

























APPENDIX A

U.S. ARMY CORPS OF ENGINEERS WETLAND & UPLAND FORMS



WETLAND DETERMINATION	DATA FORM - Northcentral and Northeast Region
Project/Site: Black River-Lorain 138kV Tline	City/County: Lorain/Lorain Sampling Date: 22-Apr-16
Applicant/Owner: FirstEnergy	State: OH Sampling Point: w-mdt4/22/2016-01
Investigator(s): M.Thomayer, B.Otto	Section, Township, Range: S. T. 7N R. 17W
Landform (hillslope, terrace, etc.); Flat	Local relief (concave, convex, none); concave Slope; 0 0 % / 0 0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R Lat.:	41.440243 Long.: -82.152160 Datum: NAD 83
Soil Map Unit Name: Ama	NWI classification: NA
Are climatic/hydrologic conditions on the site typical for this time of y	year? Yes • No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	ntly disturbed? Are "Normal Circumstances" present? Yes • No O
Are Vegetation , Soil , or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
Summary of Findings - Attach site map showing	sampling point locations, transects, important features, etc
	,,,,,,,,,,,,
	Is the Sampled Area
Wetland Underland Present? Yes No	within a Wetland? Yes \bigcirc NO \bigcirc
Wetland Hydrology Present?	
Remarks: (Explain alternative procedures nere or in a separate report DSS/DEM (50/50) wetland in DOW	ort.)
PSS/PEM (50/50) wetiand in ROW	
Hydrology	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Lea	eaves (B9) Drainage Patterns (B10)
High Water Table (A2)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B1	15) Dry Season Water Table (C2)
U Water Marks (B1)	: Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2)	heres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Jced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	uction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5)	e (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in I	Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	► FAC-neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	<u> </u>
Water Table Present? Yes No Depth (inches):	
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	Wetland Hydrology Present? Yes \bigcirc No \bigcirc
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	
pockets of inundation	

VEGETATION - Use scientific names of plants

Sampling Point:	w-mdt4/22/2016-01

(Plot size:	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (FIOUSIZE)	% Cover		Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:(A)
2	0			Total Number of Dominant
3	0			Species Across All Strata:(B)
4				Percent of dominant Species
	0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7	0			Prevalence Index worksheet:
· ·	0 =	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species $0 \times 1 = 0$
1 <u>Cornus alba</u>	10	\checkmark	FACW	FACW species $120 \times 2 = 240$
2. Cornus amomum	10	\checkmark	FACW	FAC species $0 \times 3 = 0$
3	0			FACIL species $0 \times 4 = 0$
4	0			$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
5	0			$\begin{array}{c} \text{column Totals:} 120 \textbf{(A)} \qquad 240 \textbf{(B)} \end{array}$
6	0			
/	<u> </u>	Takal C		Prevalence Index = $B/A = 2.000$
Herb Stratum_ (Plot size:)	=	= Total Cover		Hydrophytic Vegetation Indicators:
1 Phalaris arundinacea	90	\checkmark	FACW	✓ Rapid Test for Hydrophytic Vegetation
2 Dichanthelium clandestinum	10		FACW	✓ Dominance Test is > 50%
3	0			✓ Prevalence Index is ≤3.0 ¹
4.	0			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8	0			be present, unless disturbed or problematic.
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in, DBH and
Weady Vina Stratum (Plot size)	100 =	Total Cover		greater than 3.28 ft (1m) tall.
	0			Herb - All herbaceous (non-woody) plants regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Weady vine All weady vince greater than 2.20 ft in
4	0			height.
	0 =	= Total Cover		
				Hydrophytic Vegetation
				Present? Yes • No
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-mdt4/22/2016-01

inchoc)	Ma	trix	Red	ox Features			
nches)	Color (moi	<u>st) %</u>	Color (moist)	<u>%</u> <u>Type</u> ¹	Loc ²	Texture	Remarks
-12	10YR 3	3/1 100				Silty Clay Loam	
e: C=Conc	entration. D=De	pletion. RM=Re	duced Matrix, CS=Covered	d or Coated Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=M	atrix
lric Soil I	ndicators:					Indicators for Proble	ematic Hydric Soils : ³
Histosol (A	.1)		Polyvalue Below	Surface (S8) (LRR R	,	2 cm Muck (A10) (IRRKI MIRA 149B)
Histic Epip	edon (A2)		MLRA 149B)				
Black Histi	c (A3)		L Thin Dark Surfa	ce (S9) (LRR R, MLR	A 149B)		N (TIU) (LINN N, L, N)
Hydrogen	Sulfide (A4)		Loamy Mucky M	ineral (F1) LRR K, L)			(IDD ((153) (LRK K, L, R)
Stratified I	avers (A5)		Loamy Gleyed M	latrix (F2)		Dark Surface (S7)	(LRR K, L, M)
	elow Dark Surfa	ace (A11)	Depleted Matrix	(F3)		Polyvalue Below S	urface (S8) (LRR K, L)
Thick Dark			Redox Dark Sur	face (F6)		Thin Dark Surface	(S9) (LRR K, L)
			Depleted Dark S	urface (F7)		Iron-Manganese M	asses (F12) (LRR K, L, R)
Sandy Muo	ck Mineral (S1)			ons (F8)		Piedmont Floodpla	in Soils (F19) (MLRA 149B)
Sandy Gle	ed Matrix (S4)					Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Rec	ox (S5)					Red Parent Materia	al (F21)
Stripped M	latrix (S6)					Verv Shallow Dark	Surface (TF12)
Dark Surfa	ce (S7) (LRR R,	MLRA 149B)				Other (Explain in R	emarks)
dicators of	hydronhytic yea	etation and wet	and hydrology must be pr	esent unless disturb	ed or proble	ematic	
strictive La	yer (if observe	ed):					
Туре:						Ukuduja Caji Russant2	
Depth (inch	es):					Hydric Soll Present?	Yes 🔍 No 🔾
marks:						L	

