



Photo Location 15. View of Wetland 3. Photograph taken facing south.



Photo Location 15. View of Wetland 3. Photo taken facing north.





Photo Location 16. View of Stream 11. Photo taken facing upstream/west.



Photo Location 16. View of Stream 11. Photograph taken facing downstream/east.





Photo Location 17. View of Stream 12 (Clear Fork Little Muskingum River). Photograph taken facing upstream/northeast.



Photo Location 17. View of Stream 12 (Clear Fork Little Muskingum River). Photograph taken facing upstream/southwest.





Photo Location 18. View of Wetland 4. Photograph taken facing northwest.



Photo Location 18. View of Wetland 4. Photograph taken facing north.





Photo Location 19. View of Wetland 5. Photograph taken facing southeast.



Photo Location 19. View of Wetland 5. Photograph taken facing northwest.





Photo Location 20. View of Wetland 6. Photograph taken facing north.



Photo Location 20. View of Wetland 6. Photograph taken facing south.





Photo Location 21. View of Stream 13. Photograph taken facing upstream/south.



Photo Location 21. View of Stream 13. Photograph taken facing downstream/north.





Photo Location 22. View of Stream 14 (Death Run). Photograph taken facing upstream/north.



Photo Location 22. View of Stream 14 (Death Run). Photograph taken facing downstream/south.





Photo Location 23. Representative view of Stream 15 (man-made ditch). Photograph taken facing west looking upstream.



Photo Location 23. Representative view of Stream 15 (man-made ditch).

Photograph taken facing east looking downstream.

### **Habitat Photographs**







Photo Location 1. Representative view of pasture habitat. Photograph taken facing northwest.



Photo Location 2. Representative view of pasture habitat and bare dirt/active pipeline construction area. Photograph taken facing south.





Photo Location 3. Representative view of mixed early successional/second growth deciduous forest habitat. Photograph taken facing southeast.



Photo Location 4. Representative view of old field habitat. Photograph taken facing south.





Photo Location 5. Representative view of early successional riparian forest habitat.

Photograph taken facing southeast.



Photo Location 6. Representative view of hayfield habitat. Photograph taken facing southeast.





Photo Location 7. Representative view of hayfield habitat (foreground) and industrial habitat (background). Photograph taken facing north.



Photo Location 8. Representative view of mixed early successional/second growth deciduous riparian forest habitat. Photograph taken facing southeast.





Photo Location 9. Representative view of cemetery habitat. Photograph taken facing north.

