA 10YR 10YR 10YR sent	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	No. No.	Type C C s for Problem	Location M M	(e.g. clay, sand, loa silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 16 Soil Field In	Sh: Shoals silt loar he depth needed to document the in Horizon 1 2 dicators (check he	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent n the absence of Matrix (Moist) 4/2 4/1 cators ar	slopes, o indicators.) (Type % 90 90 e not pre S4 - Sand	10YR 10YR sent □	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	No. No.	Type C C 5 for Problem	Location M M	(e.g. clay, sand, loa silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic Ep	Sh: Shoals silt loar he depth needed to document the in Horizon 1 2 dicators (check he	m, 0 to 2 dicator or confirm Color 10YR 10YR	percent n the absence of Matrix (Moist) 4/2 4/1 cators ar	Slopes, o Indicators.) (Type	CCASIONA 10YR 10YR	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	No. No.	Type C C s for Problem A16 - Coast S7 - Dark Sr	Location M M Matic Soils ¹ Prairie Redox	(e.g. clay, sand, loa silty clay silty clay
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M	Sh: Shoals silt loar he depth needed to document the in Horizon 1 2 dicators (check he objecton stic in Sulfide d Layers luck	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/2 4/1 cators ar	Slopes, o Indicators.) (Type % 90 90 90 90	CCASIONA 10YR 10YR 10YR ly Gleyed by Redox by Muck M by Muck M by Gleyed ted Matrix by Muck M by Gleyed ted Matrix	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8	No. No.	Type C C s for Problen A16 - Coast S7 - Dark S7 F12 - Iron-M TF12 - Very	Location M M matic Soils Prairie Redox urface langanese Masse Shallow Dark Su	(e.g. clay, sand, loa silty clay silty clay
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Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 10 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplett A12 - Thick E S1 - Sandy M	Sh: Shoals silt loar he depth needed to document the in Horizon 1 2 dicators (check he bipedon stic n Sulfide d Layers luck ed Below Dark Surface luck Mineral	m, 0 to 2 dicator or confirm Color 10YR	percent n the absence of Matrix (Moist) 4/2 4/1 cators ar	Slopes, o Oindicators.) (Type	CCASIONA 10YR 10YR 10YR sent □ y Gleyed y Redox y Muck Matrix y Muck Matrix xo Dark Su xot	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 6/8 6/8): Matrix ineral Matrix (rface Surface	No. No.	Type C C 5 for Problen A16 - Coast S7 - Dark St F12 - Iron-M Other (Expla	Location M M	(e.g. clay, sand, loa silty clay silty clay ses
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Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 24 Sample Point: SP 54 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7 8. Prevalence Index Worksheet 9. Total % Cover of: Multiply by: 10 OBL spp. x 1 = FACW spp. Total Cover = 0 x 2 =0 0 FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. x 4 = 20 80 x 5 = 1. UPL spp. 0 0 3. Total 100 160 (B) (A) 4. 5. Prevalence Index = B/A = 1.600 6. 7. Hydrophytic Vegetation Indicators: 8. 9. Yes □ No Rapid Test for Hydrophytic Vegetation □ No 10 J Yes Dominance Test is > 50% Total Cover = u/ Yes □ No Prevalence Index is ≤ 3.0 * ☑ No □ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☑ No Yes Problem Hydrophytic Vegetation (Explain) * 80 OBL Iris versicolor * Indicators of hydric soil and wetland hydrology must be Conium maculatum 10 Ν FACU present, unless disturbed or problematic. FACU 3. 10 Ν Symphyotrichum ericoides 4. **Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 ft. tall. 10 11 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14. 15. Woody Vines - All woody vines greater than 3.28 ft. in height. Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 1. 2 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = Remarks: Additional Remarks:



Project/Site:		k- Sharp Road 138 kV		sion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date:	01/13/21
Applicant:	American E	Electric Power (AEP	P)							County:	Licking
Investigator #1	: Aaron Kwo	lek		Investi	gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:	Sh: Shoals sil	t loam, 0 to 2 percent slo	opes, occas	sionally floo	oded	NWI	/WWI Classification:	None		Wetland ID:	Wetland 24
Landform:	Rise			Loc	al Relief:	Convex				Sample Point:	SP 55
Slope (%):	1	Latitude:	40.13	34862	Long	itude:	-82.461999	Datum:	WGS 84	Community ID:	
		ditions on the site ty						☑ Yes □	No	Section:	QSW
		or Hydrology □ sig				(11 110, 02,010	Are normal circumsta			Township:	T3N
		or Hydrology □ na					✓ Yes	NU NU		Range:	R12W Dir: N/A
SUMMARY OF		or riyarology <u> </u>	iturally pr	obicinati	O:			INO		range.	ICIZW DII. IVA
		a a m t O		- V	- Na			Lludvia Caila	Dunnanto		Was El Na
Hydrophytic Ve					☑ No			Hydric Soils			☐ Yes ☑ No
Wetland Hydro	logy Present	?		□ Yes	☑ No			Is This Samp	oling Point V	Within A Wetla	and? ■ Yes ■ No
Remarks:											
HYDROLOGY											
Wetland Hydu	ology Indica	ators (Check here i	f indicato	re are no	nt nresen	t 🗆)•					
Primary		itors (Crieck riele i	illulcato	ns ale il	or presen).			Secondary:		
		Water		П	B9 - Wate	r-Stained	Leaves			B6 - Surface So	il Cracks
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
	A3 - Saturation				B14 - True					C2 - Dry-Season	
	B1 - Water M				C1 - Hydr					C8 - Crayfish Bu	
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift De						educed Iron			D1 - Stunted or	
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorphi	
_	B5 - Iron Der				C7 - Thin					D5 - FAC-Neutra	
		on Visible on Aerial Im	agery		D9 - Gaug						
		Vegetated Concave S			Other (Ex						
Field Observa	tions:										
		□ V □ N-	D = = 4b.		(in)						
Surface Water		□ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes ☑ No
Water Table P		☐ Yes ☑ No	Depth:		(in.)						
Saturation Pres	sent?	□ Yes 🗹 No	Depth:		(in.)						
Describe Becore											
Describe Record	led Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
	led Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
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Remarks:	,						,		N/A		
Remarks: SOILS Map Unit Name	e:	Sh: Shoals silt loar	m, 0 to 2	percent	slopes, o	ccasiona	lly flooded				
Remarks: SOILS Map Unit Name Profile Descri	e: ption (Describe to	Sh: Shoals silt loar	m, 0 to 2	percent	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=			ore Lining, M=Matrix)	
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Remarks: SOILS Map Unit Name Profile Descri	e: ption (Describe to	Sh: Shoals silt loar	m, 0 to 2	percent	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=			ore Lining, M=Matrix) Location	Texture (e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descri Top Depth	e: ption (Describe to) Bottom Depth	Sh: Shoals silt loar the depth needed to document the inc	m, 0 to 2 dicator or confirm Color	percent the absence of Matrix (Moist)	slopes, o	ccasiona	Ily flooded ion, D=Depletion, RM=Reduced Matrix, CS= Red	ox Features	ins; Location: PL=Pc	1	(e.g. clay, sand, loam)
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Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi	Sh: Shoals silt loan the depth needed to document the ind Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/4 cators ar	% 90 e not pre \$4 - Sand \$6 - Strip \$6	ccasiona e: C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features % Indicators	Type	Location	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histo E A3 - Black H A4 - Hydroge	Sh: Shoals silt loan the depth needed to document the inc Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/4 cators ar	slopes, o indicators) (Type 9% 90 e not pre \$4 - Sand \$55 - Sand \$56 - Stript \$1 - Loarn	ccasiona e. C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	Be: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E, A3 - Black H, A4 - Hydroge A5 - Stratifier	Sh: Shoals silt loar the depth needed to document the ine Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent In the absence of Matrix (Moist) 4/4 cators ar	slopes, o indicators.) (Type 90 90	e: C=Concentrat	Illy flooded In Deposition, RM-Reduced Matrix, CS-Red Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descri Top Depth NRCS Hydric	e: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M	Sh: Shoals silt loar the depth needed to document the ine Horizon dicators (check he pipedon istic en Sulfide d Layers luck	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/4	% 90	ccasiona e: C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	e: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm N A11 - Deplete	Sh: Shoals silt loar the depth needed to document the inc Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/4 cators ar	% 90 e not pre \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loarr F2 - Loarr F3 - Deplo	ccasiona e: C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	Be: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black H A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick I	Sh: Shoals silt loan the depth needed to document the ind Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/4 cators ar	Slopes, o	ccasiona e. C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	Be: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black H A4 - Hydroge A5 - Stratifier A10 - 2 cm N A11 - Deplet A12 - Thick [S1 - Sandy N	Sh: Shoals silt loar the depth needed to document the inc Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/4 cators ar	% 90 e not pre \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loarr F2 - Loarr F3 - Deplo	ccasiona e. C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	Type Type Tope Type Tope Tope	Location	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descri Top Depth NRCS Hydric	B: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histo E A3 - Black EI A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick I S1 - Sandy M S3 - 5 cm Mb	Sh: Shoals silt loan the depth needed to document the ind Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/4 cators ar	Slopes, o	ccasiona e. C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features % Indicators Indicators of hydrophy	Type Type	Location	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	Be: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black H A4 - Hydroge A5 - Stratifier A10 - 2 cm N A11 - Deplet A12 - Thick [S1 - Sandy N	Sh: Shoals silt loar the depth needed to document the inc Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/4 cators ar	Slopes, o	ccasiona e. C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features %	Type Type	Location	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	B: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histo E A3 - Black EI A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick I S1 - Sandy M S3 - 5 cm Mb	Sh: Shoals silt loar the depth needed to document the inc Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/4 cators ar	Slopes, o	ccasiona e. C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features % Indicators Indicators of hydrophy	Type Type	Location	(e.g. clay, sand, loam) silty clay
Remarks: SOILS Map Unit Name Profile Descri Top Depth 0 NRCS Hydric	B: Bottom Depth 16 Soil Field In A1- Histosol A2 - Histo E A3 - Black EI A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick I S1 - Sandy M S3 - 5 cm Mb	Sh: Shoals silt loar the depth needed to document the inc Horizon	m, 0 to 2 dicator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/4 cators ar	Slopes, o	ccasiona e. C=Concentrat	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	ox Features % Indicators Indicators of hydrophy	Type Type	Location	(e.g. clay, sand, loam) silty clay



Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 24 Sample Point: SP 55 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7 8. Prevalence Index Worksheet 9. Total % Cover of: Multiply by: 10 OBL spp. x 1 = FACW spp. Total Cover = 0 x 2 =0 0 FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. x 4 = 380 95 x 5 = 1. UPL spp. 0 0 3. Total 100 395 (A) 4. Prevalence Index = B/A = ___ 5. 3.950 6. 7. Hydrophytic Vegetation Indicators: 8. 9. ☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation 10 Yes No Dominance Test is > 50% Total Cover = Yes ✓ No Prevalence Index is ≤ 3.0 * ☑ No □ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☑ No Yes Problem Hydrophytic Vegetation (Explain) * 60 FACU Elymus canadensis * Indicators of hydric soil and wetland hydrology must be Solidago canadensis 30 FACU present, unless disturbed or problematic. FACU Ν 3. Rosa multiflora 5 4. Apocynum cannabinum Ν FAC **Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 ft. tall. 10 11 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14. 15. Woody Vines - All woody vines greater than 3.28 ft. in height. Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 1. 2 3. Hydrophytic Vegetation Present □ Yes ☑ No 4. 5. Total Cover =

Additional Remarks:			