WETLAND DETERN	MINATION DATA FORM - Northcentral	and Northeast Region
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Investigator(s): M.Thomayer, B.Otto	Section, Township, Range: S.	T. 7N R. 17W
Landform (hillslope, terrace, etc.); Flat	Local relief (concave, convex, non	e): convex Slope: 0 0 % / 0 0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R	Lat.: 41.440123 Long.:	-82.151941 Datum: NAD 83
Soil Map Unit Name: Ama		NWI classification: NA
Are climatic/hydrologic conditions on the site typical for	r this time of year? Fes \odot NO \bigcirc (I	f no, explain in Remarks.)
Are Vegetation, Soil 🔽 , or Hydrology	significantly disturbed? Are "Normal Ci	rcumstances" present? Yes 🔍 NO 🔾
Are Vegetation , Soil , or Hydrology	naturally problematic? (If needed, exp	plain any answers in Remarks.)
Summary of Findings - Attach site map	showing sampling point locations,	transects, important features, etc
Hydrophytic Vegetation Present? Yes \bigcirc No \odot		
Hydric Soil Present? Yes O No 🖲	Is the Sampled Area	Yes \bigcirc No \bigcirc
Wetland Hydrology Present? Yes O No •		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a Surface Water (A1) Wa High Water Table (A2) Aq	Il that apply)	econdary Indicators (minimum of 2 required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Saturation (A3)	arl Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)	/drogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	kidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	esence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	ecent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
L Iron Deposits (B5)	nin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B/) Ot Ot	her (Explain in Remarks)	Microtopographic Relief (D4)
	L	_ FAC-neutral lest (D5)
Field Observations: Surface Water Present? Yes O No • D	Depth (inches):	
Water Table Present? Yes O No O	Depth (inches):	
Saturation Present? Yes No •	Wetland Hydrole	ogy Present? Yes 🔾 No 🖲
(includes capillary fringe)	l porial photos, provious inspections), if availab	
Describe Recorded Data (stream gauge, monitoring we	n, aenai priotos, previous irispections), ir availab	
Remarks:		