SUMMERFIELD-BERNE 138 KV TRANSMISSION LINE REBUILD PROJECT, MONROE AND NOBLE COUNTIES, OHIO

### **Appendix D** Data Forms

D.1 WETLAND DETERMINATION DATA FORMS





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

Project/Site:		ld-Berne 138 kV Lii			ct		Stantec Project #:	193704906		Date: County:	06/15/17		
Applicant:											Noble		
	nvestigator #1: Nathan Noland Investigator #2: Aaron Kwolek State: Ohio												
Soil Unit: LuF; Lowell-Gilpin silt loams, 35-70% slopes NWI/WWI Classification: n/a Wetland ID: Wetland 1													
Landform: Depression Local Relief: Concave Sample Point: SP 1													
Slope (%): 1% Latitude: 39.8078 Longitude: -81.327408 Datum: NAD83 Community ID: PEM													
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)													
Are Vegetation□, Soil□, or Hydrology□ significantly disturbed?  Are normal circumstances present?  Township:  Description□, Soil□, or Hydrology□ significantly disturbed?										D:			
Are Vegetation , Soil , or Hydrology naturally problematic?													
SUMMARY OF FINDINGS Hydrophytic Vegetation Present?										E Ves E Ne			
	Hydrophytic Vegetation Present? ☑ Yes ☐ No Wetland Hydrology Present? ☑ Yes ☐ No									Alithia A \Alatla	☑ Yes □ No		
Wetland Hydrology Present? ☑ Yes □ No     Is This Sampling Point Within A Wetland? ☑ Yes ■ No Remarks:													
Remarks.													
LIVEROLOGY													
HYDROLOGY													
Wetland Hyd	rology Indic	ators (Check here	if indicate	ors are n	ot preser	nt□ ):			Secondary:				
Primary		14/		_	DO 14/	0				B6 - Surface So			
<u> </u>	A1 - Surface A2 - High Wa				B9 - Wate B13 - Aqu						egetated Concave Surface		
<b>√</b>					B14 - Tru								
	B1 - Water M				C1 - Hydr								
	B2 - Sedimer						spheres on Living Roots						
	B3 - Drift Dep						educed Iron				Visible on Aerial Imagery		
	B4 - Algal Ma						duction in Tilled Soils			D1 - Stunted or			
	B5 - Iron Dep				C7 - Thin					D2 - Geomorph			
	B7 - Inundati	on Visible on Aerial Im-	agery	П	Other (Ex	piain in Re	emarks)			D3 - Shallow Ac			
	<ul> <li>□ D4 - Microtopographic Relief</li> <li>☑ D5 - FAC-Neutral Test</li> </ul>												
Field Observa	tions:												
Surface Water		☑ Yes □ No	Donth:	0-1	(in.)								
Water Table P			Depth:		. ,			Wetland Hy	drology Pr	esent?	Yes □ No		
		☑ Yes □ No		surface	. ,								
Saturation Present?   Yes  No Depth: surface (in.)													
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Recor	ded Data (str	eam gauge, monitori	ing well, a	aerial pho	tos, previ	ous inspe	ections), if available:		N/A				
Describe Record Remarks:	ded Data (str	eam gauge, monitori	ing well, a	aerial pho	tos, previ	ous inspe	ections), if available:		N/A				
Remarks:	ded Data (str	eam gauge, monitori	ing well, a	aerial pho	itos, previ	ous inspe	ections), if available:		N/A				
Remarks:					·								
Remarks:  SOILS  Map Unit Name	e:	LuF; Lowell-Gilpin	silt loams	s, 35-709	% slopes	-		ainage Class:		y well-drained			
Remarks:  SOILS  Map Unit Name Taxonomy (Su	e: bgroup):	LuF; Lowell-Gilpin mesic Aquic Haplu	silt loam:	s, 35-709	% slopes	dults	Series Dra		moderatel				
Remarks:  SOILS Map Unit Nam Taxonomy (Su Profile Descri	e: bgroup): ption (Describe to	LuF; Lowell-Gilpin mesic Aquic Haplu	silt loam:	s, 35-709 lesic Typ	% slopes	dults	Series Dra	Covered/Coated Sand Gra	moderatel				
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Remarks:  SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 16 Soil Field Ir bedon bedo	LuF; Lowell-Gilpin mesic Aquic Haplu the depth needed to document the in Horizon	silt loam: dalfs - m dicator or confirm  Color  10YR  N    ere if ind \$5 - San \$6 - Strip \$7 - Darl \$8 - Poly \$9 - Thir \$7 - Derl \$7 - Derl \$7 - Derl	s, 35-70° esic Typ Matrix (Moist) 5/1 2.5/ icators a dy Redox ped Matrix k Surface value Belet Dark Sur my Gleyec leted Mati ox Dark Seleted Dark ox Depres	% slopes oic Haplue (indicators.) (Ty % 80 20 re not pression Dark Strate (MLRA the Matrix rx sturface (Surface ssions	dults per C=Concentri	Series Dra  Series Dra  stion, D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)	Covered/Coated Sand Gra Mottles  %	moderatel  Type	Location  Locati	(e.g. clay, sand, loam) silt loam silt loam		
Remarks:  SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 16 Soil Field Ir bedon bedo	LuF; Lowell-Gilpin mesic Aquic Haplu the depth needed to document the in Horizon	silt loam: dalfs - m dicator or confirm  Color  10YR  N    ere if ind \$5 - San \$6 - Strip \$7 - Darl \$8 - Poly \$9 - Thir \$7 - Derl \$7 - Derl \$7 - Derl	s, 35-70° esic Typ Matrix (Moist) 5/1 2.5/ icators a dy Redox ped Matrix k Surface value Belet Dark Sur my Gleyec leted Mati ox Dark Seleted Dark ox Depres	% slopes oic Haplue (indicators.) (Ty % 80 20 re not pression Dark Strate (MLRA the Matrix rx sturface (Surface ssions	dults per C=Concentri	Series Dra  Series Dra  stion, D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)	Covered/Coated Sand Gra Mottles  %	moderatel  Type	Location  Locati	(e.g. clay, sand, loam) silt loam silt loam		
Remarks:  SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 16 Soil Field Ir bedon bedo	LuF; Lowell-Gilpin mesic Aquic Haplu the depth needed to document the in Horizon	silt loam: dalfs - m dicator or confirm  Color  10YR  N    ere if ind \$5 - San \$6 - Strip \$7 - Darl \$8 - Poly \$9 - Thir \$7 - Derl \$7 - Derl \$7 - Derl	s, 35-70° esic Typ Matrix (Moist) 5/1 2.5/ icators a dy Redox ped Matrix k Surface value Belet Dark Sur my Gleyec leted Mati ox Dark Seleted Dark ox Depres	% slopes oic Haplue (indicators.) (Ty % 80 20 re not pression Dark Strate (MLRA the Matrix rx sturface (Surface ssions	dults per C=Concentri	Series Dra  Series Dra  stion, D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)	Covered/Coated Sand Gra Mottles  %	moderatel  Type	Location  Locati	(e.g. clay, sand, loam) silt loam silt loam		