Project/Site:		k- Sharp Road 138 kV		sion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date:	01/13/21
Applicant:	American E	Electric Power (AEP)							County:	Licking
Investigator #1:					gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:	Sh: Shoals sil	t loam, 0 to 2 percent slo	pes, occa	sionally flo	oded	NWI	WWI Classification:	None		Wetland ID:	Wetland 25
Landform:	Depression	1		Loc	al Relief:	Concave	•			Sample Point:	SP 56
Slope (%):	1	Latitude:	40.1	28422	Long	itude:	-82.456315	Datum:	WGS 84	Community ID:	PEM
	drologic cond	ditions on the site ty			of vear?	(If no. expla		☑ Yes □	No	Section:	QSW
		or Hydrology □ sig					Are normal circumsta	nces present?)	Township:	T3N
		or Hydrology □ na					✓ Yes	ND		Range:	R12W Dir: N/A
SUMMARY OF		or riyarology = ria	turuny pi	obicinat	10:		163	140		range.	TOTAL DIT. TWIT
Hydrophytic Ve		oont?		- Voc	- No			Hydric Soils	Drocent?		☑ Yes □ No
					□ No					A/:+ -:	
Wetland Hydrol	logy Present	!		_	□ No			is this Samp	oling Point	Nithin A Wetla	ind? • Yes • No
Remarks:											
HYDROLOGY											
Wetland Hydr	ology Indica	ators (Check here it	f indicate	ors are n	ot presen	t 🗆)•					
Primary		toro (Oncon nord	illaloate	715 GIO III	ot proson	/.			Secondary:		
<u>- miary</u>		Water			B9 - Wate	r-Stained	eaves			B6 - Surface So	il Cracks
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
✓	A3 - Saturation				B14 - True					C2 - Dry-Season	
	B1 - Water M	1arks			C1 - Hydr					C8 - Crayfish Bu	
	B2 - Sedimer	nt Deposits			C3 - Oxid	zed Rhizo	spheres on Living Roots			C9 - Saturation	Visible on Aerial Imagery
	B3 - Drift Dep	oosits			C4 - Pres	ence of Re	duced Iron			D1 - Stunted or	Stressed Plants
	B4 - Algal Ma				C6 - Rece	nt Iron Re	duction in Tilled Soils		√	D2 - Geomorphi	c Position
	B5 - Iron Dep				C7 - Thin				√	D5 - FAC-Neutra	al Test
		on Visible on Aerial Im									
	B8 - Sparsely	y Vegetated Concave S	Surface		Other (Ex	plain in Re	marks)				
Field Observat	tions:										
Surface Water	Present?		Depth:	2	(in.)			Matland Ibu	dualanı Du		V No
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	arology Pr	esent?	Yes No
Saturation Pres		☑ Yes □ No	Depth:		(in.)						
					. ,				A1/A		
	ed Data (stre	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:											
SOILS											
Map Unit Name	e:	Sh: Shoals silt loar	n, 0 to 2	percent	slopes, o	ccasiona	lly flooded				
Profile Descrip	otion (Describe to t	the depth needed to document the inc	dicator or confirm	n the absence of	indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Grai	ins; Location: PL=Po	re Lining, M=Matrix)	
Top	Bottom			Matrix				ox Features			Texture
Depth	Depth	Horizon	Color		%						
0	2	TIOTIZOTI		(Moist)			COIOT (IVIOIST)	%	Type	Location	
2			10VD	(Moist)	+		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
	40		10YR	2/1	100	 40VD				-	(e.g. clay, sand, loam) silty clay
	12		10YR	2/1 4/2	100 90	10YR	6/8	 10	 C	 M	(e.g. clay, sand, loam) silty clay silty clay
12	12 16		+	2/1	100					-	(e.g. clay, sand, loam) silty clay
	+		10YR	2/1 4/2	100 90	10YR	6/8	 10	 C	 M	(e.g. clay, sand, loam) silty clay silty clay
12	16		10YR 10YR	2/1 4/2 4/1	100 90 90	10YR 10YR	 6/8 6/8	 10 10	 C C	 M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 	16		10YR 10YR 	2/1 4/2 4/1 	100 90 90 	10YR 10YR 	 6/8 6/8 	10 10 	 C C	 M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 	16 	 	10YR 10YR 	2/1 4/2 4/1 	100 90 90 	10YR 10YR 	6/8 6/8 	 10 10 	C C	 M M 	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 	16 	 	10YR 10YR 	2/1 4/2 4/1 	100 90 90 	10YR 10YR 	6/8 6/8 	 10 10 	 C C	 M M 	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 	16 	 	10YR 10YR 	2/1 4/2 4/1 	100 90 90 	10YR 10YR 	 6/8 6/8 	10 10 10 	 C C 	 M M 	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In	 	10YR 10YR 	2/1 4/2 4/1 	100 90 90 re not pre	10YR 10YR sent	 6/8 6/8 	 10 10 Indicators	C C C for Problem	 M M 	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In	 dicators (check he	10YR 10YR 	2/1 4/2 4/1 icators ar	100 90 90 re not pre S4 - Sand	10YR 10YR sent □ y Gleyed I	 6/8 6/8 	 10 10 Indicators		M M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic Ep	 dicators (check he	10YR 10YR 	2/1 4/2 4/1 icators ar	100 90 90 re not pre \$4 - Sand \$5 - Sand	10YR 10YR sent □ y Gleyed I y Redox	 6/8 6/8 	 10 10 Indicators		M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosoil A2 - Histic E _I A3 - Black Hi	dicators (check he	10YR 10YR 	2/1 4/2 4/1 icators ar	100 90 90 re not pre \$4 - Sand \$5 - Sand \$6 - Strip	10YR 10YR sent y Gleyed I y Redox oed Matrix	 6/8 6/8 	 10 10 Indicators	 C C for Problen A16 - Coast S7 - Dark St F12 - Iron-M	M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge		10YR 10YR 	2/1 4/2 4/1 icators ar	100 90 90 re not pre \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loan	10YR 10YR sent □ y Gleyed I y Redox bed Matrix by Muck M	 6/8 6/8 	 10 10 Indicators		M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic E1 A3 - Black Hi A4 - Hydroge A5 - Stratifier		10YR 10YR 	2/1 4/2 4/1	100 90 90 re not pre \$4 - Sand \$5 - Sard \$6 - Strip, F1 - Loan F2 - Loan	10YR 10YR sent □ y Gleyed I y Redox oed Matrix y Muck M y Gleyed	 6/8 6/8 Watrix	 10 10 Indicators		M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic Ep A3- Black Hi A4 - Hydroge A5- Stratifiec A10 - 2 cm N		10YR 10YR ere if indi	2/1 4/2 4/1 cators ar	100 90 90 e not pre 84 - Sanc \$5 - Sanc \$6 - Strip F1 - Loar F2 - Loar F3 - Depl	10YR 10YR 10YR sent □ y Gleyed I y Redox oed Matrix yy Muck M ny Gleyed eted Matrix	 6/8 6/8): Matrix	 10 10 Indicators		M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete		10YR 10YR ere if indi	2/1 4/2 4/1 icators ar	100 90 90 e not pre \$5 - Sano \$6 - Strip, F1 - Loam F2 - Loam F3 - Depli F6 - Redo	10YR 10YR sent □ y Gleyed to y Redox od Matrix y Muck Mny Mn	6/8 6/8	 10 10 Indicators		M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifie A10 - 2 cm M A11 - Deplet A12 - Thick E		10YR 10YR ere if indi	2/1 4/2 4/1	100 90 90 er not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loam F2 - Loam F3 - Depli F6 - Redc F7 - Depli	10YR 10YR 10YR sent □ y Gleyed ly y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark veleted Dark veleted Dark veleted New Years	6/8 6/8	 10 10 Indicators		M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M		10YR 10YR ere if indi	2/1 4/2 4/1	100 90 90 e not pre \$5 - Sano \$6 - Strip, F1 - Loan F2 - Loan F3 - Depli F6 - Redo	10YR 10YR 10YR sent □ y Gleyed ly y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark veleted Dark veleted Dark veleted New Years	6/8 6/8	 10 10 Indicators	C C C	M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifie A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm M		10YR 10YR ere if indi	2/1 4/2 4/1	100 90 90 er not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loam F2 - Loam F3 - Depli F6 - Redc F7 - Depli	10YR 10YR 10YR sent □ y Gleyed ly y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark veleted Dark veleted Dark veleted New Years	6/8 6/8	10 10 10 Indicators	C C C	M M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M		10YR 10YR ere if indi	2/1 4/2 4/1	100 90 90 er not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loam F2 - Loam F3 - Depli F6 - Redc F7 - Depli	10YR 10YR 10YR sent □ y Gleyed ly y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark veleted Dark veleted Dark veleted New Years	6/8 6/8	 10 10 Indicators	C C C	M M M	(e.g. clay, sand, loam) silty clay silty clay silty clay ses
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifie A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm M		10YR 10YR ere if indi	2/1 4/2 4/1	100 90 90 er not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loam F2 - Loam F3 - Depli F6 - Redc F7 - Depli	10YR 10YR 10YR sent □ y Gleyed ly y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark veleted Dark	6/8 6/8	10 10 10 Indicators	C C C	M M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifie A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm M		10YR 10YR ere if indi	2/1 4/2 4/1	100 90 90 er not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loam F2 - Loam F3 - Depli F6 - Redc F7 - Depli	10YR 10YR 10YR sent □ y Gleyed ly y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark veleted Dark	6/8 6/8	10 10 10 Indicators	C C C	M M M	(e.g. clay, sand, loam) silty clay silty clay silty clay
12 NRCS Hydric	16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifie A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm M		10YR 10YR ere if indi	2/1 4/2 4/1	100 90 90 er not pre S4 - Sanc S5 - Sanc S6 - Strip F1 - Loam F2 - Loam F3 - Depli F6 - Redc F7 - Depli	10YR 10YR 10YR sent □ y Gleyed ly y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark veleted Dark	6/8 6/8	10 10 10 Indicators	C C C	M M M	(e.g. clay, sand, loam) silty clay silty clay silty clay



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 25 Sample Point: SP 56

VEGETATION	(Species identified in all uppercase are non-na	ative spec	cies.)		
Tree Stratum (Pl	ot size: 30 ft radius)				Device and Test Westerna
4	<u>Species Name</u>		Dominant	Ind.Status	Dominance Test Worksheet
1. 2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					Number of Dominant Species that are OBL, PAGW, of PAG(A)
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					(2)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 90 x 1 = 90
	Total Cover =	0			FACW spp. 5 x 2 = 10
					FAC spp. $0 x 3 = 0$
	atum (Plot size: 15 ft radius)				FACU spp. 0 x 4 = 0
1. 2.					UPL spp 0
3.					Total 95 (A) 100 (B)
4.					Total <u>95</u> (A) <u>100</u> (B)
5.					Prevalence Index = B/A = 1.053
6.					1 Tovalcinos mass – BIA – 1.000
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☑ Yes □ No Rapid Test for Hydrophytic Vegetation
10.					☑ Yes □ No Dominance Test is > 50%
	Total Cover =	0			
					☐ Yes ☑ No Morphological Adaptations (Explain) *
	ot size: 5 ft radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Juncus effusus	60	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
2.	Acorus calamus	30	Y	OBL	present, unless disturbed or problematic.
3. 4.	Lysimachia nummularia	5	N 	FACW	Definitions of Vegetation Strata:
5.					Demilions of Vegetation Strata.
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at
7.					breast height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28
10.					ft. tall.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.					and woody plants less than 3.20 it. tail.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	95			
M	our (District 20 ft and in)				
1.	tum (Plot size: 30 ft radius)				
2.					
3.					Hydrophytic Vegetation Present ☑ Yes □ No
4.					, , , , , , , , , , , , , , , , , , , ,
5.					
	Total Cover =	0		_	
Remarks:		_	_		
		_	_	_	
Additional Re	marks:				