VEGETATION - Use scientific names of plants

Sampling Point: upl-mdt4/22/2016-1

Tree Stratum (Plot statu) 9 Core greess Statu Number of Dominant Species 2 (A) 2 0 0 0 0 0 1 Free Clip FACN, or FAC 2 (A) 3 0 0 0 0 0 0 1 Free Clip FACN, or FAC 2 (A) 4 0 0 0 0 0 1 Free Clip FACN, or FAC 2 (A) 5 0 0 0 0 0 1 Free Clip FACN, or FAC 2 (A) 7 0 0 0 0 1 Total % Cover of Multiply br; O 0 1 Free Clip FACN, or FAC 2 0 0 1 Free Clip FACN, or FAC 0 0 1 1 0 1 1 0 1 1 0 1 0 1 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 <	(Dist size)	Absolute	Dominant	Indicator	Dominance Test worksheet:
1 0	Tree Stratum (Plot size:)	% Cover	species:	Status	Number of Dominant Species
2 0	1	0			That are OBL, FACW, or FAC:(A)
3.	2	0			Total Number of Dominant
4 0	3	0			Species Across All Strata:5(B)
5	4	0			Deveent of deminant Creation
6. 0 0 Prevalence Index worksheet: 7. 0 0 FACU Seconds worksheet: 1. 0. 0 FACU Seconds worksheet: 2. 0. 0 FACU Seconds worksheet: 1. 0. 0 FACU Seconds file 0. X 2 = 0. 2. Accuspter: 0. X 2 = 0. FACU Seconds file 0. X 2 = 0. 2. Accuspter: 0 0 FACU Seconds file 0. X 2 = 0. 2. Accuspter: 0 0 FACU Seconds file 0. X 2 = 0. 7. 0 0 0 FACU Seconds file Seco	5	0			That Are OBL. FACW, or FAC:40.0% (A/B)
7. 0	6	0			
Saping (Shub Stratum (Pot size:	7				Prevalence Index worksheet:
1. Beesprus unbekto 10 UPL PACU spectes 0 x 1 = 0 2. Accula flow 10 UPL FACU spectes 0 x 1 = 0 4. 0 PACU spectes 30 x 1 = 120 5. 0 UPL spectes 30 x 1 = 120 6. 0 PACU spectes 30 x 1 = 120 7. 0 Problematic flows 100 (A) 3500 7. 0 Problematic flows 100 (A) 3500 8. 0 20 FAC Spectes 30 x 1 = 0 1. Asse multifier 0 20 FAC FAC Problematic flows 500 1. Asse multifier 0 FAC FAC FAC FAC FAC 8. 0 FAC FAC FAC FAC FAC FAC 1. Asse multifier 0 I FAC FAC FAC FAC FAC 2. As spectes 0 I FAC FAC FAC FAC FAC 2. As spectes <th>Sapling/Shrub Stratum (Plot size:)</th> <th> =</th> <th>Total Cover</th> <th></th> <th>Total % Cover of: Multiply by:</th>	Sapling/Shrub Stratum (Plot size:)	=	Total Cover		Total % Cover of: Multiply by:
2. Aescular flowe 10 V FACU pacties 0 2 2 0 3. 0 0 0 FACU pacties 0 x 4 = 120. 4. 0 0 0 0 0 FACU species 30 x 4 = 120. 5. 0	1 Elaeagnus umbellata	10		UPL	OBL species $0 \times 1 = 0$
3 0	2. Aesculus flava	10	\checkmark	FACU	FACW species $0 \times 2 = 0$
4 0	3.	0			FAC species $60 \times 3 = 180$
5	4.	0			FACU species $30 \times 4 = 120$
6. 0	5.	0			UPL species 10 x 5 = 50
7. 0 0 Prevalence Index = B/A =3.500. Herb Stratum (Plot size:) 20 FACU Rapid Test for Hydrophytic Vegetation Indicators:Rapid Test for Hydrophytic Vegetation = (Provide supporting data in Remarks or on a separate sheet) 2. Are sg. 20 FACU Dominance Test is > 50% 3. Solidayo sp. 40 FAC Dominance Test is > 50% 5. 0 FACU Prevalence Index is 3.3.0.1 6. 0 FAC Prevalence Index is 3.3.0.1 6. 0 FACU Provide supporting data in Remarks or on a separate sheet) 7. 0 Breast height Class of Hydric soil and wetland hydrology must be present, unless disturbed or problematic. 8. 0 Breast height (DBH), regardless of height. Tree - Woody plants less than 3.1n. DBH and greater than 3.28 ft (Im) tall. 12. 0 Breast height (DBH), regardless of sight. Sapiling/shrub - Woody plants less than 3.28 ft in height. 14. 0 Breast Bre	6.	0			Column Totals: <u>100</u> (A) <u>350</u> (B)
Herb Stratum (Plot size:) 20 = Total Cover Hydrophytic Vegetation Indicators: 1. Acta multifica 20 V FACU Dominance Test is > 50% 2. Assidgap sp. 20 V FACU Dominance Test is > 50% 3. Solidgap sp. 40 V FACU Dominance Test is > 50% 5. 0 V FACU Dominance Test is > 50% 6. 0 V FACU Dominance Test is > 50% 7. 0 V FACU Dominance Test is > 50% 9. 0 V FACU Problematic Hydrophytic Vegetation 1 9. 0 V FACU Problematic Hydrophytic Vegetation 1 10. 0 V FACU Problematic Hydrophytic Vegetation 1 11. 0 V FacU Problematic Hydrophytic Vegetation 1 12. 0 V FacU Problematic Hydrophytic Vegetation 1 12. 0 V FacU Problematic Hydrophytic Vegetation 1 12. 0 V FacU Problematic Hydrophytic Vegetation 1 13. </th <th>7.</th> <th>0</th> <th></th> <th></th> <th>Prevalence Index = $B/A = 3.500$</th>	7.	0			Prevalence Index = $B/A = 3.500$
Herb Stratum (Prot size:		20 =	Total Cover		Hydrophytic Vegetation Indicators:
1. Acta multifore 20 V FACU 2. Pais gp. 20 V FAC 3. Solidago sp. 40 V FAC 4. 0 FAC 5. 0 C 6. 0 C 7. 0 C 8. 0 C 9. 0 C 9. 0 C 1. 0 C 12. 0 C 13. 0 C 14. 0 C 15. 0 C 16. 0 C 17. 0 C 10. 0 C 11. 0 C 12. 0 C 13. 0 C 14. 0 C 15. 0 C 16. 0 C 17. 0 C 18. 0 19. C 10. 0 11. 0 12. 0 13. 0 14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 10. 0 11. 0 12. 0 13. 0 14. 0 15. 0 16. 0 17. 0 18. 0 19. 0 19. 0 19.	Herb Stratum (Plot size:)				Rapid Test for Hydrophytic Vegetation
2. <i>Pee sp.</i> 3. <i>Solidgo sp.</i> 4	1. Rosa multiflora	20	\checkmark	FACU	$\square \text{ Dominance Test is > 50\%}$
3. Solidago sp. 40 ✓ FAC Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 4. 0 0 Horphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 6. 0 0 Problematic Hydrophytic Vegetation ¹ (Explain) 7. 0 0 1 Indicators of hydric soil and vetland hydrology must be present, unless disturbed or problematic 8. 0 0 1 Indicators of hydric soil and vetland hydrology must be present, unless disturbed or problematic 9. 0 0 1 Indicators of hydric soil and vetland hydrology must be present, unless disturbed or problematic 10. 0 0 Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 11. 0 0 Sapling/strub - Woody plants less than 3.n. DBH and greater than 3.28 ft tail. 2. 0 0 Sapling/strub - Woody plants, regardless of size, and woody plants less than 3.28 ft tail. 3. 0 0 Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft tail. 4. 0 = Total Cover Hydrophytic Vegetation Present? Yes No ●	2. Poa sp.	20		FAC	$\square \text{ Prevalence Index is } <3.0^{-1}$
4. 0 data in Remarks or on a separate sheet) data in Remarks or on a separate sheet) 5. 0 0 Problematic Hydrophytic Vegetation 1 (Explain) 7. 0 0 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 8. 0 0 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 9. 0 0 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 9. 0 0 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 10. 0 0 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 11. 0 0 1 Separate sheight (DBH), regardless of height. 12. 0 1 Separate sheight (DBH), regardless of height. Separate sheight (DBH), regardless of size, and woody plants less than 3.28 ft tall. 3. 0 0 1 Herb - All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height. 4. 0 = Total Cover Hydrophytic Yege No •	З. <i>Solidago sp.</i>	40		FAC	Morphological Adaptations ¹ (Provide supporting
5. 0 0 Problematic Hydrophytic Vegetation ¹ (Explain) 6. 0 0 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 9. 0 0 0 Definitions of Vegetation Strata: 10. 0 0 0 Definitions of Vegetation Strata: 11. 0 0 0 Sapling/shrub - Woody plants, is sin, 7.6 cm) or more in diameter at breast height (DBH), regardless of height. 12. 0 0 0 Sapling/shrub - Woody plants, ises than 3 in. DBH and greater than 3.28 ft (1m) tall. 14. 0 0 0 Hoto - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 3. 0 0 Hoto - All woody vines greater than 3.28 ft in height. 4. 0 = Total Cover Hydrophytic Vegetation Present? Yes O No ● Remarks: (Include photo numbers here or on a separate sheet.) poa sp 20, solidago sp 40 Present Y Yes O	4	0			data in Remarks or on a separate sheet)
6. 0 0 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 9. 0	5				Problematic Hydrophytic Vegetation ¹ (Explain)
7.	6				
8. 0 9. 10. 11. 12. 0 0 12. 0 13. 14. 0 15. 16. 16. 17. 18. 19. 19. 11. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 19. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 19. 10. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 11. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19. <tr< th=""><th>7</th><th></th><th></th><th></th><th>be present, unless disturbed or problematic.</th></tr<>	7				be present, unless disturbed or problematic.
9.	8				Definitions of Vegetation Strata
10. 0	9				Demitions of Vegetation Strata.
11	10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
12. 0 0 Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall 1. 0 0 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 3. 0 0 Herb - All woody vines greater than 3.28 ft tall. 4. 0 0 Herb - All woody vines greater than 3.28 ft in height. 7 0 Herb - All woody vines greater than 3.28 ft in height. No @ 8 Total Cover Hydrophytic Vegetation Present? Yes No @ Remarks: (Include photo numbers here or on a separate sheet.) poa sp 20, solidago sp 40 No @	11				at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size:) greater than 3.28 ft (1m) tall 1 greater than 3.28 ft (1m) tall 2 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 3	12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
I	Woody Vine Stratum (Plot size:)	80 =	Total Cover		greater than 3.28 ft (1m) tall
2. 0 0 size, and woody plants less than 3.28 ft tall. 3. 0 0 0 woody vines greater than 3.28 ft in height. 4. 0 0 woody vines greater than 3.28 ft in height. Yegetation Present? Yes O No O Remarks: (Include photo numbers here or on a separate sheet.) poa sp 20, solidago sp 40	1	0			Herb - All herbaceous (non-woody) plants, regardless of
3. 0	2	0			size, and woody plants less than 3.28 ft tall.
4. 0 0 = Total Cover Hydrophytic Yes O No O Remarks: (Include photo numbers here or on a separate sheet.) poa sp 20, solidago sp 40	3	0			Woody vine - All woody vines greater than 3.28 ft in
0 = Total Cover Hydrophytic Yes ○ Vegetation Present? Yes ○ No ●	4	0			height.
Hydrophytic Vegetation Present? Yes No Remarks: (Include photo numbers here or on a separate sheet.) poa sp 20, solidago sp 40 No		0 =	Total Cover		
Hydrophytic Vegetation Present? Yes No Remarks: (Include photo numbers here or on a separate sheet.) poa sp 20, solidago sp 40 No					
Hydrophytic Vegetation Present? Yes No Remarks: (Include photo numbers here or on a separate sheet.) poa sp 20, solidago sp 40					
Hydrophytic Vegetation Present? Yes No • Present? Yes No •					
Remarks: (Include photo numbers here or on a separate sheet.) poa sp 20, solidago sp 40					Hydrophytic Vegetation
Remarks: (Include photo numbers here or on a separate sheet.) poa sp 20, solidago sp 40					Present? Yes \bigcirc No \bigcirc
Remarks: (Include photo numbers here or on a separate sheet.) poa sp 20, solidago sp 40					
poa sp 20, solidago sp 40	Remarks: (Include photo numbers here or on a separate she	et.)			
	poa sp 20, solidago sp 40				