#### WETLAND DETERMINATION DATA FORM

Eastern Mountains and Piedmont Region

Wetland ID: Wetland 1

Project/Site:	Summerfield-Berne 138 kV Line Rebuild	d Project	t		Wetland ID: Wetland 1 Sample Point: SP 1
					·
<b>VEGETATION</b>	(Species identified in all uppercase are non-na	tive specie	es.)		
Tree Stratum (Pl	ot size: 30 ft radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	Salix nigra	10	Υ	OBL	
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)
					Total Number of Dominant Species Across All Strata(D)
5.					TE 00( (A/D)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 40 x 1 = 40
	Total Cover =	10			FACW spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$
					FAC spp. $0   x 3 = 0$
Sanling/Shrub Str	ratum (Plot size: 15 ft radius)				FACU spp. 30 x 4 = 120
1.					UPL spp. 3 X 5 = 15
2.					οι L 3pp
3.					T-1-1 400 (A) 007 (D)
					Total <u>129</u> (A) <u>287</u> (B)
4.					
5.					Prevalence Index = B/A = 2.225
6.					
7.					
8.				-	Hydrophytic Vegetation Indicators:
9.					☐ Yes ☐ No Rapid Test for Hydrophytic Vegetation
10.					☑ Yes □ No Dominance Test is > 50%
	Total Cover =	5			☑ Yes □ No Prevalence Index is ≤ 3.0 *
	10tai 0010i =	Ŭ			
					□ Yes □ No Morphological Adaptations (Explain) *
	ot size: 5 ft radius)	45		E4 0)4/	☐ Yes ☐ No Problem Hydrophytic Vegetation (Explain) *
1.	Cinna arundinacea	45	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
2.	Nasturtium officinale	30	Υ	OBL	present, unless disturbed or problematic.
3.	Poa pratensis	25	Υ	FACU	
4.	Impatiens capensis	5	Ν	FACW	Definitions of Vegetation Strata:
5.	Juncus effusus	5	N	FACW	
6	Eupatorium perfoliatum	3	N	UPL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at
7.	Lythrum salicaria	1	N	FACW	breast height (DBH), regardless of height.
8.	Schedonorus arundinaceus	5	N	FACU	
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 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.				-	and woody plants less than 3.26 ft. tail.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	119			,
	Total Cover =	113			
147 1 17 01	(D)				
	tum (Plot size: 30 ft radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present ✓ Yes □ No
4.					
5.					
-	Total Cover =	0			
Remarks:	Total Cover =				
ixemaiks.					
Additional Re	marks:				
Ī					