Project/Site: Applicant:		k- Sharp Road 138 kV Electric Power (AEP		ion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date: County:	01/13/21 Licking
Investigator #1:		*)	Investi	antor #2:	Kata Ba	mor			State:	Ohio
Soil Unit:		iek t loam, 0 to 2 percent slo		IIIVESII	gator #2:		/WWI Classification:	None		-1	Wetland 25
Landform:	Rise	t toam, o to 2 percent sio	pes, occas		al Relief:		/ VV VVI Glassification.	None		Sample Point:	
Slope (%):	1	Latitude:	40.1	2839			-82.456309	Datum:	WGS 84	Community ID:	
		litions on the site ty						☑ Yes □	No	Section:	QSW
		or Hydrology □ sig				(II 110, expia	Are normal circumsta			1	T3N
		or Hydrology □ sig					✓ Yes	NU NU	ſ	Township: Range:	R12W Dir: N/A
SUMMARY OF		or Hydrology - Ha	lurally pr	Obleman	C!		<u> </u>	IVƏ		Range.	K1ZW DII. INA
Hydrophytic Ve		cont?		□ Voc	□ No			Hydria Saile	Procent?		☑ Yes □ No
Wetland Hydrol					✓ No ✓ No			Hydric Soils		Within A Wetla	
Remarks:	ogy Present	!		u res	□ NO			is this same	oling Point	within A wella	ind? - res - No
Remarks.											
LIVEROLOGY											
HYDROLOGY											
Wetland Hydro	ology Indica	ators (Check here if	indicato	rs are no	ot present	t □):					
Primary:									Secondary:		
	A1 - Surface				B9 - Wate						
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
	A3 - Saturation B1 - Water M				B14 - True C1 - Hydro					C2 - Dry-Season C8 - Crayfish Bu	
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						duced Iron			D1 - Stunted or	
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorphi	
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutra	
		on Visible on Aerial Ima			D9 - Gaug						
	B8 - Sparsely	/ Vegetated Concave S	Surface		Other (Exp	plain in Re	marks)				
Field Observat	ions:										
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes □ No
Water Table Pre	esent?	☐ Yes ☑ No	Depth:		(in.)			wettand my	arology i i	esent:	163 - 140
Saturation Pres	ent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Record	ed Data (stre	am gauge, monitoring	v wall as								
Docombo i tocoma				rial nhoto	s nreviou	s inspecti	ons) if available:		N/A		
Domarke:	`	am gauge, monitoring	y well, ae	rial photo	s, previous	s inspection	ons), if available:		N/A		
Remarks:	,	am gauge, monitoring	g weii, ae	rial photo	s, previous	s inspection	ons), if available:		N/A		
	,	am gauge, monitoring	j well, ae	rial photo	s, previous	s inspection	ons), if available:		N/A		
SOILS				·		·	,		N/A		
SOILS Map Unit Name		Sh: Shoals silt loan	n, 0 to 2	percent	slopes, o	ccasiona	lly flooded				
SOILS Map Unit Name Profile Descrip	tion (Describe to t	Sh: Shoals silt loan	n, 0 to 2	percent :	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=1			ore Lining, M=Matrix)	Tarkers
SOILS Map Unit Name Profile Descrip Top	Bottom	Sh: Shoals silt loan the depth needed to document the ind	n, 0 to 2	percent the absence of Matrix	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu	ox Features	ins; Location: PL=Po	T	Texture
SOILS Map Unit Name Profile Descrip Top Depth	Bottom Depth	Sh: Shoals silt loan	n, 0 to 2	percent the absence of Matrix (Moist)	slopes, o	ccasiona	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS=1			ore Lining, M=Matrix) Location	(e.g. clay, sand, loam
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	Sh: Shoals silt loan the depth needed to document the ind	n, 0 to 2 icator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/2	slopes, o indicators.) (Type % 100	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features % 	Type	Location	
SOILS Map Unit Name Profile Descrip Top Depth	Bottom Depth	Sh: Shoals silt loan he depth needed to document the ind Horizon	n, 0 to 2	percent the absence of Matrix (Moist)	slopes, o	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features %	ins; Location: PL=Po	Location	(e.g. clay, sand, loam
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth	Sh: Shoals silt loan he depth needed to document the ind Horizon	n, 0 to 2 icator or confirm Color 10YR	percent the absence of Matrix (Moist) 4/2	slopes, o indicators.) (Type % 100	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features % 	Type	Location	(e.g. clay, sand, loam silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom (Describe to to Bottom Depth 1	Sh: Shoals silt loan he depth needed to document the ind Horizon	n, 0 to 2 icator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2	slopes, o indicators.) (Type % 100 90	ccasiona e: C=Concentrati	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist) 6/8	ox Features % 10	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Bottom Depth 1	Sh: Shoals silt loan the depth needed to document the ind Horizon	n, 0 to 2 icator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2	slopes, O indicators.) (Type % 100 90	ccasiona e: C=Concentrat 10YR	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist) 6/8	% 10	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Bottom Depth 1 16	Sh: Shoals silt loan the depth needed to document the ind Horizon	color Color 10YR 10YR	percent : the absence of Matrix (Moist) 4/2 4/2	slopes, O indicators.) (Type % 100 90	ccasiona e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist) 6/8	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Bottom Depth 1 16	Sh: Shoals silt loan the depth needed to document the ind Horizon	n, 0 to 2 icator or confirm Color 10YR 10YR	percent streament of Matrix (Moist) 4/2 4/2	Slopes, o indicators) (Typer 90	e: C=Concentrat	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist) 6/8	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Potion (Describe to 1 Bottom Depth 1 16	Sh: Shoals silt loan he depth needed to document the ind Horizon	n, 0 to 2 icator or confirm Color 10YR 10YR	percent the absence of Matrix (Moist) 4/2 4/2	Slopes, o Indicators.) (Type	ccasiona e. C=Concentrati	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1	Potion (Describe to 1 Bottom Depth 1 16	Sh: Shoals silt loan he depth needed to document the ind Horizon	color or confirm	percent the absence of Matrix (Moist) 4/2 4/2	% 100 90	ccasiona e. C=Concentrat	Ily flooded on, D=Deptetion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	btion (Describe to 1 Bottom Depth 1 16 Soil Field In	Sh: Shoals silt loan he depth needed to document the ind Horizon	color or confirm	percent the absence of Matrix (Moist) 4/2 4/2	slopes, o indicators) (Type % 100 90 e not pre	ccasiona e. C=Concentrat	Ily flooded on, D=Deptetion, RM=Reduced Matrix, CS= Redu Color (Moist) 6/8	ox Features	Type C s for Problem	Location M natic Soils ¹	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	btion (Describe to to Describe to to Describe to to Depth 1 16	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he	color or confirm	percent the absence of Matrix (Moist) 4/2 4/2	slopes, o indicators.) (Type % 100 90 e not press 4 - Sand	ccasiona e: C=Concentrat 10YR sent □ y Gleyed I	Ily flooded on, D=Deptetion, RM=Reduced Matrix, CS= Redu Color (Moist) 6/8	ox Features	Type C s for Problem	Location M prairic Soils ¹ Prairie Redox	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	btion (Describe to 1 Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he	color or confirm	percent: the absence of Matrix (Moist) 4/2 4/2 cators ar	Slopes, o Mindiators) (Type % 100 90 e not pre S4 - Sand S5 - Sand	ccasiona e: C=Concentrati	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8	ox Features	Type C s for Problem A16 - Coast S7 - Dark Sr	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to 1 Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he oipedon stic	color or confirm	percent the absence of Matrix (Moist) 4/2 4/2	% 100 90 e not pre S4 - Sand S6 - Stript	ccasiona e. C=Concentrati 10YR	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist) 6/8	ox Features	Type Type C C 5 for Problem A16 - Coast \$7 - Dark \$6 F12 - Iron-M	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	btion (Describe to 1 Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic Eg. A3 - Black Hi A4 - Hydroge	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he bipedon stic en Sulfide	color or confirm	percent the absence of Matrix (Moist) 4/2 4/2	% 100 90 e not pre \$4 - Sand \$5 - Sand \$5 - Sartipp F1 - Loam	ccasiona e: C=Concentrat 10YR	Ily flooded on, D=Deptetion, RM=Reduced Matrix, CS= Reduced (Color (Moist) 6/8); Matrix	ox Features	Type C s for Problen A16 - Coast S7 - Dark S7 TF12 - Very	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	btion (Describe to 1 Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he oipedon stic en Sulfide d Layers	color or confirm	percent: the absence of Matrix (Moist) 4/2 4/2 cators ar	% 100 90 e not pre S4 - Sand S6 - Stript	ccasiona e: C=Concentrate 10YR y Gleyed I y Redox on the concentrate of the	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS= Reduced Matri	ox Features	Type C s for Problen A16 - Coast S7 - Dark S7 TF12 - Very	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	btion (Describe to 1 Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A10 - 2 cm M	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he oipedon stic en Sulfide d Layers	n, 0 to 2 icator or confirm Color 10YR 10YR re if indid	percent the absence of Matrix (Moist) 4/2	slopes, o indicators.) (Type % 100 90 e not pre \$4 - Sand \$5 - Sard \$6 - Strip F1 - Loarm F2 - Loarm	ccasiona e. C=Concentrati 10YR	Ily flooded on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8): Matrix inneral Matrix	ox Features	Type C s for Problen A16 - Coast S7 - Dark S7 TF12 - Very	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet A12 - Thick E	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he bipedon stic an Sulfide d Layers luck ed Below Dark Surface bark Surface	n, 0 to 2 icator or confirm Color 10YR 10YR re if indid	percent the absence of Matrix (Moist) 4/2 4/2	% 100 90 e not pre \$4 - Sand \$5 - Sand \$5 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple	ccasiona 10YR 10YR y Gleyed I y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark :	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS=I Reduced (Color (Moist)	ox Features	Type C s for Problen A16 - Coast S7 - Dark S7 TF12 - Very	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric:	Postion (Describe to 1 Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he oipedon stic en Sulfide d Layers luck ed Below Dark Surface bark Surface fluck Mineral	n, 0 to 2 icator or confirm Color 10YR 10YR re if indid	percent the absence of Matrix (Moist) 4/2 4/2	% 100 90 e not pre \$4 - Sand \$5 - Sand \$6 - Stripp F1 - Loarr F2 - Loarr F3 - Deplo	ccasiona 10YR 10YR y Gleyed I y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark :	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS=I Reduced (Color (Moist)	ox Features	Type C s for Problen A16 - Coast S7 - Dark S7 TF12 - Very	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric	Postion (Describe to 1 Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he bipedon stic an Sulfide d Layers luck ed Below Dark Surface bark Surface	n, 0 to 2 icator or confirm Color 10YR 10YR re if indid	percent the absence of Matrix (Moist) 4/2 4/2	% 100 90 e not pre \$4 - Sand \$5 - Sand \$5 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple	ccasiona 10YR 10YR y Gleyed I y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark :	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS=I Reduced (Color (Moist)	ox Features	Type C 5 for Problen A16 - Coast S7 - Dark S7 17-12 - Iron-M TF12 - Very Other (Explain	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he oipedon stic en Sulfide d Layers luck ed Below Dark Surface bark Surface fluck Mineral	n, 0 to 2 icator or confirm Color 10YR 10YR re if indid	percent the absence of Matrix (Moist) 4/2 4/2	% 100 90 e not pre \$4 - Sand \$5 - Sand \$5 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple	ccasiona 10YR 10YR y Gleyed I y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark :	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS=I Reduced (Color (Moist)	ox Features % 10 Indicators Indicators of hydrophy	Type Type C s for Problen A16 - Coast S7 - Dark S7 TF12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam silty clay silty clay ss
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric :	Postion (Describe to 1 Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he oipedon stic en Sulfide d Layers luck ed Below Dark Surface bark Surface fluck Mineral	n, 0 to 2 icator or confirm Color 10YR 10YR re if indid	percent the absence of Matrix (Moist) 4/2 4/2	% 100 90 e not pre \$4 - Sand \$5 - Sand \$5 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple	ccasiona 10YR 10YR y Gleyed I y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark :	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS=I Reduced (Color (Moist)	ox Features	Type Type C s for Problen A16 - Coast S7 - Dark S7 TF12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he oipedon stic en Sulfide d Layers luck ed Below Dark Surface bark Surface fluck Mineral	n, 0 to 2 icator or confirm Color 10YR 10YR re if indid	percent the absence of Matrix (Moist) 4/2 4/2	% 100 90 e not pre \$4 - Sand \$5 - Sand \$5 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple	ccasiona 10YR 10YR y Gleyed I y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark :	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS=I Reduced (Color (Moist)	ox Features % 10 Indicators Indicators of hydrophy	Type Type C s for Problen A16 - Coast S7 - Dark S7 TF12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam silty clay silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 1 NRCS Hydric :	Bottom Depth 1 16 Soil Field In A1- Histosol A2 - Histic E _I A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M S3 - 5 cm Mt	Sh: Shoals silt loan he depth needed to document the ind Horizon dicators (check he oipedon stic en Sulfide d Layers luck ed Below Dark Surface bark Surface fluck Mineral	n, 0 to 2 icator or confirm Color 10YR 10YR re if indid	percent the absence of Matrix (Moist) 4/2 4/2	% 100 90 e not pre \$4 - Sand \$5 - Sand \$5 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple	ccasiona 10YR 10YR y Gleyed I y Redox oed Matrix y Muck M y Gleyed deted Matrix x Dark Su eted Dark :	Illy flooded on, D=Depletion, RM=Reduced Matrix, CS=I Reduced (Color (Moist)	ox Features % 10 Indicators Indicators of hydrophy	Type Type C 5 for Problen A16 - Coast S7 - Dark S7 TF12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam silty clay silty clay



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 25 Sample Point: SP 57 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7 8. Prevalence Index Worksheet 9. Total % Cover of: Multiply by: 10 OBL spp. x 1 = FACW spp. Total Cover = 0 x 2 =0 0 FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. x 4 = 90 360 x 5 = 1. UPL spp. 10 50 3. Total 100 410 (B) (A) 4. 5. Prevalence Index = B/A = 4.100 6. 7. Hydrophytic Vegetation Indicators: 8. 9. ☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation 10 Yes No Dominance Test is > 50% Total Cover = Yes ✓ No Prevalence Index is ≤ 3.0 * ☑ No □ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☑ No Yes Problem Hydrophytic Vegetation (Explain) * 45 FACU Elymus canadensis * Indicators of hydric soil and wetland hydrology must be Conyza canadensis 10 Ν UPL present, unless disturbed or problematic. Schedonorus arundinaceus 3. 45 **FACU** 4. **Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 ft. tall. 10 11 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14. 15. Woody Vines - All woody vines greater than 3.28 ft. in height. Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 1. 2 3. Hydrophytic Vegetation Present □ Yes ☑ No 4. 5. Total Cover = Remarks: Additional Remarks:



Project/Site:		k- Sharp Road 138 kV ⁻		ion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date:	01/13/21
Applicant:		Electric Power (AEP))							County:	Licking
Investigator #1:				Investi	gator #2:					State:	Ohio
Soil Unit:	FcA: Fitchvill	e silt loam, 0 to 2 perce	ent slopes			NWI	/WWI Classification:	None		Wetland ID:	Wetland 26
Landform:	Depression	1		Loc	al Relief:	Concave	9			Sample Point:	SP 58
Slope (%):	1	Latitude:		24553			-82.453654	Datum:	WGS 84	Community ID:	PEM
Are climatic/hyd	rologic cond	ditions on the site type	oical for	this time	of year?	(If no, expla	in in remarks)	☑ Yes □	No	Section:	QSW
		or Hydrology □ sig					Are normal circumsta	nces present?)	Township:	T3N
		or Hydrology □ nat					Yes	NŪ		Range:	R12W Dir: N/A
SUMMARY OF			arany pr	o b i o i i i a c				110		r turigo:	
Hydrophytic Ve		cont?		□ Vec	□ No			Hydric Soils	Drecent?		☑ Yes □ No
Wetland Hydrol					□ No					Within A Wetla	
Remarks:	ogy Fresent	.!		<u> 168</u>				is this same	ning Foint	Willim A Wella	inu! • res = NO
Remarks.											
HYDROLOGY											
Wetland Hydr	ology Indica	ators (Check here if	indicato	rs are n	ot presen	t □):					
Primary					от р. осо	. – ,.			Secondary:		
√		Water			B9 - Wate	r-Stained	Leaves			B6 - Surface So	il Cracks
✓	A2 - High Wa	ater Table			B13 - Aqu	atic Fauna	I			B10 - Drainage	Patterns
✓	A3 - Saturati	on			B14 - True	Aquatic F	Plants			C2 - Dry-Season	
	B1 - Water N				C1 - Hydr						
	B2 - Sedime				C3 - Oxidi	zed Rhizo	spheres on Living Roots			C9 - Saturation	Visible on Aerial Imagery
	B3 - Drift De						duced Iron			D1 - Stunted or	
	B4 - Algal Ma						duction in Tilled Soils		✓.	D2 - Geomorphi	
	B5 - Iron Dep				C7 - Thin				√	D5 - FAC-Neutra	al Test
		on Visible on Aerial Ima									
	Bo - Sparser	y Vegetated Concave S	uriace		Other (Ex	piain in Re	marks)				
F: 1101											
Field Observat											
Surface Water	Present?		Depth:	2	(in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Water Table Pr	esent?	Yes No	Depth:	0	(in.)				0.0 g j		166 – 116
Saturation Pres	ent?	Yes No	Depth:	0	(in.)						
Describe Record	ed Data (stre	am gauge, monitoring	well ae	rial photo	s previous	s inspectio	ons) if available:		N/A		
Remarks:	ou Buta (otre	am gaago, montoning	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	nai prioto	o, proviou	o mopoous	one, ii avallabie.				
Remarks.											
0011.0											
SOILS											
Map Unit Name		FcA: Fitchville silt lo									
	otion (Describe to	the depth needed to document the indi	cator or confirm	the absence of	indicators.) (Typ	e: C=Concentrati	on, D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Grai	ins; Location: PL=Po	ore Lining, M=Matrix)	
Тор	Bottom			Matrix			Redo	ox Features			Texture
Depth	Depth	Horizon	Color	(Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loam)
0	3		10YR	2/1	100						silty clay
3	10		10YR	2/1	90	10YR	6/8	10	С	М	silty clay
10	16		10YR	4/1	90	10YR	6/8	10	C	M	silty clay
	1							+			
											