Depth	Matrix		Redox Features	_
(inches)	Color (moist)	%	<u>Color (moist)</u> <u>%</u> <u>Type</u> ¹ <u>Loc</u> ²	Texture Remarks
0-8	10YR 4/2	100		Silt Loam some gravel
		,		
	u u			
e: C=Cond	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covered or Coated Sand Grains ² Loc	ation: PL=Pore Lining. M=Matrix
lric Soil I	ndicators:			Indicators for Problematic Hydric Soils : ³
Histosol (A	A1)		Polyvalue Below Surface (S8) (LRR R,	2 cm Muck (A10) (LRR K. L. MLRA 149B)
Histic Epip	edon (A2)		MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histi	ic (A3)		Loomy Mucloy Minoral (E1) LDB (L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Gleved Matrix (E2)	Dark Surface (S7) (LRR K, L, M)
Stratified I	Layers (A5)		Depleted Matrix (F3)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted I	Below Dark Surface (A	11)	Redox Dark Surface (F6)	Thin Dark Surface (S9) (LRR K, L)
	k Sufface (A12)		Depleted Dark Surface (F7)	Iron-Manganese Masses (F12) (LRR K, L, R)
	CK Mineral (S1)		Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gle	yeu Matrix (54)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Strinned M	JUX (SS) Natrix (SG)			Red Parent Material (F21)
Dark Surfa	ace (S7) (I RR R. MI RA	(149B)		Very Shallow Dark Surface (TF12)
		· _ · · · · ·	d buduele europe be groenet unione distructered europe	
		n and wetian	a hydrology must be present, unless disturbed or prob	
	ayer (if observed):			
Denth (inch				Hydric Soil Present? Yes 🔿 No 🖲
	les):			
marks:				

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Black River-Lorain 138kV Tline	City/County:	Lorain/Lorain	Sampli	ng Date: 22-Apr-16
Applicant/Owner: FirstEnergy		State: OH	Sampling Point:	w-mdt4/22/2016-02
Investigator(s): M.Thomayer, B.Otto	Section, T	ownship, Range: S.	T. 7N	R. 17W
Landform (hillslope, terrace, etc.): Flat	Local relief (c	oncave, convex, none	: concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R	Lat.: 41.437297	Long.: -	82.148040	Datum: NAD 83
Soil Map Unit Name: Ama			NWI classification:	NA
Are climatic/hydrologic conditions on the site typical for this ti Are Vegetation , Soil , or Hydrology , sig Are Vegetation , Soil , or Hydrology , nat Summary of Findings - Attach site map shov	me of year? Ye nificantly disturbed? turally problematic? ving sampling p	s • No · (If ı Are "Normal Circ (If needed, expla oint locations, 1	io, explain in Remark umstances" present? iin any answers in Re ransects, impo	«s.) Yes ○ No ● emarks.) ortant features, etc
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo	Is th with	e Sampled Area n a Wetland? Ye	es 🖲 No	
Remarks: (Explain alternative procedures here or in a separa PEM wetland in ROW; area is disturbed and appears to form	ite report.) erly be an industrial s	te		
Hydrology				
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that ✓ Surface Water (A1) ✓ Water-State ✓ High Water Table (A2) Aquatic Factor (A3)	apply) ined Leaves (B9) auna (B13)		ondary Indicators (minir Surface Soil Cracks (B6 Drainage Patterns (B10 Moss Trim Lines (B16)	mum of 2 required)

High Water Table (A2)			Aquatic Fauna (B13)		Moss Trim Lin	es (B16)	
Saturation (A3)			Marl Deposits (B15)		Dry Season W	ater Table (C2)	
Water Marks (B1)			✓ Hydrogen Sulfide Odo	or (C1)	Crayfish Burro	ws (C8)	
Sediment Deposits (B2)			Oxidized Rhizospheres	s along Living Roots (C	C3) Saturation Visi	ble on Aerial Imagery (C9)	
Drift deposits (B3)			Presence of Reduced	Iron (C4)	Stunted or Str	essed Plants (D1)	
Algal Mat or Crust (B4)			Recent Iron Reduction	n in Tilled Soils (C6)	Geomorphic P	osition (D2)	
Iron Deposits (B5)			Thin Muck Surface (C	7)	Shallow Aquita	ard (D3)	
Inundation Visible on Aeria	al Imagery (B7)	Other (Explain in Rem) arks)	Microtopograp	hic Relief (D4)	
Sparsely Vegetated Concav	ve Surface (B8)			✓ FAC-neutral Te	est (D5)	
Field Observations:							
Surface Water Present?	Yes 🖲	No \bigcirc	Depth (inches):	1			
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches):	11		× • •	
Saturation Present? (includes capillary fringe)	Yes 🖲	No \bigcirc	Depth (inches):	1 Wet	land Hydrology Present?	Yes $ullet$ No $igcup$	
Describe Recorded Data (st	ream gaug	ge, monito	ring well, aerial photos,	previous inspections	s), if available:		
Remarks:							
pockets of inundation							