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

Are Vegetation	AEP Ohio  : Nathan Not LuF; Lowel Side slope 1% 'drologic conc  - Soil -	Latitude Latitude ditions on the site ty or Hydrology □ sig or Hydrology □ na sent?	pany, Inc 35-70% s : 39.808 ypical for gnificantly	Investice Investice Investice Investice Investice Investice Investication Investicatio	gator #2: al Relief: ongitude: e of year? ed? ic?	Linear -81.327 (If no, expl	NWI/WWI Classification 519	Datum:  ☐ Yes ☐  ances present? ☐ No  Hydric Soils	Present?	Date: County: State: Wetland ID: Sample Point: Community ID: Section: Township: Range:	SP UPLAND  Dir:	
Primar	Wetland Hydrology Indicators (Check here if indicators are not present ☑):       Secondary:         Primary:       □ A1 - Surface Water       □ B9 - Water-Stained Leaves       □ B8 - Sparsely Vegetated Concave Surface         □ A2 - High Water Table       □ B13 - Aquatic Fauna       □ B10 - Drainage Patterns         □ A3 - Saturation       □ B14 - True Aquatic Plants       □ B16 - Moss Trim Lines         □ B1 - Water Marks       □ C1 - Hydrogen Sulfide Odor       □ C2 - Dry Season Water Table         □ B2 - Sediment Deposits       □ C3 - Oxidized Rhizospheres on Living Roots       □ C8 - Crayfish Burrows         □ B3 - Drift Deposits       □ C4 - Presence of Reduced Iron       □ C9 - Saturation Visible on Aerial Image         □ B4 - Algal Mat or Crust       □ C6 - Recent Iron Reduction in Tilled Soils       □ D1 - Stunted or Stressed Plants         □ B5 - Iron Deposits       □ C7 - Thin Muck Surface       □ D2 - Geomorphic Position											
Surface Water Present?							Yes ☑ No					
Remarks:  SOILS  Map Unit Nam  Taxonomy (Su	bgroup):	LuF; Lowell-Gilpin mesic Aquic Haplu	ıdalfs - m	nesic Typ	oic Hapluc			rainage Class:				
	•	the depth needed to document the in	ndicator or confir			pe: C=Concentr	ation, D=Depletion, RM=Reduced Matrix, CS		nins; Location: PL=Po			
Тор	Bottom			Matrix				Mottles			Texture	
Depth	Depth	Horizon	Color	(Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loam)	
0	2	1	10YR	4/4	100							
2	6	2	10YR	5/6	100							
NRCS Hydric Soil Field Indicators (check here if indicators are not present ☑):  □ A1- Histosol □ S5- Sandy Redox □ F12 - Iron-Manganese Masses (LRR N, MLRA 136) □ A10 - 2cm Muck (MLRA 147) □ A2 - Histic Epipedon □ S6 - Stripped Matrix □ F13 - Umbric Surface (MLRA 122, 136) □ A16 - Coast Prairie Redox (MLRA 147, 147, 148) □ F19 - Piedmont Floodplain Soils (MLRA 147, 148) □ TF12 - Very Shallow Dark Surface (MLRA 147, 148) □ TF12 - Very Shallow Dark Surface (MLRA 147, 148) □ TF12 - Very Shallow Dark Surface (MLRA 147, 148) □ TF12 - Very Shallow Dark Surface (MLRA 147, 148) □ TF12 - Very Shallow Dark Surface □ A10 - 2 cm Muck (LRR N) □ F2 - Loamy Gleyed Matrix □ A11 - Depleted Below Dark Surface □ F3 - Depleted Matrix □ F3 - Depleted Matrix □ F3 - Depleted Dark Surface □ F4 - Redox Dark Surface □ F5 - Redox Dark Surface □ F5 - Redox Dark Surface □ F6 - Redox Dark Surface □ F7 - Depleted Dark Surface □ S4 - Sandy Gleyed Matrix □ F8 - Redox Depressions □ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or put to the present of the									luck (MLRA 147) rairie Redox (MLRA 147, 148) t Floodplain Soils (MLRA 136, 147) Shallow Dark Surface in in Remarks)			



#### WETLAND DETERMINATION DATA FORM

**Eastern Mountains and Piedmont Region** 

Wetland ID: Wetland 1

Project/Site: Summerfield-Berne 138 kV Line Rebuild Project Sample Point: SP **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft radius) Ind.Status **Dominance Test Worksheet** Species Name % Cover Dominant Number of Dominant Species that are OBL, FACW, or FAC: 0 (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: 0.0% (A/B) 7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 = Total Cover = 0 x 2 = FACW spp. 0 x 3 = FAC spp. 0 0 Sapling/Shrub Stratum (Plot size: 15 ft radius) FACU spp. x 4 = Rubus allegheniensis 5 **FACU** x 5 = UPL spp. 15 2 3. Total 120 (A) 495 (B) 4. 5. Prevalence Index = B/A = 4.125 6. 7 8. **Hydrophytic Vegetation Indicators:** 9. ✓ No Rapid Test for Hydrophytic Vegetation ☐ Yes 10. Yes ✓ No Dominance Test is > 50% Total Cover = 5 Yes Prevalence Index is ≤ 3.0 \* ☑ No □ Yes ✓ No Morphological Adaptations (Explain) \* □ Yes ✓ No Herb Stratum (Plot size: 5 ft radius) Problem Hydrophytic Vegetation (Explain) \* Ν FACU Erigeron annuus 10 \* Indicators of hydric soil and wetland hydrology must be 2. Leucanthemum vulgare 5 Ν UPL present, unless disturbed or problematic. Phleum pratense 5 **FACU** 3. N 4. Schedonorus arundinaceus FACU **Definitions of Vegetation Strata:** 5. Solidago canadensis 45 **FACU** 6 Vernonia gigantea 10 Ν UPL Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. **FACU** Dactylis glomerata 5 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. --15. Woody Vines - All woody vines greater than 3.28 ft. in height. Total Cover = 115 Woody Vine Stratum (Plot size: 30 ft radius) 2. Hydrophytic Vegetation Present□ Yes ☑ No 3 4. 5. Total Cover = 0 Remarks: **Additional Remarks:** 

This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

1/5/2018 10:12:11 AM

in

Case No(s). 17-2505-EL-BLN

Summary: Letter of Notification electronically filed by Ms. Christen M. Blend on behalf of AEP Ohio Transmission Power Company, Inc.