				-							
NRCS Hydric	Soil Field Ir	ndicators (check he	re if indi	cators ar	e not pre	sent 🗆):	Indicators	for Problen	natic Soils 1	
	A1- Histosol				S4 - Sand					Prairie Redox	
	A2 - Histic E	pipedon			S5 - Sand				S7 - Dark St		
	A3 - Black H				S6 - Strip					langanese Masse	es
	A4 - Hydroge	en Sulfide			F1 - Loan	y Muck Mi	neral			Shallow Dark Su	
	A5 - Stratifie	d Layers			F2 - Loan	y Gleyed	Matrix		Other (Expla	ain in Remarks)	
	A10 - 2 cm N	luck		~	F3 - Deple	eted Matrix					
	A11 - Deplet	ed Below Dark Surface			F6 - Redo	x Dark Su	face				
	A12 - Thick [F7 - Deple						
	S1 - Sandy N				F8 - Redo	x Depress	ions				
	S3 - 5 cm Mu	ucky Peat or Peat				-		1 Indicators of hydrophyt	tic vegetation and w	etland hydrology must be	present, unless disturbed or problematic.
Restrictive Layer	Type:			Depth:				Hydric Soil	Present?	V	Yes □ No
(If Observed)				-							
Remarks:											



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 26 Sample Point: SP 58 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) 3. 4. Total Number of Dominant Species Across All Strata: 4 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: 10 OBL spp. x 1 = FACW spp. Total Cover = 0 x 2 =25 50 FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. x 4 = 0 x 5 = 1. Rosa palustris 10 Υ OBL UPL spp. 10 50 3. Total 120 185 (A) 4. 5. Prevalence Index = B/A = 1.542 6. 7. Hydrophytic Vegetation Indicators: 8. 9. Yes □ No Rapid Test for Hydrophytic Vegetation □ No 10 J Yes Dominance Test is > 50% Total Cover = 1 Yes □ No Prevalence Index is ≤ 3.0 * ☑ No □ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☑ No Yes Problem Hydrophytic Vegetation (Explain) * 25 OBL Typha latifolia * Indicators of hydric soil and wetland hydrology must be Carex frankii 10 Ν **UPL** present, unless disturbed or problematic. Symplocarpus foetidus 25 Υ 3. OBL 4. Ν **Definitions of Vegetation Strata:** Epilobium coloratum 10 OBL FACW 5. 25 Persicaria pensylvanica 6 Eupatorium perfoliatum 10 Ν OBL Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. Ν OBL 7 Mimulus ringens 5 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 ft. tall. 10 11 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14 15. Woody Vines - All woody vines greater than 3.28 ft. in height. Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 1. 2 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = Remarks:

Additional Remarks:			



Project/Site:	North Newark	k- Sharp Road 138 kV	Transmiss	sion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date:	01/13/21
Applicant:	American E	Electric Power (AEP)				-			County:	Licking
Investigator #1:	Aaron Kwo	lek `	,	Investi	gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:		e silt loam, 0 to 2 perce	ent slopes				/WWI Classification:	None		Wetland ID:	Wetland 26
Landform:	Rise			Loc	al Relief:	Convex				Sample Point:	SP 59
Slope (%):	1	Latitude:	40.1	24852			-82.453654	Datum:	WGS 84	Community ID:	
		litions on the site ty						☑ Yes □	No	Section:	QSW
		or Hydrology □ sig				(ii no, expic	Are normal circumsta		_	Township:	T3N
		or Hydrology □ nat					✓ Yes	NU NU	•	Range:	R12W Dir: N/A
SUMMARY OF		or riyurology <u> </u>	lurally pi	oblemati	C!		res	IV⊎		Range.	ICIZW DII. IN/A
		m + O		= Vaa	- Na			Lludvia Caila	Dunnanto		□ Vas □ Na
Hydrophytic Ve					No No			Hydric Soils		\A/:41-: A \A/-41-	☐ Yes ☑ No
Wetland Hydrol	ogy Present	?		□ Yes	✓ No			is This Samp	oling Point	Within A Wetla	and? ■ Yes ■ No
Remarks:											
HYDROLOGY											
Wetland Hydr	ology Indica	itors (Check here if	indicato	rs are no	nt presen	t 🗆)•					
Primary		itors (Oncor norch	iiidicate	ns arc no	or present	· - /.			Secondary:		
	A1 - Surface	Water			B9 - Wate	r-Stained	Leaves				il Cracks
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
	A3 - Saturation				B14 - True					C2 - Dry-Season	
	B1 - Water M				C1 - Hydr					C8 - Crayfish Bu	
	B2 - Sedimer	nt Deposits					spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep	oosits			C4 - Pres	ence of Re	duced Iron			D1 - Stunted or	Stressed Plants
	B4 - Algal Ma	at or Crust			C6 - Rece	nt Iron Re	duction in Tilled Soils			D2 - Geomorphi	ic Position
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutra	al Test
		on Visible on Aerial Ima			D9 - Gaug						
	B8 - Sparsely	Vegetated Concave S	Surface		Other (Ex	plain in Re	marks)				
Field Observat	ions:										
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	ocont?	Yes ☑ No
Water Table Pr	esent?	☐ Yes ☑ No	Depth:		(in.)			welland ny	urology Fi	esent:	res 🖾 No
Saturation Pres	ent?	☐ Yes ☑ No	Depth:		(in.)						
Doscribo Pocord	od Data (stro	am gauge, monitoring	a woll oo				\ '				
Describe Mecord	cu Dala (Sile								NI/A		
Б -	,	am gauge, monitoring	y well, ae	riai pnoto	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	•	am gauge, monitoring	g well, ae	riai pnoto	s, previou	s inspecti	ons), if available:		N/A		
	,	am gauge, monitoring	g well, ae	riai pnoto	s, previou	s inspecti	ons), if available:		N/A		
SOILS	·			·		·	ons), if available:		N/A		
SOILS Map Unit Name		FcA: Fitchville silt lo	oam, 0 to	o 2 perce	ent slopes		,				
SOILS Map Unit Name		FcA: Fitchville silt lo	oam, 0 to	o 2 perce	ent slopes		ons), if available:	Covered/Coated Sand Gra		ore Lining, M=Matrix)	
SOILS Map Unit Name		FcA: Fitchville silt lo	oam, 0 to	o 2 perce	ent slopes		on, D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Grai		ore Lining, M=Matrix)	Texture
SOILS Map Unit Name Profile Descrip	tion (Describe to t	FcA: Fitchville silt lo	oam, 0 to	o 2 perce	ent slopes		on, D=Depletion, RM=Reduced Matrix, CS=			ore Lining, M=Matrix) Location	Texture (e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip Top Depth	Bottom (Describe to	FcA: Fitchville silt lot he depth needed to document the ind	color	D 2 perce the absence of Matrix (Moist)	ent slopes indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Rede Color (Moist)	ox Features %	ins; Location: PL=Po	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom (Describe to	FcA: Fitchville silt to the depth needed to document the ind Horizon	coam, 0 to	o 2 perce the absence of Matrix (Moist) 3/4	ent slopes indicators.) (Type % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features % 	ins; Location: PL=Po	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom (Describe to to Bottom Depth 16	FcA: Fitchville silt lot he depth needed to document the ind Horizon	Color 10YR	D 2 perce the absence of Matrix (Moist) 3/4	ent slopes indicators.) (Typ % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist) 	ox Features %	Type	Location 	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	FcA: Fitchville silt let he depth needed to document the ind Horizon	Color 10YR	D 2 percent the absence of Matrix (Moist) 3/4	ent slopes indicators.) (Typ % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	%	Type	Location 	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom (Describe to to Bottom Depth 16	FcA: Fitchville silt let he depth needed to document the ind Horizon	Color 10YR	D 2 perce the absence of Matrix (Moist) 3/4 	ent slopes indicators.) (Typ % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features %	Type	Location 	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	FcA: Fitchville silt let he depth needed to document the ind Horizon	Color 10YR	D 2 percent the absence of Matrix (Moist) 3/4	ent slopes indicators.) (Typ % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	%	Type	Location 	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	FcA: Fitchville silt let he depth needed to document the ind Horizon	Color 10YR	D 2 perce the absence of Matrix (Moist) 3/4 	ent slopes indicators.) (Typ % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Redu Color (Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	FcA: Fitchville silt let he depth needed to document the ind Horizon	Color 10YR	D 2 perces the absence of Matrix (Moist) 3/4	ent slopes indicators.) (Typ % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	FcA: Fitchville silt let he depth needed to document the ind Horizon	Color 10YR	D 2 perces the absence of Matrix (Moist) 3/4	ent slopes indicators.) (Typ % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0	btion (Describe to to Depth 16	FcA: Fitchville silt lot he depth needed to document the ind Horizon	Color 10YR	b 2 perces the absence of Matrix (Moist) 3/4	% 100	e. C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist)	ox Features	Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to to Describe to to Depth 16 Soil Field In	FcA: Fitchville silt lot he depth needed to document the Ind Horizon	Color 10YR	the absence of Matrix (Moist) 3/4 cators are	% 100 e not pre	sec C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features % Indicators	Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to to Describe to to Depth 16 Soil Field In A1- Histosol	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he	Color 10YR	D 2 perce the absence of Matrix (Moist) 3/4 cators ar	ent slopes indicators) (Typ % 100 e not pre	se: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features % Indicators	Type 5 for Problem	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep	FcA: Fitchville silt lot he depth needed to document the ind Horizon	Color 10YR	D 2 perce the absence of Matrix (Moist) 3/4 cators ar	% 100 enot pre	se: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist)	ox Features % Indicators	Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Eç A3 - Black Hi	FcA: Fitchville silt lot he depth needed to document the Ind Horizon dicators (check he objedon stic	Color 10YR	D 2 perces the absence of Matrix (Moist) 3/4 cators ar	% 100 enot pre S4 - Sand S6 - Stripl	sent □ y Gleyed y Redox	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist)	ox Features % Indicators	Type Type 5 for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to to Describe to Describe to to Describe to to Describe to to Describe to Descr	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he bipedon stic in Sulfide	Color 10YR	b 2 perces the absence of Matrix (Moist) 3/4	% 100 e not pre \$4 - Sand \$55 - Sand \$56 - Stripp F1 - Loar	sec C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier	FcA: Fitchville silt lot he depth needed to document the ind Horizon	Color 10YR	D 2 perce the absence of Matrix (Moist) 3/4 cators ar	ent slopes indicators) (Typ % 100 e not pre \$4 - Sand \$5 - Sard \$6 - Strip F1 - Loam F2 - Loam	se: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to 1 Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratiffec A10 - 2 cm M	FcA: Fitchville silt lot he depth needed to document the ind Horizon	coam, 0 to	D 2 perce the absence of Matrix (Moist) 3/4 cators ar	% 100 e not pre \$4 - Sand \$55 - Sand \$56 - Stripp F1 - Loar	sent Uy Gleyed y Redox oed Matrix y Muck My Gleyed Sete Matrix y Welse Matrix of Sete Matrix of Set	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to to Describe to Descr	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he bipedon stic in Sulfide I Layers luck ad Below Dark Surface bark Surface	coam, 0 to	D 2 perces the absence of Matrix (Moist) 3/4 cators ar	mindiators.) (Type % 100	se c=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Postion (Describe to to Describe to Descri	FcA: Fitchville silt lot he depth needed to document the ind Horizon	coam, 0 to	D 2 perces the absence of Matrix (Moist) 3/4 cators ar	% 100 e not pre \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loarr F2 - Loarr F3 - Deplo	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features % Indicators	Type Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Postion (Describe to to Describe to Descri	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he bipedon stic in Sulfide I Layers luck ad Below Dark Surface bark Surface	coam, 0 to	b 2 perces the absence of Matrix (Moist) 3/4	ent slopes indicators) (Typ % 100 en not pre \$4 - Sand \$5 - Sand \$5 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features %	Type 5 for Problen A16 - Coast S7 - Dark S7 175 12 - Iron-M TF12 - Very Other (Explain	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to to Describe to Descr	FcA: Fitchville silt lot he depth needed to document the ind Horizon	coam, 0 to	the absence of Matrix (Moist) 3/4 cators ar	ent slopes indicators) (Typ % 100 en not pre \$4 - Sand \$5 - Sand \$5 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features %	Type Type	Location	(e.g. clay, sand, loam) silty clay es
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Postion (Describe to to Describe to Descri	FcA: Fitchville silt lot he depth needed to document the ind Horizon	coam, 0 to	b 2 perces the absence of Matrix (Moist) 3/4	ent slopes indicators) (Typ % 100 en not pre \$4 - Sand \$5 - Sand \$5 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features %	Type Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to to Describe to Descr	FcA: Fitchville silt lot he depth needed to document the ind Horizon	coam, 0 to	the absence of Matrix (Moist) 3/4 cators ar	ent slopes indicators) (Typ % 100 en not pre \$4 - Sand \$5 - Sand \$5 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features %	Type Type	Location	(e.g. clay, sand, loam) silty clay
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to to Describe to Descr	FcA: Fitchville silt lot he depth needed to document the ind Horizon	coam, 0 to	the absence of Matrix (Moist) 3/4 cators ar	ent slopes indicators) (Typ % 100 en not pre \$4 - Sand \$5 - Sand \$5 - Strip F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist)	ox Features %	Type Type	Location	(e.g. clay, sand, loam) silty clay



Additional Remarks:

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 26 Sample Point: SP 59 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7 8. Prevalence Index Worksheet 9. Total % Cover of: Multiply by: 10 OBL spp. x 1 = FACW spp. Total Cover = 0 x 2 =0 0 FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. 85 x 4 = 340 x 5 = 1. UPL spp. 0 0 3. Total 100 385 (B) (A) 4. 5. Prevalence Index = B/A = 3.850 6. 7. Hydrophytic Vegetation Indicators: 8. 9. ☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation 10 Yes No Dominance Test is > 50% Total Cover = Yes ✓ No Prevalence Index is ≤ 3.0 * ☑ No □ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☑ No Yes Problem Hydrophytic Vegetation (Explain) * 35 FACU Elymus canadensis * Indicators of hydric soil and wetland hydrology must be Schedonorus arundinaceus 35 FACU present, unless disturbed or problematic. FAC Ν 3. 15 Alliaria petiolata 4. Glechoma hederacea Ν **Definitions of Vegetation Strata:** 15 **FACU** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 ft. tall. 10 11 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14. 15. Woody Vines - All woody vines greater than 3.28 ft. in height. Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 1. 2 3. Hydrophytic Vegetation Present □ Yes ☑ No 4. 5. Total Cover = Remarks:



Project/Site:	North Newarl	k- Sharp Road 138 kV	Transmiss	sion Line F	Rebuild Pro	ject	Stantec Project #:	193707328		Date:	01/13/21
Applicant:	American E	Electric Power (AEP)				-			County:	Licking
Investigator #1:	Aaron Kwo	lek `	,	Investi	gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:		e silt loam, 0 to 2 perce	ent slopes			NWI	/WWI Classification:	None		Wetland ID:	Wetland 26
Landform:	Depression	,		Loc	al Relief:	Concave	Э			Sample Point:	SP 60
Slope (%):	1 '	Latitude:	40.12	24623			-82.453618	Datum:	WGS 84	Community ID:	
		litions on the site ty						☑ Yes □	No	Section:	QSW
		or Hydrology □ sig				(11 110, 0),	Are normal circumsta		_	Township:	T3N
		or Hydrology □ sig					✓ Yes	NU NU	•	Range:	R12W Dir: N/A
SUMMARY OF		or riyurology <u>a ria</u>	lurally pr	oblemati	C!		res	IAA		Nange.	IXIZW DII. INA
		m t O		= Vaa	- Na			Lludvia Caila	Dunnanto		□ Vaa □ Na
Hydrophytic Ve					□ No			Hydric Soils		A/' A \A/	☑ Yes □ No
Wetland Hydrol	ogy Present	?		Yes	□ No			Is This Samp	oling Point	Within A Wetla	nd? □ Yes ■ No
Remarks:											
HYDROLOGY											
Wetland Hydr	ology Indica	ators (Check here if	indicato	re are no	nt nresen	t 🗆)•					
Primary		itors (Check here ii	illulcato	is alt iii	or presen).			Secondary:		
<u>i milary</u>	A1 - Surface	Water			B9 - Wate	r-Stained	Leaves			B6 - Surface So	il Cracks
✓	A2 - High Wa				B13 - Aqu					B10 - Drainage	
✓	A3 - Saturation				B14 - True					C2 - Dry-Season	
	B1 - Water M				C1 - Hydr					C8 - Crayfish Bu	
	B2 - Sedimer	nt Deposits					spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep	oosits			C4 - Pres	ence of Re	duced Iron			D1 - Stunted or	Stressed Plants
	B4 - Algal Ma	at or Crust			C6 - Rece	ent Iron Re	duction in Tilled Soils		√	D2 - Geomorphi	
	B5 - Iron Dep				C7 - Thin				√	D5 - FAC-Neutra	al Test
		on Visible on Aerial Ima			D9 - Gaug						
	B8 - Sparsely	/ Vegetated Concave S	Surface		Other (Ex	plain in Re	marks)				
Field Observat	ions:										
Surface Water	Present?		Depth:	1	(in.)			Wetland Hy	drology Pr	ocont?	Yes □ No
Water Table Pr	esent?	✓ Yes □ No	Depth:	0	(in.)			welland ny	urology Fi	esent:	res - No
Saturation Pres	ent?	✓ Yes □ No	Depth:	0	(in.)						
Doccribo Pocord	nd Data (etro	am gauge monitoring	n woll ac	rial photo	e proviou	c incoacti	one) if available:		NI/A		
	ed Data (stre	am gauge, monitoring	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Describe Record Remarks:	ed Data (stre	am gauge, monitorino	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	ed Data (stre	am gauge, monitorinç	g well, ae	rial photo	s, previou	s inspection	ons), if available:		N/A		
Remarks:	·			·		·	ons), if available:		N/A		
Remarks: SOILS Map Unit Name	:	FcA: Fitchville silt lo	oam, 0 to	o 2 perce	ent slopes		,				
Remarks: SOILS Map Unit Name	:	FcA: Fitchville silt lo	oam, 0 to	o 2 perce	ent slopes		ons), if available:	Covered/Coated Sand Gra		ore Lining, M=Matrix)	
Remarks: SOILS Map Unit Name	:	FcA: Fitchville silt lo	oam, 0 to	o 2 perce	ent slopes		on, D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Gra		ore Lining, M=Matrix)	Texture
Remarks: SOILS Map Unit Name Profile Descrip	tion (Describe to	FcA: Fitchville silt lo	oam, 0 to	o 2 perce	ent slopes		on, D=Depletion, RM=Reduced Matrix, CS=			ore Lining, M=Matrix) Location	Texture (e.g. clay, sand, loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	tion (Describe to to Depth	FcA: Fitchville silt lot he depth needed to document the ind	Dam, 0 to	D 2 perce the absence of Matrix (Moist)	ent slopes indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Rede Color (Moist)	ox Features %	ins; Location: PL=Po	Location	(e.g. clay, sand, loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	tion (Describe to to Depth	FcA: Fitchville silt to the depth needed to document the ind Horizon	Color 10YR	D 2 perce the absence of Matrix (Moist) 2/1	ent slopes indicators.) (Type % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist Color (Moist)	ox Features % 	ins; Location: PL=Po	Location	(e.g. clay, sand, loam silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4	Bottom Depth 4 16	FcA: Fitchville silt lot he depth needed to document the ind Horizon	Color 10YR 10YR	D 2 perce the absence of Matrix (Moist) 2/1 3/1	ent slopes indicators.) (Typ % 100 90	e: C=Concentrati	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist) 6/8	ox Features % 10	Type	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4	Bottom Depth 4 16	FcA: Fitchville silt let the depth needed to document the ind Horizon	Color 10YR 10YR	D 2 percent the absence of Matrix (Moist) 2/1 3/1	ent slopes indicators.) (Typ % 100 90	e: C=Concentrati	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist) 6/8	% 10	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4	Bottom Depth 4 16	FcA: Fitchville silt lot he depth needed to document the ind Horizon	Color 10YR 10YR	D 2 perce the absence of Matrix (Moist) 2/1 3/1	ent slopes indicators.) (Typ % 100 90	e: C=Concentrati	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist) 6/8	ox Features % 10	Type	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4	Bottom Depth 4 16	FcA: Fitchville silt let the depth needed to document the ind Horizon	Color 10YR 10YR	D 2 percent the absence of Matrix (Moist) 2/1 3/1	ent slopes indicators.) (Typ % 100 90	e: C=Concentrati	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist) 6/8	% 10	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4	Bottom Depth 4 16	FcA: Fitchville silt let the depth needed to document the ind Horizon	Color 10YR 10YR	D 2 perce the absence of Matrix (Moist) 2/1 3/1	ent slopes indicators.) (Typ % 100 90	e: C=Concentrati	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist) 6/8	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4	Bottom Depth 4 16	FcA: Fitchville silt let the depth needed to document the ind Horizon	Color 10YR 10YR	D 2 perces the absence of Matrix (Moist) 2/1 3/1	ent slopes indicators.) (Typ % 100 90	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist) 6/8	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4	Bottom Depth 4 16	FcA: Fitchville silt let the depth needed to document the ind Horizon	Color 10YR 10YR	D 2 perces the absence of Matrix (Moist) 2/1 3/1	ent slopes indicators.) (Typ % 100 90 	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist) 6/8	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4	Bottom Depth 4 16	FcA: Fitchville silt lot he depth needed to document the ind Horizon	Color 10YR 10YR	b 2 perces the absence of Matrix (Moist) 2/1 3/1	% 100 90	10YR	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist) 6/8	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4 NRCS Hydric	Bottom Depth 4 16 Soil Field In	FcA: Fitchville silt lot he depth needed to document the Ind Horizon	Color 10YR 10YR	the absence of Matrix (Moist) 2/1 3/1 cators ar	% 100 90 ent slopes	10YR	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8	ox Features	Type C s for Problem	Location M matic Soils ¹	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4 NRCS Hydric	Bottom Depth 4 16 Soil Field In	FcA: Fitchville silt to the depth needed to document the ind Horizon	Color 10YR 10YR	D 2 perce the absence of Matrix (Moist) 2/1 3/1 cators ar	ent slopes indicators) (Typ % 100 90 e not pre	Se: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8	ox Features	Type C 5 for Problem	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic E	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he pipedon	Color 10YR 10YR	D 2 perce the absence of Matrix (Moist) 2/1 3/1 cators ar	% 100 90 enot pre	se: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8	ox Features	Type C 5 for Problem A16 - Coast S7 - Dark Sr	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi	FcA: Fitchville silt lot he depth needed to document the Ind Horizon dicators (check he oipedon stic	Color 10YR 10YR	D 2 perces the absence of Matrix (Moist) 2/1 3/1	% 100 90 e not pre S4 - Sand S6 - Stripi	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist) 6/8): Matrix	ox Features	Type C for Problem A16 - Coast S7 - Dark St F12 - Iron-M	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic Eg. A3 - Black Hi A4 - Hydroge	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he bipedon stic an Sulfide	Color 10YR 10YR	b 2 perces the absence of Matrix (Moist) 2/1 3/1 cators ar	% 100 90 e not pre 84 - Sand \$55 - Sand \$56 - Stripp F1 - Loarn	Sec C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8 Watrix	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier	FcA: Fitchville silt lot he depth needed to document the ind Horizon	Color 10YR 10YR	D 2 perce the absence of Matrix (Moist) 2/1 3/1 	ent slopes indicators) (Typ % 100 90 e not pre \$4 - Sand \$5 - Sard \$6 - Strip F1 - Loam F2 - Loam	se: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Reduction (Moist) 6/8): Matrix Matrix	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M	FcA: Fitchville silt lot he depth needed to document the ind Horizon	coam, 0 to	D 2 perce the absence of Matrix (Moist) 2/1 3/1 	% 100 90 e not pre 84 - Sand \$55 - Sand \$56 - Stripp F1 - Loarn	In the second se	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Moist) 6/8): Matrix inneral Matrix	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he objecton stic en Sulfide di Layers luck ed Below Dark Surface	coam, 0 to	D 2 perces the absence of Matrix (Moist) 2/1 3/1	% 100 90 enot pre 84 - Sand 85 - Sand 86 - Stripl F1 - Loam F3 - Deplo	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	on, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratifiee A10 - 2 cm M A11 - Deplete	FcA: Fitchville silt lot he depth needed to document the ind Horizon	coam, 0 to	D 2 perces the absence of Matrix (Moist) 2/1 3/1	% 100 90 e not pre \$4 - Sand \$5 - Sand \$6 - Strip F1 - Loarr F2 - Loarr F3 - Deplo	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8): Matrix Inneral Matrix Inface Surface Surface Surface	ox Features	Type C	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	FcA: Fitchville silt lot he depth needed to document the ind Horizon	coam, 0 to	b 2 perces the absence of Matrix (Moist) 2/1 3/1 cators ar	90 100 90 e not pre \$4 - Sand \$55 - Sand \$56 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple F	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8): Matrix Inneral Matrix Inface Surface Surface Surface	ox Features % 10 Indicators	Type C 5 for Problen A16 - Coast S7 - Dark S7 F12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy N S3 - 5 cm Mt	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he objecton stic en Sulfide d Layers luck ed Below Dark Surface duck Mineral	coam, 0 to	the absence of Matrix (Moist) 2/1 3/1 cators ar	90 100 90 e not pre \$4 - Sand \$55 - Sand \$56 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple F	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8): Matrix Inneral Matrix Inface Surface Surface Surface	ox Features % 10 Indicators Indicators of hydrophy	Type Type C 5 for Problen A16 - Coast S7 - Dark S7 TF12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 4 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplet A12 - Thick E S1 - Sandy M	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he objecton stic en Sulfide d Layers luck ed Below Dark Surface duck Mineral	coam, 0 to	b 2 perces the absence of Matrix (Moist) 2/1 3/1 cators ar	90 100 90 e not pre \$4 - Sand \$55 - Sand \$56 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple F	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8): Matrix Inneral Matrix Inface Surface Surface Surface	ox Features % 10 Indicators	Type Type C 5 for Problen A16 - Coast S7 - Dark S7 TF12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy N S3 - 5 cm Mt	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he objecton stic en Sulfide d Layers luck ed Below Dark Surface duck Mineral	coam, 0 to	the absence of Matrix (Moist) 2/1 3/1 cators ar	90 100 90 e not pre \$4 - Sand \$55 - Sand \$56 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple F	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8): Matrix Inneral Matrix Inface Surface Surface Surface	ox Features % 10 Indicators Indicators of hydrophy	Type Type C 5 for Problen A16 - Coast S7 - Dark S7 TF12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam silty clay silty clay
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 4 16 Soil Field In A1- Histosol A2 - Histic Eq. A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm W A11 - Deplet A12 - Thick E S1 - Sandy N S3 - 5 cm Mt	FcA: Fitchville silt lot he depth needed to document the ind Horizon dicators (check he objecton stic en Sulfide d Layers luck ed Below Dark Surface duck Mineral	coam, 0 to	the absence of Matrix (Moist) 2/1 3/1 cators ar	90 100 90 e not pre \$4 - Sand \$55 - Sand \$56 - Stripp F1 - Loam F2 - Loam F2 - Deple F6 - Redo F7 - Deple F	sec C=Concentrat	nn, D=Depletion, RM=Reduced Matrix, CS= Reduced Color (Moist) 6/8): Matrix Inneral Matrix Inface Surface Surface Surface	ox Features % 10 Indicators Indicators of hydrophy	Type Type C 5 for Problen A16 - Coast S7 - Dark S7 TF12 - Iron-M TF12 - Very Other (Expla	Location M	(e.g. clay, sand, loam silty clay silty clay