VEGETATION - Use scientific names of plants

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC:100.0% (A/B)
6 7				Dravalance Index werkeheet:
1		- Total Cover		
Sapling/Shrub Stratum (Plot size:)		- Total Cover		$\frac{101}{101} \frac{100}{100} 10$
1	0			EACW species $15 \times 2 = 30$
2	0			$\frac{1}{10} \times 2 = \frac{1}{10}$
3	0			$\frac{1}{2} = \frac{1}{2} = \frac{1}$
4	0			$\frac{1}{1} = \frac{1}{1} = \frac{1}$
5	0			$\frac{1}{2} = \frac{1}{2} = \frac{1}$
6	0			COlumn Totals: (A) (B)
7	0			Prevalence Index = $B/A = 1.167$
Herb Stratum (Plot size:)	0 =	= Total Cover		Hydrophytic Vegetation Indicators:
1 Dhalaric arundinacea	10		FACW	Rapid Test for Hydrophytic Vegetation
			FACW	✓ Dominance Test is > 50%
2. Juncus effusus			OBI	✓ Prevalence Index is ≤3.0 1
A Lythrum salicaria			OBI	Morphological Adaptations ¹ (Provide supporting
5	0			data in Remarks or on a separate sneet)
6	0			
7.	0			1 Indicators of hydric soil and wetland hydrology must
8.	0			be present, unless disturbed or problematic.
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in, (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12	0			Sanling/shrub Woody plants loss than 2 in DBH and
	90 =	Total Cover		greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size:)	0			
1				size, and woody plants less than 3.28 ft tall.
2	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in height.
4	0 =	= Total Cover		
				Hydrophytic
				Present? Yes No
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-mdt4/22/2016-02

)epth	epth <u>Matrix</u>		Matrix Redox Features					
icnes)	Color (r	moist)		Color (moist)	<u>%</u> <u>Type</u> ¹	Loc ²	Texture	Remarks
-6	10YR	3/1	100				Silty Clay Loam	rock flakes in soil
				<u></u>	·			
			·					
			·					
				<u>.</u>				
: C=Con	centration. D	=Depletio	n. RM=Red	uced Matrix, CS=Covere	d or Coated Sand Gra	iins ² Loca	tion: PL=Pore Lining. I	M=Matrix
ic Soil]	Indicators:			_			Indicators for P	roblematic Hydric Soils : ³
listosol (A1)			Polyvalue Belov	v Surface (S8) (LRR R	,	2 cm Muck (A	A10) (LRR K, L, MLRA 149B)
listic Epi	pedon (A2)			Thin Dark Surfa	ice (S9) (LRR R. MLR	A 149B)	Coast Prairie	Redox (A16) (LRR K, L, R)
Hack Hist	IC (A3)			Loamy Mucky N	lineral (F1) LRR K, L)		5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
Stratified	Lavers (A5)			Loamy Gleyed I	Matrix (F2)		Dark Surface	(S7) (LRR K, L, M)
Depleted	Below Dark S	Surface (A	11)	Depleted Matrix	(F3)		Polyvalue Bel	ow Surface (S8) (LRR K, L)
hick Dar	rk Surface (A1	.2)	,	Redox Dark Sur	face (F6)		I hin Dark Sur	rface (S9) (LRR K, L)
Sandy Mi	uck Mineral (S	1)		Depleted Dark	Surface (F7)			ese Masses (FI2) (LKR K, L, K)
Sandy Gle	eyed Matrix (S	54)		Redox Depressi	ions (F8)			$(T\Delta 6) (MI R\Delta 144\Delta 145 149B)$
Sandy Re	:dox (S5)						Red Parent M	aterial (F21)
Stripped !	Matrix (S6)						Very Shallow	Dark Surface (TF12)
Dark Surf	ace (S7) (LRR	R R, MLRA	149B)				Other (Explain	n in Remarks)
licators o	f hydrophytic	vegetatio	n and wetla	nd hydrology must be p	resent, unless disturb	ed or proble	ematic.	
rictive L	ayer (if obs	erved):						
ype: <u>r</u> c	ock							
epth (inc	:hes):_6						Hydric Soil Preser	nt? Yes 🔍 No 🔾
arks:							I	

WETLAND DETERMINATION	DATA FORM - Northcentral and Northeast Region
Project/Site: Black River-Lorain 138kV Tline	City/County: Lorain/Lorain Sampling Date: 22-Apr-16
Applicant/Owner: FirstEnergy	State: OH Sampling Point: upl-mdt4/22/2016-2
Investigator(s): M.Thomayer, B.Otto	Section, Township, Range: S. T. 7N R. 17W
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): convex Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MIRA 139 in LRR R Lat:	41 437381 Long.: -82 147870 Datum: NAD 83
Soil Man Ilnit Name: Ama	
Are climatic/hydrologic conditions on the site typical for this time of Are Vegetation \Box , Soil \checkmark , or Hydrology \Box significant	year? YES INO (If no, explain in Remarks.) tly disturbed? Are "Normal Circumstances" present? Yes No I
Are Vegetation , Soil , or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
Summary of Findings - Attach site map showing	sampling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$	
Hydric Soil Present? Yes 🔿 No 🖲	Is the Sampled Area within a Wetland? Yes \bigcirc No \bigcirc
Wetland Hydrology Present? Yes \bigcirc No \odot	
Remarks: (Explain alternative procedures here or in a separate rem	port.)
unland plot in POW adjacent to wetland on old industrial area	
Hydrology	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required: check all that apply)	
Surface Water (A1)	aves (B9) Drainage Patterns (B10)
High Water Table (A2)	13) Moss Trim Lines (B16)
Saturation (A3)	.5) Dry Season Water Table (C2)
Water Marks (B1)	Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosp	heres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	iced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Iction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5)	e (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in	Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-neutral Test (D5)
Field Observations:	
Surface Water Present? Yes \bigcirc No \bigcirc Depth (inches):	
Water Table Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes 🔿 No 🖲
Saturation Present? Yes No Depth (inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	

VEGETATION - Use scientific names of plants

Sampling Point: upl-mdt4/22/2016-2

	Absolute	Dominant	Indicator	Dominance Test worksheet:
_Tree Stratum(Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:(A)
2	0			Tatal Number of Deminent
3	0			Species Across All Strata: 2 (B)
4	0			
5.	0			Percent of dominant Species
6.	0			That Are OBL, FACW, or FAC:(4/B)
7.	0			Prevalence Index worksheet:
	0 =	Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1. Rosa multiflora	20			FACW species $0 \times 2 = 0$
2	0			EAC species $90 \times 3 = 270$
3	0			
4	0			FACU species $0 - x = 0$
5	0			UPL species $-\frac{1}{2}$ x 5 = $-\frac{1}{2}$
6	0			Column Totals: (A) (B)
7	0			Prevalence Index = $B/A = 3.000$
	20 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size:)				Rapid Test for Hydrophytic Vegetation
1 . Solidago sp.	70	\checkmark	FAC	$\mathbf{M} = \mathbf{D}_{\mathbf{M}} \mathbf{D}_{M$
2. Poa sp.	20	\checkmark	FAC	
3	0			
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6.	0			
7.	0			¹ Indicators of hydric soil and wetland hydrology must
8	0			be present, unless disturbed or problematic.
9	0			Definitions of Vegetation Strata:
10	0			Tree Meady plants 2 in (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
10	0			
12	90 =	Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:)				greater than 3.26 it (111) tail.
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2.	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3 28 ft in
4	0			height.
	0 =	Total Cover		
				Hydrophytic
				Vegetation Present? Yes I No
Bernarden (Frederikate mund 1				
Remarks: (Include photo numbers here or on a separate shee	et.)			
poa sp 20, solidago sp 70				

eptn chee)	0 -1 (Matrix	0 /	Redox Features	2 Taxima Damada
cnes)	Color (n	noist)		<u>Color (moist)</u> <u>%</u> <u>Type</u> ¹ <u>Loc</u>	Texture Remarks
-5		3/2	100		Silt Loam Some gravel
					·
: C=Con	centration. D=	=Depletio	n. RM=Redu	iced Matrix, CS=Covered or Coated Sand Grains ² L	Location: PL=Pore Lining. M=Matrix
ic Soil 1	Indicators:				Indicators for Problematic Hydric Soils : 3
istosol (istic Eni	AI) inedon (A2)			MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
lack Hist	tic (A3)			Thin Dark Surface (S9) (LRR R, MLRA 1498)) Coast Prairie Redox (A16) (LRR K, L, R)
ydroger	ו Sulfide (A4)			Loamy Mucky Mineral (F1) LRR K, L)	Dark Surface (S7) (LRR K, L, M)
tratified	Layers (A5)			Loamy Gleyed Matrix (F2)	 Polyvalue Below Surface (S8) (LRR K, L)
epleted	Below Dark Si	urface (A	11)	Redox Dark Surface (F6)	Thin Dark Surface (S9) (LRR K, L)
andy Mi	uck Mineral (S	2) 1)		Depleted Dark Surface (F7)	Iron-Manganese Masses (F12) (LRR K, L, R)
andy Gle	eyed Matrix (S	-) (4)		Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B) Mosic Spedic (TA6) (MLRA 1444, 145, 140B)
andy Re	dox (S5)				Red Parent Material (F21)
tripped	Matrix (S6)				Very Shallow Dark Surface (TF12)
Dark Surf	ace (S7) (LRR	R, MLRA	(149B)		Other (Explain in Remarks)
cators o	f hydrophytic	vegetatio	n and wetla	nd hydrology must be present, unless disturbed or pr	roblematic.
ictive L	ayer (if obse.	erved):			
/pe: <u>ro</u>	ock				Hydric Soil Present? Yes 🔿 No 🔍
epth (inc	:hes):_5				
rks:					

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Black River-Lorain 138kV Tline	City/County: Lorain/Lorain	Sampling Date: 22-Apr-16
Applicant/Owner: FirstEnergy	State: (DH Sampling Point: w-mdt4/22/2016-3
Investigator(s): M.Thomayer, B.Otto	Section, Township, Range	:: S. T. 7N R. 17W
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex	, none): rolling Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R Lat.:	41.437321 Lo	ng.: -82.143617 Datum: NAD 83
Soil Map Unit Name: Ama		NWI classification: NA
Are climatic/hydrologic conditions on the site typical for this time of y Are Vegetation , Soil , or Hydrology , significan Are Vegetation , Soil , or Hydrology , naturally Summary of Findings - Attach site map showing a	year? Yes • No () tly disturbed? Are "Norm problematic? (If needed sampling point locatic	(If no, explain in Remarks.) al Circumstances" present? Yes ○ No ● I, explain any answers in Remarks.) DNS, transects, important features, etc
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks: (Explain alternative procedures here or in a separate report PEM wetland along ROW edge; area is disturbed and appears to fo	ort.) rmerly be an industrial site	
пуштоюду		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)

meetana nyarology inalea				Secondary Indicators (minimum of 2 required)
Primary Indicators (minir	num of one	required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)			✓ Water-Stained Leaves (B9)	Drainage Patterns (B10)
✓ High Water Table (A2)			Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)			Marl Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)			✓ Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)			Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)			Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)			Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)			Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery	(B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Cond	cave Surface	(B8)	· · · · · · · · · · · · · · · · ·	✓ FAC-neutral Test (D5)
Field Observations:	-	_		
Surface Water Present?	Yes 🖲	No 🔿	Depth (inches): 2	
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches):4	~ ~ ~ ~ ~
Saturation Present? (includes capillary fringe)	Yes 🖲	No \bigcirc	Depth (inches): 0 Wetland H	lydrology Present? Yes 🔍 No 🖯
Describe Recorded Data (stream gau	ige, monite	oring well, aerial photos, previous inspections), if a	available:
Remarks:				
pockets of inundation				
1				