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: Wetland 26 Sample Point: SP 60 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) 3. 4. Total Number of Dominant Species Across All Strata: 4 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7 8. Prevalence Index Worksheet 9. Total % Cover of: Multiply by: 10 OBL spp. x 1 = 130 FACW spp. Total Cover = 0 x 2 =25 50 FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. x 4 = 20 x 5 = 1. Rosa palustris 30 OBL UPL spp. 0 0 Salix nigra 60 OBL 3. Total 190 290 (B) (A) 4. 5. Prevalence Index = B/A = 1.526 6 7. Hydrophytic Vegetation Indicators: 8. 9. Yes □ No Rapid Test for Hydrophytic Vegetation □ No 10 J Yes Dominance Test is > 50% Total Cover = 90 1 Yes □ No Prevalence Index is ≤ 3.0 * ☑ No □ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☑ No Yes Problem Hydrophytic Vegetation (Explain) * 25 **FACW** Symphyotrichum novae-angliae * Indicators of hydric soil and wetland hydrology must be Typha latifolia 30 Ν OBL present, unless disturbed or problematic. 30 3. Υ FAC Alliaria petiolata 4. Blephilia hirsuta Ν FACU **Definitions of Vegetation Strata:** Epilobium coloratum 5. 10 Ν OBL 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 ft. tall. 10 11. 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14. 15. Woody Vines - All woody vines greater than 3.28 ft. in height. Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 1. 2 3. Hydrophytic Vegetation Present ☑ Yes ☐ No 4. 5. Total Cover = Remarks: Additional Remarks:



Project/Site:	North Newa	ark- Sharp Road 13	88 kV Tra	ansmissio	on Line R	ebuild Pr	oject Stantec Project #	#: 19370732	8	Date:	03/03/21
Applicant:	American E	lectric Power (AEF	P)							County:	Licking
Investigator #1			,	Investi	gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:	Stonelick L	oam, Occasionally	Flooded		94101 //21		IWI/WWI Classification	: R3LISA		4	N/A
Landform:	Toeslope	oam, oooasionany	1 100000		al Relief:		evi, vv vvi Glassilloation	. 1100071		Sample Point:	
		1 -44					255	D-4	WOO 04		
Slope (%):	0	Latitude	40.11178	L(ongitude:	-82.442	355		WGS 84	Community ID:	
		itions on the site ty				(If no, expla		Yes □	No	Section:	N/A
Are Vegetation	🗆 ,Soil 🗆 ,	or Hydrology 🗆 sig	gnificantl	y disturb	ed?		Are normal circumsta	ances present?	•	Township:	N/A
Are Vegetation	□ , Soil □ ,	or Hydrology <u> □ n</u> a	turally pi	roblemati	ic?		✓ Yes	NŪ		Range:	N/A Dir: N/A
SUMMARY OF		, 0,								Ü	
Hydrophytic Ve		cent?		□ Vec	□ No			Hydric Soils I	Drecent?		□ Yes ☑ No
										A/:41-: A \A/-41-	
Wetland Hydro	logy Present	<u> </u>		□ Yes	☑ No			is this Samp	ling Point	Within A Wetla	and? ■ Yes ■ No
Remarks:											
HYDROLOGY											
		4 (0) 11 '	C : 1: 1								
		itors (Check here i	t indicato	ors are no	ot presen	t ⊔):					
<u>Primary</u>									Secondary:		
					B9 - Wate					B6 - Surface So	
	A2 - High Wa	iter Table			B13 - Aqu	ıatic Fauna	l			B10 - Drainage	Patterns
	A3 - Saturation	on			B14 - True					C2 - Dry-Season	
	B1 - Water M	arks			C1 - Hydr	ogen Sulfi	de Odor			C8 - Crayfish Bu	urrows
	B2 - Sedimer	nt Deposits			C3 - Oxidi	ized Rhizo	spheres on Living Roots			C9 - Saturation	Visible on Aerial Imagery
	B3 - Drift Dep	osits			C4 - Pres	ence of Re	duced Iron			D1 - Stunted or	Stressed Plants
	B4 - Algal Ma	nt or Crust			C6 - Rece	ent Iron Re	duction in Tilled Soils			D2 - Geomorphi	ic Position
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutra	al Test
	B7 - Inundation	on Visible on Aerial Im	agery		D9 - Gaud	ae or Well	Data				
		Vegetated Concave S			Other (Ex						
	,	<u>.</u>				•	,				
Field Observed											
Field Observa											
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Pr	ocont2	Yes ☑ No
Water Table Pr	esent?	☐ Yes ☑ No	Depth:		(in.)			welland my	arology Fi	esciit:	res 🖾 NO
Saturation Pres		□ Yes ☑ No	Depth:		(in.)						
Outuration 1 100	ont:	- 100 - 110	Вории.		()						
Describe Record	ad Data (atra	ana marraa maanitarin									
D 00011100 1 10001 0	eu Dala (Sile	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
	eu Dala (Sile	am gauge, monitorin	g well, ae	rial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	eu Dala (Sile	am gauge, monitorin	g well, ae	erial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	ed Data (Sile	am gauge, monitorin	g well, ae	erial photo	s, previou	s inspecti	ons), if available:		N/A		
Remarks:	,			·		s inspecti	ons), if available:		N/A		
Remarks: SOILS Map Unit Name	e:	Stonelick Loam, O	ccasiona	ally Flood	ed	·	,				
Remarks: SOILS Map Unit Name	e:	Stonelick Loam, O	ccasiona	ally Flood	ed	·	,			vre Lining, M=Matrix)	
Remarks: SOILS Map Unit Name Profile Descrip	e: Otion (Describe to the	Stonelick Loam, O	ccasiona	ally Flood	ed	·	on, D=Depletion, RM=Reduced Matrix, CS=	=Covered/Coated Sand Graii		ore Lining, M=Matrix)	Texture
Remarks: SOILS Map Unit Name Profile Descrip Top	e: Dtion (Describe to the Bottom	Stonelick Loam, O	ccasiona dicator or confirm	ally Flood in the absence of Matrix	ed indicators.) (Type	·	on, D=Depletion, RM=Reduced Matrix, CS=	-Covered/Coated Sand Grain	ns; Location: PL=Po	ı	Texture
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	e: otion (Describe to the Bottom Depth	Stonelick Loam, O ne depth needed to document the in Horizon	ccasiona dicator or confirm	ally Flood In the absence of Matrix (Moist)	ed indicators.) (Type	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain	ns; Location: PL=Po	Location	(e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top	e: Dtion (Describe to the Bottom	Stonelick Loam, O	ccasiona dicator or confirm	ally Flood in the absence of Matrix	ed indicators.) (Type	·	on, D=Depletion, RM=Reduced Matrix, CS=	-Covered/Coated Sand Grain	ns; Location: PL=Po	ı	
Remarks: SOILS Map Unit Name Profile Descrip Top Depth	e: otion (Describe to the Bottom Depth	Stonelick Loam, O ne depth needed to document the in Horizon	ccasiona dicator or confirm	ally Flood In the absence of Matrix (Moist)	ed indicators.) (Type	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain	ns; Location: PL=Po	Location	(e.g. clay, sand, loam)
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	e: Bottom Depth 16	Stonelick Loam, O ne depth needed to document the in Horizon 1	ccasiona dicator or confirm Color 10YR	Matrix (Moist) 4/3	ed indicators.) (Type % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	Covered/Coated Sand Grait	ns; Location: PL=Po Type 	Location 	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	e: Bottom Depth 16	Stonelick Loam, O ne depth needed to document the in Horizon 1	ccasiona dicator or confirm Color 10YR	ally Flood In the absence of Matrix (Moist) 4/3	ed indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grait	Type	Location 	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	e: Bottom Depth 16	Stonelick Loam, O ne depth needed to document the in Horizon 1	ccasiona dicator or confire Color 10YR	Matrix (Moist) 4/3	ed indicators.) (Type % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	Covered/Coated Sand Grait	ns; Location: PL=Po Type 	Location 	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	e: Bottom Depth 16	Stonelick Loam, O ne depth needed to document the in Horizon 1	ccasiona dicator or confirm Color 10YR	ally Flood In the absence of Matrix (Moist) 4/3	ed indicators.) (Typ	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grait	Type	Location 	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Dtion (Describe to to to Depth 16	Stonelick Loam, O ne depth needed to document the in Horizon 1	ccasiona dicator or confire Color 10YR	ally Flood n the absence of Matrix (Moist) 4/3	ed indicators.) (Type % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grail	ns; Location: PL=Po	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom (Describe to to to Depth 16	Stonelick Loam, O ne depth needed to document the in Horizon 1	CCasiona dicator or confirmation of the confir	ally Flood n the absence of Matrix (Moist) 4/3	ed indicators.) (Type % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	F-Covered/Coated Sand Grail	Type	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	e: Bottom Depth 16	Stonelick Loam, O ne depth needed to document the in Horizon 1	CCasiona dicator or confirmation of the confir	ally Flood n the absence of Matrix (Moist) 4/3	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	=Covered/Coated Sand Grain	Type Type		(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Stonelick Loam, O ne depth needed to document the in Horizon 1	CCasiona Color Color 10YR	ally Flood in the absence of Matrix (Moist) 4/3	ed % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain	Type		(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 16	Stonelick Loam, O ne depth needed to document the in Horizon 1	CCasiona Color Color 10YR	ally Flood in the absence of Matrix (Moist) 4/3	ed % 100	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain	Type Type		(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In	Stonelick Loam, O ne depth needed to document the in Horizon 1	CCasiona Color Color 10YR cre if indi	ally Flood In the absence of Matrix (Moist) 4/3 cators ar	ed // indicators) (Typ % 100 er not pre	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators	Type for Problem	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he	CCasiona Color Color 10YR cre if indi	Matrix (Moist) 4/3 cators ar	ed indicators) (Type % 100 e not pre S4 - Sand	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain lox Features %	Type for Problen A16 - Coast	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bition (Describe to the Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he	CCasiona Color Color 10YR cre if indi	Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	Covered/Coated Sand Grait lox Features % Indicators	Type for Problem A16 - Coast S7 - Dark Si	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Er A3 - Black Hi	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he	CCasiona Color Color 10YR cre if indi	Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	Covered/Coated Sand Grain OX Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he bipedon stic	CCasiona Color Color 10YR cre if indi	ally Flood In the absence of Matrix (Moist) 4/3 cators ar	ed // indicators) (Typ // 100 e not pre S4 - Sand S5 - Sand S6 - Strip F1 - Loar	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features %	Type for Problen A16 - Coast S7 - Dark S1 F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he oipedon stic n Sulfide I Layers	CCasiona Color Color 10YR cre if indi	Matrix (Moist) 4/3 cators ar	ed indicators) (Typ % 100 e not pre \$4 - Sand \$5 - Sard \$6 - Strip F1 - Loam F2 - Loam	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features %	Type for Problen A16 - Coast S7 - Dark S1 F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth NRCS Hydric	Bottom (Describe to the Bottom Depth 16	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he oipedon stic n Sulfide d Layers uck	CCASIONA CCOLOR 10YR	ally Flood the absence of Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features %	Type for Problen A16 - Coast S7 - Dark S1 F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he objectors) stic n Sulfide d Layers uck ad Below Dark Surface	CCASIONA CCOLOR 10YR	Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features %	Type for Problen A16 - Coast S7 - Dark S1 F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he bipedon stic n Sulfide t Layers uck ad Below Dark Surface lark Surface	CCASIONA CCOLOR 10YR	ally Flood In the absence of Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features %	Type for Problen A16 - Coast S7 - Dark S1 F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet S1 - Sandy M	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he oipedon stic n Sulfide d Layers uck de Below Dark Surface lark Surface	CCASIONA CCOLOR 10YR	Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coaled Sand Grain lox Features %	Type for Problen A16 - Coast S7 - Dark SF F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet S1 - Sandy M	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he bipedon stic n Sulfide t Layers uck ad Below Dark Surface lark Surface	CCASIONA CCOLOR 10YR	ally Flood In the absence of Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coaled Sand Grain lox Features %	Type for Problen A16 - Coast S7 - Dark SF F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplet S1 - Sandy M	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he oipedon stic n Sulfide d Layers uck de Below Dark Surface lark Surface	CCASIONA CCOLOR 10YR	ally Flood In the absence of Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coaled Sand Grain lox Features %	Type Type for Problen A16 - Coast S7 - Dark S7 - Dark S7 - Dark S7 - Very Other (Explain	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Scilon (Describe to IIII) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he oipedon stic n Sulfide d Layers uck de Below Dark Surface lark Surface	CCASIONA CCOLOR 10YR	ally Flood in the absence of Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators Indicators of hydrophytt	Type Type for Problen A16 - Coast S7 - Dark S7 - Dark S7 - Dark S7 - Very Other (Explain	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Scilon (Describe to IIII) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he oipedon stic n Sulfide d Layers uck de Below Dark Surface lark Surface	CCASIONA CCOLOR 10YR	ally Flood in the absence of Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators Indicators of hydrophytt	Type Type for Problen A16 - Coast S7 - Dark S7 - Dark S7 - Dark S7 - Very Other (Explain	Location	(e.g. clay, sand, loam) fine sandy loam
Remarks: SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Scilon (Describe to IIII) Bottom Depth 16 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A10 - 2 cm M A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu	Stonelick Loam, O ne depth needed to document the in Horizon 1 dicators (check he oipedon stic n Sulfide d Layers uck de Below Dark Surface lark Surface	CCASIONA CCOLOR 10YR	ally Flood in the absence of Matrix (Moist) 4/3 cators ar	ed	e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators Indicators of hydrophytt	Type Type for Problen A16 - Coast S7 - Dark S7 - Dark S7 - Dark S7 - Very Other (Explain	Location	(e.g. clay, sand, loam) fine sandy loam



10 11 12

13. 14. 15.