VEGETATION - Use scientific names of plants

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:(A)
2	0			Total Number of Dominant
3	0			Species Across All Strata:(B)
4	0			
5	0			Percent of dominant Species
6	0			Inat Are OBL, FACW, or FAC:
7	0			Prevalence Index worksheet:
	0 =	- Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1	0			FACW species $100 \times 2 = 200$
2	0			EAC species $0 \times 3 = 0$
3	0			
4	0			$\begin{array}{cccc} \mathbf{FACO} & \mathbf{Spectres} & \underline{} & $
5	0			
6	0			Column Totals: <u>100</u> (A) <u>200</u> (B)
7	0			Prevalence Index = B/A = 2.000
	0 =	Total Cover		Hydronhytic Vegetation Indicators:
Herb Stratum (Plot Size:)				\mathbf{V} Rapid Test for Hydrophytic Vegetation
1. Phragmites australis	100	\checkmark	FACW	$\mathbf{V} \text{Dominance Test is } 50\%$
2	0			$\mathbf{V} \text{Dominance restrictions} > 50\%$
3	0			V Prevalence index is ≥ 3.0
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8.	0			be present, unless disturbed or problematic.
9.	0			Definitions of Vegetation Strata:
10	0			Tree Weedy plants 2 in (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12	0			
	100 =	= Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:)				
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cover		
				Hydrophytic
				Vegetation Present? Yes • No ·
.				
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-mdt4/22/2016-3

Profile Desc	ription: (Describe to	the depth I	needed to document	the indic	ator or co	onfirm the	absence of indicators.)		
Depth (inches)	Depth <u>Matrix</u>		Re	dox Featu	ires	1 ?	Taatuus Damaala		
		<u>%</u>					Cites Classification		
0-10	101R 3/1	95	101K 4/8	5					
							- , <u> </u>		
							· · · · · · · · · · · · · · · · · · ·		
							· · · · · · · · · · · · · · · · · · ·		
¹ Type: C=Cor	ncentration. D=Depletic	on. RM=Redu	ced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=Matrix		
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils : ³		
Histosol ((A1)		Polyvalue Belo	w Surface ((S8) (LRR R	ι,	\sim 2 cm Muck (A10) (LRR K MLRA 149B)		
🗌 Histic Epi	ipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K R)		
Black His	tic (A3)		Thin Dark Surfa	ace (S9) (I	LRR R, MLR	A 149B)	\Box 5 cm Mucky Peat or Peat (S3) (LRR K R)		
 Hydroger 	n Sulfide (A4)		Loamy Mucky I	Mineral (F1) LRR K, L)		Dark Surface (S7) (LRR K M)		
Stratified	Layers (A5)		Loamy Gleyed	Matrix (F2))		$\square Polyvalue Below Surface (S8) (I RB K, I)$		
Depleted	Below Dark Surface (A	11)	Depleted Matri	x (F3)			Thin Dark Surface (S9) (LRR K. I.)		
Thick Date	rk Surface (A12)		Redox Dark Su	rface (F6)			Iron-Manganese Masses (F12) (IRR K. L. R)		
Sandy Mu	uck Mineral (S1)		Depleted Dark	Surface (F	7)		Piedmont Floodplain Soils (F19) (MI RA 1498)		
Sandy Gl	eyed Matrix (S4)		Redox Depress	sions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Re	edox (S5)						Red Parent Material (F21)		
Stripped	Matrix (S6)						Very Shallow Dark Surface (TF12)		
Dark Sur	face (S7) (LRR R, MLRA	A 149B)					Other (Explain in Remarks)		
³ Indicators o	of hydrophytic vegetatic	on and wetlar	nd hvdroloav must be i	present, un	less disturb	ed or probl	lematic.		
Postrictivo I	over (if ebeenved)								
	ayer (il observeu):								
Donth (inc							Hydric Soil Present? Yes 🔍 No 🔾		
Depth (Inc	cnes):								
Remarks:									

WETLAND DE	TERMINATION DATA FO	ORM - Northcentra	I and Northeast Re	gion
Project/Site: Black River-Lorain 138kV Tline	City/Cou	nty: Lorain/Lorain	Samplin	g Date: 22-Apr-16
Applicant/Owner: FirstEnergy		State: OH	Sampling Point:	upl-mdt4/22/2016-3
Investigator(s): M.Thomayer, B.Otto	Sectio	on, Township, Range: S	 . т. 7N	R. 17W
Landform (hillslope, terrace, etc.); Flat	Local reli	ef (concave, convex, no	ne): convex	Slope: 0 0 % / 0 0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R	Lat.: 41.43741	2 Long.	-82.143573	Datum: NAD 83
Soil Map Unit Name: Ama			NWI classification:	NA
Are elimetic/hydrologic conditions on the site hym	ical for this time of year?			
Are Contractory inversion of the site type			ir no, explain in Remarks	
		eur Are Normal C	ircumstances" present?	
Are Vegetation, Soil, or Hydrolog	gy 🗋 naturally problemati	ic? (If needed, ex	plain any answers in Rei	marks.)
Summary of Findings - Attach site i	map showing samplin	g point locations	, transects, impo	rtant features, etc
Hydrophytic Vegetation Present? Yes \bigcirc 1	No 🔍			
Hydric Soil Present? Yes 🔾		is the Sampled Area within a Wetland?	Yes 🔿 No 🖲	
Wetland Hydrology Present? Yes 🔘 I	No 🔍			
Remarks: (Explain alternative procedures here of	or in a separate report.)			
upland plot in ROW adjacent to wetland on old	industrial area			
L Hvdrology				
Wetland Hydrology Indicators:			Coordon , Indianton (minim	une of 2 meanined)
Primary Indicators (minimum of one required: c	heck all that apply)	-		ium of 2 required)
Surface Water (A1)	Water Stained Leaves (P0)			
High Water Table (A2)			Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table	e (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	()
Sediment Deposits (B2)	Oxidized Rhizospheres along I	Living Roots (C3)	Saturation Visible on Ae	rial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4	4)	Stunted or Stressed Plar	nts (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tille	d Soils (C6)	Geomorphic Position (D	2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface (B8)			FAC-neutral Test (D5)	
Field Observations:	Dopth (inchos);			
Water Table Dresent?				
Saturation Present?		Wetland Hydro	logy Present? Yes	🔿 No 🖲
(includes capillary fringe) Yes V No •	Depth (inches):			
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previou	us inspections), if availa	ble:	
Dementar				
Remarks:				