> 1. 2. 3.

4. 5.

Pomarke

Woody Vine Stratum (Plot size: 30 ft radius)

WETLAND DETERMINATION DATA FORM Midwest Region

Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: N/A Sample Point: SP 61 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2. Number of Dominant Species that are OBL, FACW, or FAC: 3. 4. Total Number of Dominant Species Across All Strata: 1 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) 7 8. Prevalence Index Worksheet 9. Total % Cover of: Multiply by: 10 OBL spp. x 1 = FACW spp. Total Cover = 0 x 2 =100 200 FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. x 4 = 0 x 5 = 1. UPL spp. 0 0 3. Total 100 200 (B) (A) 4. Prevalence Index = B/A = ___ 5. 2.000 6. 7. Hydrophytic Vegetation Indicators: 8. 9. ☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation 10 J Yes □ No Dominance Test is > 50% Total Cover = ď Yes □ No Prevalence Index is ≤ 3.0 * ☑ No □ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☑ No Yes Problem Hydrophytic Vegetation (Explain) * 95 **FACW** Phalaris arundinacea * Indicators of hydric soil and wetland hydrology must be Verbesina alternifolia Ν **FACW** present, unless disturbed or problematic. **FACW** 3. Ν Verbena hastata 3 4. Ν **FACW Definitions of Vegetation Strata:** Conium maculatum 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9

ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☑ Yes ☐ No

Nonano.
Additional Remarks:

Total Cover =

Total Cover =



Project/Site:											
Project/Site.	North News	ark- Sharp Road 13	8 kV Tra	ansmissio	on Line R	ebuild Pr	oject Stantec Project :	#: 19370732	28	Date:	03/03/21
Applicant:	American E	lectric Power (AEF	P)							County:	Licking
Investigator #1:			,	Investi	gator #2:	Kate Bo	mar			State:	Ohio
Soil Unit:		oam, 0-2% Slopes, Oc	casionally		gato: #2.		IWI/WWI Classification	· PFM1C		4	N/A
Landform:	Rise	Jann, 0-270 Olopes, Oc	casionany		al Relief:		evi, vv vvi Glassilloation	i. I Livi IO		Sample Point:	
		Latituda	40 40005				770	Dotum	MCC 04		
Slope (%):	0	Latitude	40.13335	41-1- 41	ongitude:	-82.459	778		WGS 84	Community ID:	
		itions on the site ty				(If no, expla		Yes □	No	Section:	N/A
Are Vegetation	🗆 ,Soil 🗆 ,	or Hydrology □ sig	gnificantl	y disturb	ed?		Are normal circumsta	ances present?	•	Township:	N/A
Are Vegetation	🗆 , Soil 🗆 ,	or Hydrology <u> □ n</u> a	turally pr	roblemat	ic?		✓ Yes	NŪ		Range:	N/A Dir: N/A
SUMMARY OF		, ,,,	, ,								
Hydrophytic Ve		sent?		□ Yes	☑ No			Hydric Soils I	Present?		□ Yes ☑ No
Wetland Hydrol					☑ No					Within A Wetla	
	ogy Fresent	!		L 165	□ INU			is this Samp	ing Foint	Willim A Wella	ind! = res = NO
Remarks:											
HYDROLOGY											
Watland Hudr	alamı İndias	toro (Chaok hara i	findicate	oro oro n	ot procen	+ ¬ \.					
		itors (Check here i	i iliulcaic	ors are m	ot presen	ι ⊔).			Casandan		
Primary:		10/-4			DO 14/-4-	04-:			Secondary:	DC Cf C-	il Canada
	A1 - Surface				B9 - Wate					B6 - Surface So	
	A2 - High Wa				B13 - Aqu					B10 - Drainage	
	A3 - Saturation				B14 - True					C2 - Dry-Season	
	B1 - Water M				C1 - Hydr					C8 - Crayfish Bu	
	B2 - Sedimer						spheres on Living Roots				Visible on Aerial Imagery
	B3 - Drift Dep						duced Iron			D1 - Stunted or	
	B4 - Algal Ma						duction in Tilled Soils			D2 - Geomorphi	
	B5 - Iron Dep				C7 - Thin					D5 - FAC-Neutra	al Test
		on Visible on Aerial Im			D9 - Gaug						
	B8 - Sparsely	Vegetated Concave S	Surface		Other (Ex	plain in Re	marks)				
Field Observat	ions:										
Surface Water		□ Yes ☑ No	Donth		(in.)						
			Depth:		. ,			Wetland Hyd	drology Pr	esent?	Yes ☑ No
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)						
Saturation Pres	ent?	□ Yes 🗵 No	Depth:		(in.)						
Describe Record	ed Data (stre	am gauge, monitorin	n well ae	rial nhoto	s previou	s inspecti	ons) if available:		N/A		
	od Bata (otro	am gaago, montom	9 11011, 40	mai prioto	o, proviou						
							,,				
Remarks:							,				
							,				
SOILS						·	,				
	y:	Shoals Silt Loam, (0-2% Slc	pes, Oc	casionally	·	,				
SOILS Map Unit Name						· / Flooded			ns; Location: PL=Po	ore Lining, M=Matrix)	
SOILS Map Unit Name Profile Descrip	otion (Describe to t			n the absence of	indicators.) (Typ	· / Flooded	on, D=Depletion, RM=Reduced Matrix, CS=	=Covered/Coated Sand Graii	ns; Location: PL=Po	ore Lining, M=Matrix)	Teyture
SOILS Map Unit Name Profile Descrip Top	Bottom (Describe to the	ne depth needed to document the inc	dicator or confirm	n the absence of Matrix	indicators.) (Typ	· / Flooded	on, D=Depletion, RM=Reduced Matrix, CS=	-Covered/Coated Sand Grain		ı	Texture
SOILS Map Unit Name Profile Descrip Top Depth	Bottom (Describe to the Bottom) Depth	he depth needed to document the in	Color	Matrix (Moist)	indicators.) (Typ	· / Flooded	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain	ns; Location: PL=Po	ore Lining, M=Matrix) Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip Top	Bottom (Describe to the	ne depth needed to document the inc	dicator or confirm	n the absence of Matrix	indicators.) (Typ	· / Flooded	on, D=Depletion, RM=Reduced Matrix, CS=	-Covered/Coated Sand Grain		ı	
SOILS Map Unit Name Profile Descrip Top Depth	Bottom (Describe to the Bottom) Depth	he depth needed to document the in	Color	Matrix (Moist)	indicators.) (Typ	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain	Туре	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom (Describe to the Bottom Depth	ne depth needed to document the in Horizon	Color 10YR	Matrix (Moist)	indicators.) (Typ	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist) 	-Covered/Coated Sand Grain	Type 	Location 	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom (Describe to the Bottom Depth 6	Horizon 1	Color 10YR	Matrix (Moist) 4/4	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grait	Type 	Location 	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 6	Horizon 1	Color 10YR	Matrix (Moist) 4/4	% 100	/ Flooded	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grail	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom (Describe to the Bottom Depth 6	Horizon 1	Color 10YR	Matrix (Moist) 4/4	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grait	Type 	Location 	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 6	Horizon 1	Color 10YR	Matrix (Moist) 4/4	% 100	/ Flooded	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grail	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0	Bottom Depth 6	Horizon 1	Color 10YR	n the absence of Matrix (Moist) 4/4	9/0 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	F-Covered/Coated Sand Grail	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0	Dition (Describe to the Bottom Depth 6	Horizon 1	Color 10YR	n the absence of Matrix (Moist) 4/4	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	=Covered/Coated Sand Grain	Type		(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0	Describe to the Bottom Depth 6	Horizon 1	Color 10YR	n the absence of Matrix (Moist) 4/4	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	btion (Describe to the Bottom Depth 6 Soil Field In	Horizon 1	Color 10YR	m the absence of Matrix (Moist) 4/4 cators ai	% 100 re not pre	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	btion (Describe to it Bottom Depth 6 Soil Field In A1- Histosol	Horizon 1 dicators (check he	Color 10YR	m the absence of Matrix (Moist) 4/4 cators ai	% 100	/ Floodec e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain lox Features %	Type for Problen A16 - Coast	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to it Bottom Depth 6 Soil Field In A1- Histosol A2 - Histic Eg	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 4/4 cators al	% 100 S5 - Sand	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	Covered/Coated Sand Grait lox Features % Indicators	Type for Problem A16 - Coast S7 - Dark St	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to it Bottom Depth 6 Soil Field In A1- Histosol	Horizon 1 dicators (check he	Color 10YR	matrix (Moist) 4/4 cators ar	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	Covered/Coated Sand Grain OX Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to it Bottom Depth 6 Soil Field In A1- Histosol A2 - Histic Eg	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 4/4 cators al	% 100 S5 - Sand	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	Covered/Coated Sand Grain OX Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Describe to it Bottom Depth 6 Soil Field In A1- Histosol A2 - Histic Eç A3 - Black Hi	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 4/4 cators ar	% 100 e not pre	/ Floodec e. C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to at Bottom Depth 6 Soil Field In A1- Histosol A2 - Histic Eg. A3 - Black Hi A4 - Hydroge	Horizon 1 dicators (check he	Color 10YR	Matrix (Moist) 4/4 cators ar	% 100	y Floodec e: C=Concentrat	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 6	Horizon 1 dicators (check he bipedon stic n Sulfide I Layers uuck ad Below Dark Surface and Below Dar	Color 10YR	Matrix (Moist) 4/4 -	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Bottom Depth 6 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratiffec A10 - 2 cm M	Horizon 1 dicators (check he bipedon stic n Sulfide I Layers uuck ad Below Dark Surface and Below Dar	Color 10YR	Matrix (Moist) 4/4 cators al	% 100	/ Floodec	nn, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 6	Horizon 1 dicators (check he bipedon stic n Sulfide d Layers uck ad Below Dark Surface ark Surface ark Surface ark Surface	Color 10YR	matrix (Moist) 4/4 cators ar	% 100	/ Floodec	nn. D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 6 Soil Field In A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplets A12 - Thick D S1 - Sandy N	Horizon 1 dicators (check he bipedon stic n Sulfide d Layers uck ad Below Dark Surface ark Surface ark Surface ark Surface	Color 10YR	matrix (Moist) 4/4 cators ar	% 100	/ Floodec	nn. D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coaled Sand Grain lox Features %	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric:	btion (Describe to at Depth 6 6	Horizon 1 dicators (check he bipedon stic n Sulfide B Layers luck de Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR	Matrix (Moist) 4/4 cators ar	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators Indicators of hydrophytt	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth O NRCS Hydric	Bottom Depth 6 Soil Field In A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratifier A10 - 2 cm M A11 - Deplets A12 - Thick D S1 - Sandy N	Horizon 1 dicators (check he bipedon stic n Sulfide B Layers luck de Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR	matrix (Moist) 4/4 cators ar	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coaled Sand Grain lox Features %	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	btion (Describe to at Depth 6 6	Horizon 1 dicators (check he bipedon stic n Sulfide B Layers luck de Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR	Matrix (Moist) 4/4 cators ar	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators Indicators of hydrophytt	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric	btion (Describe to at Depth 6 6	Horizon 1 dicators (check he bipedon stic n Sulfide B Layers luck de Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR	Matrix (Moist) 4/4 cators ar	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators Indicators of hydrophytt	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Profile Descrip Top Depth 0 NRCS Hydric :	btion (Describe to at Depth 6 6	Horizon 1 dicators (check he bipedon stic n Sulfide B Layers luck de Below Dark Surface luck Mineral cky Peat or Peat	Color 10YR	Matrix (Moist) 4/4 cators ar	% 100	/ Floodec	on, D=Depletion, RM=Reduced Matrix, CS= Red Color (Moist)	-Covered/Coated Sand Grain IOX Features % Indicators Indicators of hydrophytt	Type for Problen A16 - Coast S7 - Dark St F12 - Iron-M TF12 - Very Other (Expla	Location	(e.g. clay, sand, loam) fine sandy loam



Project/Site: North Newark- Sharp Road 138 kV Transmission Line Rebuild Project Wetland ID: N/A Sample Point: SP 62 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Picea abiea 15 **UPL** 2. Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) 7 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: 10 OBL spp. x 1 = FACW spp. Total Cover = 15 x 2 =0 0 FAC spp. x 3 = Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. x 4 = 400 100 x 5 = 1. UPL spp. 15 75 3. Total 115 475 (A) 4. Prevalence Index = B/A = ___ 5. 4.130 6. 7. Hydrophytic Vegetation Indicators: 8. 9. ☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation 10 Yes No Dominance Test is > 50% Total Cover = Yes ✓ No Prevalence Index is ≤ 3.0 * ☑ No □ Yes Morphological Adaptations (Explain) * Herb Stratum (Plot size: 5 ft radius) ☑ No Yes Problem Hydrophytic Vegetation (Explain) * 95 FACU Schedonorus arundinaceus * Indicators of hydric soil and wetland hydrology must be Taraxacum officinale 5 Ν FACU present, unless disturbed or problematic. 3. 4. **Definitions of Vegetation Strata:** 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 9 ft. tall. 10 11 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14. 15. Woody Vines - All woody vines greater than 3.28 ft. in height. Total Cover = Woody Vine Stratum (Plot size: 30 ft radius) 1. 2 3. Hydrophytic Vegetation Present □ Yes ☑ No 4. 5. Total Cover = Remarks:

Additional Remarks:

NORTH NEWARK-SHARP ROAD 138 KV TRANSMISSION LINE REBUILD PROJECT ECOLOGICAL RESOURCES INVENTORY REPORT

April 23, 2021

D.2 ORAM DATA FORMS



D.2

	Ohio Rapid Assessment Method for Wetlands 10 Page Form for Wetland Categorization		
Version 5.0	Background Information Scoring Boundary Worksheet Narrative Rating Field Form Quantitative Rating ORAM Summary Worksheet Wetland Categorization Worksheet	Ohio EPA, Division of Surface Water Final: February 1, 2001	

Instructions

The investigator is STRONGLY URGED to read the Manual for Using the Ohio Rapid Assessment Method for Wetlands for further elaboration and discussion of the questions below prior to using the rating forms.

The Narrative Rating is designed to categorize a wetland or to provide alerts to the Rater based on the presence or possible presence of threatened or endangered species. The presence or proximity of such species is often an indicator of the quality and lack of disturbance of the wetland being evaluated. In addition, it is designed to categorize certain wetlands as very low quality (Category 1) or very high quality (Category 3) regardless of the wetland's score on the Quantitative Rating. In addition, the Narrative Rating also alerts the investigator that a particular wetland *may* be a Category 3 wetland, again, regardless of the wetland's score on the Quantitative Rating.

It is *VERY IMPORTANT* to properly and thoroughly answer each of the questions in the ORAM in order to properly categorize a wetland. To *properly* answer all the questions, the boundaries of the wetland being assessed must be correctly identified. Refer to Scoring Boundary worksheet and the User's Manual for a discussion of how to determine the "scoring boundaries." In some instances, the scoring boundaries may differ from the "jurisdictional boundaries."

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories. The most recent version of this document is posted on Ohio EPA's Division of Surface Water web page at: http://www.epa.ohio.gov/dsw/wetlands/WetlandEcologySection.aspx

Background Information

Name: Agran Kwolek	
Date:	
Z0 9 Z 2 Affiliation:	
Stantec	
Address: 11687 Lebanon Rd Cincinnati, OH 45241	
Phone Number: 513 847 8200	
e-mail address:	
Name of Wetland: 11/2 Hand	_
Westana	
Vegetation Communit(les): PEM	
HGM Class(es): Delsessional	
Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.	-
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Lat/Long or UTM Coordinate 40.089838°N, -82,416188°W	
Newerk	
County	
Township	
Section and Subsection	
RIZW, QNE	
Hydrologic Unit Code 050400060205	
Site Visit 2019 17 12	
National Welland Inventory Map	
Ohio Wetland Inventory Map	
Soil Survey	
Pg-Pibs, gravel Delineation report/map	
See Ecological Resources Inventory Report	

Name of Wetland: Wetland		
Wetland Size (acres, hectares): 40,144 Sketch: Include north arrow, relationship with other surface water		
Sketch: Include north arrow, relationship with other surface water	s, vegetation zones, etc.	
	Surey great	
Industrial 1	The state of the s	
omments, Narrative Discussion, Justification of Category Chang	es:	
Final score :	Category: /	

Wetland 1

Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundary of an isolated cattail marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous or connected wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's scoring boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like property fences, roads, or railroad embankments, wetlands that are contiguous with streams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater contact Ohio EPA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	/	
Step 2	Identify the locations where there is physical evidence that hydrology changes rapidly. Such evidence includes both natural and human-induced changes including, constrictions caused by berms or dikes, points where the water velocity changes rapidly at rapids or falls, points where significant inflows occur at the confluence of rivers, or other factors that may restrict hydrologic interaction between the wetlands or parts of a single wetland.	/	
Step 3	Delineate the boundary of the wetland to be rated such that all areas of interest that are contiguous to and within the areas where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	/	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	/	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual classifications.	/	

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

Wetland 1

Narrative Rating

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), http://www.dnr.state.oh.us/dnap. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	NO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland. Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	NO Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly Sphagnum spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	NO Go to Question 8a
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	Go to Question 8b

Wetland	
1	

			/
8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES Wetland should be evaluated for possible Category 3 status. Go to Question 9a	NO Go to Question 9a
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	NO Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 10	
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 10
9d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES Wetland is a Category 3 wetland Go to Question 10	NO Go to Question 9e
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES Wetland should be evaluated for possible Category 3 status Go to Question 10	NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	YES Wetland is a Category 3 wetland. Go to Question 11	NO Go to Question 11
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of westem Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, Van Wert etc.).	YES Wetland should be evaluated for possible Category 3 status Complete Quantitative Rating	Complete Quantitative Rating

Table 1. Characteristic plant species.

invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species
Lythrum salicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Myriophyllum spicatum	Cacalia plantaginea	Carex atlantica var. capillacea	Carex lasiocarpa	Calamogrostis stricta
Najas minor	Carex flava	Carex echinata	Carex stricta	Carex atherodes
Phalaris arundinacea	Carex sterilis	Carex oligosperma	Cladium mariscoides	Carex buxbaumi
Phragmites australis	Carex stricta	Carex trisperma	Calamagrostis stricta	Carex pellita
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii
Ranunculus ficaria	Eleocharis rostellata	Decodon verticillatus	Quercus palustris	Gentiana andrewsi
Rhamnus frangula	Eriophorum viridicarinatum	Eriophorum virginicum		Helianthus grosseserratus
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris spicata
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora
71 0	Parnassia glauca	Schechzeria palustris		Lythrum alatun
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginianun
	Rhamnus alnifolia	Vaccinium macrocarpon		Silphium terebinthinaceun
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum nutans
	Salix candida	Vaccinium oxycoccos		Spartina pectinata
	Salix myricoides	Woodwardia virginica		Solidago riddelli
	Salix serissima	Xyris difformis		
	Solidago ohioensis			
	Tofieldia glutinosa			
	Triglochin maritimum			
	Triglochin palustre			

End of Narrative Rating. Begin Quantitative Rating on next page.

Site:	Wet	and 1		Rater(s): AJK		Date: /2//2//9
0	0		. Wetland A			
max 6 pts.	Bioldua	>50 a 25 to 10 to 3 to < 0.3 to	class and assign sconteres (>20.2ha) (6 pts) <50 acres (10.1 to <20 <25 acres (4 to <10.1 to <10 acres (1.2 to <4ha) o <3 acres (0.12 to <1.3 o <0.3 acres (0.04 to <0	0.2ha) (5 pts) na) (4 pts) (3 pts) 2ha) (2pts)		
1	1	Metric 2	. Upland bu	ffers and surrou	nding land use	
max 14 pts.	subtole	WIDE MED NAR VER' 2b. Intensity of VER LOW MOD	E. Buffers average 50r IUM. Buffers average ROW. Buffers average Y NARROW. Buffers a S surrounding land use Y LOW. 2nd growth or J. Old field (>10 years) ERATELY HIGH. Res	Select only one and assign scom (164ft) or more around wetla 25m to <50m (82 to <164ft) are 10m to <25m (32ft to <82ft) average <10m (<32ft) around with Select one or double check arolder forest, prairie, savannah, shrub land, young second gradential, fenced pasture, park, pen pasture, row cropping, mini	and perimeter (7) round wetland perimeter (4) around wetland perimeter (1) vetland perimeter (0) and average. n, wildlife area, etc. (7) owth forest. (5) conservation tillage, new fa	= =
7	8		. Hydrology		The state of the s	•
max 30 pts.	subtotal	High Olhe Prec Seas Seas >0.7 0.4 to <0.4 to <	(27.6in) (3) o 0.7m (15.7 to 27.6in) m (<15.7in) (1)	ce water (3) ke or stream) (5) nly one and assign score. (2) c regime. Score one or double	Part of welland. Part of riparian 3d. Duration inundation/s Semi- to perma Regularly inund Seasonally inun Seasonally sati	hain (1) Alake and other human use (1) Alake and other human use (1) Appland (e.g. forest), complex (1) or upland corridor (1) aturation. Score one or dbl check. nently inundated/saturated (4) lated/saturated (3)
		Reco	e or none apparent (12 overed (7) overing (3) ent or no recovery (1)	Check all disturbances obse	point source (n filling/grading road bed/RR tri dredging other_	
3		Metric 4	. Habitat Al	teration and Dev	elopment.	*
max 20 pts.	subtotal	None Reco Reco 4b. Habitat de Exce Very Goo Mod Fair	e or none apparent (4) overed (3) overing (2) ent or no recovery (1) velopment. Select onlellent (7) good (6) d (5) erately good (4) (3) t to fair (2)	e or double check and average	e.	
			eration. Score one or	double check and average.		
	aubtotal lhis p	Rec Rec	e or none apparent (9) overed (6) overing (3) ent or no recovery (1)	Check all disturbances obs mowing grazing clearcutting selective cutting woody debris remova toxic pollutants	shrub/sapling r herbaceous/aq sedimentation dredging	uatic bed removal

Site:	Wetland I	Rater(s)	AJIC		Date: 12/12/19
SI.	btotal first page // Metric 5. Specia	al Wetlands	5.		
max 10 pts.	subtotal Check all that apply and score Bog (10) Fen (10) Old growth forest (10) Mature forested wetl Lake Erie coastal/trit Lake Plain Sand Pra Relict Wet Prairies (1)	as indicated.)) and (5) butary wetland-unrestricties (Oak Openings 10) tate/federal threaten songbird/water fowl	stricted hy cted hydro) (10) ed or end habitat o	angered species (10)	
-5				erspersion, microto	opography.
max 20 pts.	subtotal 6a. Wetland Vegetation Comm	nunities. Ve	egetation	Community Cover Scale	
	Score all present using 0 to 3 s		0	Absent or comprises <0.1ha (0.2	471 acres) contiguous area
	Aquatic bed Emergent Shrub		1	Present and either comprises sm vegetation and is of moderate of significant part but is of low qua	all part of wetland's quality, or comprises a
	Forest Mudflats Open water	- 1	2	Present and either comprises sig vegetation and is of moderate of part and is of high quality	nificant part of wetland's
	6b. horizontal (plan view) Inter	spersion.	3	Present and comprises significant vegetation and is of high quality	
	Select only one. High (5)	N	arrativo D	escription of Vegetation Quality	
	Moderately high(4)		low	Low spp diversity and/or predomi	nance of nonnative or
	Moderate (3)		1044	disturbance tolerant native spec	
	Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plant to Table 1 ORAM long form for		mod	Native spp are dominant compon although nonnative and/or distu can also be present, and specie moderately high, but generally threatened or endangered spp	ent of the vegetation, irbance tolerant native spp es diversity moderate to
y ustif	or deduct points for coverage Extensive >75% cove Moderate 25-75% cover Sparse 5-25% cover	ver (-3) (-1)	high	A predominance of native species and/or disturbance tolerant nati absent, and high spp diversity a the presence of rare, threatener	ve spp absent or virtually and often, but not always,
2 4541	Nearly absent <5% c		udflat and	Ones Water Class Ovelity	
)	Absent (1) 6d. Microtopography.	IVI	0	Open Water Class Quality Absent <0.1ha (0.247 acres)	
	Score all present using 0 to 3 s	cale.	1	Low 0.1 to <1ha (0.247 to 2.47 acres)	eres)
	Vegetated hummucks		2	Moderate 1 to <4ha (2.47 to 9.88	
	Coarse woody debris Standing dead >25cn	>15cm (6in)	3	High 4ha (9.88 acres) or more	
	Amphibian breeding	oools Mi	crotopog	raphy Cover Scale	
			0	Absent	
			1	Present very small amounts or if r of marginal quality	
			2	Present in moderate amounts, bu quality or in small amounts of hi	ghest quality
1			3	Present in moderate or greater an and of highest quality	nounts

End of Quantitative Rating. Complete Categorization Worksheets.

Wetland 1

ORAM Summary Worksheet

		circle answer or insert score	Result
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES (NO)	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES (NO)	If yes, Category 3.
	Question 7. Fens	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	0	Manual S
, and the second	Metric 2. Buffers and surrounding land use	1	
	Metric 3. Hydrology	7	
	Metric 4. Habitat	3	
	Metric 5. Special Wetland Communities	G	
	Metric 6. Plant communities, interspersion, microtopography	-5	
	TOTAL SCORE	6	Category based on score breakpoints

Complete Wetland Categorization Worksheet.

wetland 1

Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO.	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category 3 status	NO)	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	YES Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.

	Fin	Final Category	
Choose one	Category 1	Category 2	Category 3

End of Ohio Rapid Assessment Method for Wetlands.

	Ohio Rapid Assessment Metho 10 Page Form for Wetland Cat	
Version 5.0	Background Information Scoring Boundary Worksheet Narrative Rating Field Form Quantitative Rating ORAM Summary Worksheet Wetland Categorization Worksheet	Ohio EPA, Division of Surface Water Final: February 1, 2001

Instructions

The investigator is *STRONGLY URGED* to read the Manual for Using the Ohio Rapid Assessment Method for Wetlands for further elaboration and discussion of the questions below prior to using the rating forms.

The Narrative Rating is designed to categorize a wetland or to provide alerts to the Rater based on the presence or possible presence of threatened or endangered species. The presence or proximity of such species is often an indicator of the quality and lack of disturbance of the wetland being evaluated. In addition, it is designed to categorize certain wetlands as very low quality (Category 1) or very high quality (Category 3) regardless of the wetland's score on the Quantitative Rating. In addition, the Narrative Rating also alerts the investigator that a particular wetland *may* be a Category 3 wetland, again, regardless of the wetland's score on the Quantitative Rating.

It is *VERY IMPORTANT* to properly and thoroughly answer each of the questions in the ORAM in order to properly categorize a wetland. To *properly* answer all the questions, the boundaries of the wetland being assessed must be correctly identified. Refer to Scoring Boundary worksheet and the User's Manual for a discussion of how to determine the "scoring boundaries." In some instances, the scoring boundaries may differ from the "jurisdictional boundaries."

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories. The most recent version of this document is posted on Ohio EPA's Division of Surface Water web page at: http://www.epa.ohio.gov/dsw/wetlands/WetlandEcologySection.aspx

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in

Case No(s). 21-0525-EL-BLN

Summary: Notice Letter of Notification Application for the North Newark-Sharp Road 138 kV Transmission Line Rebuild Project 401-500 electronically filed by Tanner Wolffram on behalf of AEP Ohio Transmission Company, Inc.