VEGETATION - Use scientific names of plants

		Dominant		
	Absolute	Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species	Status	Number of Dominant Species
4	0			That are OBL EACW or EAC: 1 (A)
L				
2	0			
	0			Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4	0			
5	0			Percent of dominant Species
Э				That Are OBL EACW or EAC: 50.0% (A/B)
6.	0			
7				Barradan a Tadaman dada at
/				Prevalence Index worksheet:
	0 =	= Total Cover	-	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				
	0	_		OBL species $0 \times 1 = 0$
1	0			FACW species $30 \times 2 = 60$
2	0			
				FAC species $_0$ x 3 = $_0$
3				5 6 20
4	0			FACU species $3x 4 = 20$
				UPL species $\frac{70}{10} \times 5 = \frac{350}{10}$
5				
6	0			Column Totals: <u>105</u> (A) <u>430</u> (B)
-				
/	0			Prevalence Index = $B/A = 4.095$
	0 -	= Total Cove		
Herb Stratum (Plot size:)		100010070		Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
1 Rosa multiflora	5		FACU	
	70			Dominance Test is > 50%
2. Daucus pusilius		V	UPL	\square Provalence Index is <3.0 1
3 Phragmites australis	30	\checkmark	FACW	
				Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5	0			Ducklowstic Underschutic Venetation 1 (Europein)
5				
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				• · · · • • · · ·
0	0			Definitions of Vegetation Strata:
9				
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			at breast height (DBH) regardless of height
11				
12	0			Conting/obyth Woody plants loss than 2 in DDU and
	105 -	- Total Cover		Saping/shrub - woody plants less than 3 m. DBH and
Woody Vine Stratum (Plot size:				greater than 3.28 ft (1m) tail
(Het Stratum (Het Stratum)		_		
1	0			Herb - All herbaceous (non-woody) plants, regardless of
0				size, and woody plants less than 3.28 ft tall.
۷				
3	0			Woody vine - All woody vines greater than 3 28 ft in
- A	0			height
4				lioignt.
	0 =	= Total Cover	•	
				Hydrophytic
				Present? Tes UND C
Remarks: (Include photo numbers here or on a separate she	et.)			
	-			

eptn chec)		Matrix		Redox Features	— —	. .
cnes)	Color (r	noist)		<u>Color (moist)</u> <u>%</u> <u>Type</u> ¹ Loc ²	Texture	Remarks
5	10YR	3/2	100		Silt Loam	some gravel
: C=Con	centration. D	=Depletio	n. RM=Red	uced Matrix, CS=Covered or Coated Sand Grains ² Loo	cation: PL=Pore Lining.	M=Matrix
ic Soil 1	Indicators:				Indicators for	Problematic Hydric Soils : ³
IStOSOI (listic Eni	A1) nedon (A2)			Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
lack Hist	tic (A3)			Thin Dark Surface (S9) (LRR R, MLRA 149B)		e Redox (A16) (LRR K, L, R)
ydroger	Sulfide (A4)			Loamy Mucky Mineral (F1) LRR K, L)	Dark Surface	Peat of Peat (S3) (LKR K, L, R) \sim (S7) (LRR K M)
tratified	Layers (A5)			Loamy Gleyed Matrix (F2)	Polyvalue Be	elow Surface (S8) (LRR K, L)
epleted	Below Dark S	urface (A	11)	Depieted Matrix (F3) Redox Dark Surface (F6)	Thin Dark Su	urface (S9) (LRR K, L)
hick Dar and Mu	K Surface (A1	2) 1)		Depleted Dark Surface (F7)	Iron-Mangar	nese Masses (F12) (LRR K, L, R)
andy Gle	eved Matrix (S	1) (4)		Redox Depressions (F8)	Piedmont Flo	bodplain Soils (F19) (MLRA 149B)
andy Re	dox (S5)	.,				C (TA6) (MLRA 144A, 145, 149B) Material (E21)
tripped	Matrix (S6)				Very Shallov	v Dark Surface (TF12)
ark Surf	ace (S7) (LRR	R, MLRA	149B)		Other (Expla	in in Remarks)
cators o	f hydrophytic	vegetatio	n and wetla	nd hydrology must be present, unless disturbed or prol	blematic.	
ictive L	ayer (if obse	erved):				
/pe: <u>ro</u>	ock				Hudric Soil Brock	
epth (inc	hes): 5				nyuric Soli Prese	antr Yes U NO U
rks:						

WETLAND DE	TERMINATION DATA FORM -	Northcentral an	d Northeast Reg	jion
Project/Site: Black River-Lorain 138kV Tline	City/County:	Lorain	Sampling	g Date: 21-Apr-16
Applicant/Owner: FirstEnergy		State: OH	Sampling Point:	w-mdt4/21/2016-8
Investigator(s): M.Thomayer, B.Otto	Section, Tow	nship, Range: S.	T. 7N	R. 17W
Landform (hillslope, terrace, etc.): Flat	Local relief (con	cave, convex, none):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R	Lat.: 41.437305	Long.: -82	2.139731	Datum: NAD 83
Soil Map Unit Name: AmA			NWI classification:	N/A
Are climatic/hvdrologic conditions on the site typic	cal for this time of year? Yes	• No (If no	- explain in Remarks	.)
Are Vegetation , Soil , or Hydrology	y significantly disturbed?	Are "Normal Circur	nstances" present?	Yes Yes No
Are Vegetation Soil or Hydrology	v naturally problematic?	(If needed, explain	any answers in Ren	narks)
Summary of Findings - Attach site n	nan showing sampling poi	nt locations, tr	ansects, impor	tant features, etc
Hydrophytic Vegetation Present? Fes I N	Is the S	ampled Area		
Hydric Soil Present? TeS I N	within a	Wetland? Yes		
Wetland Hydrology Present? TeS IN				
Hydrology				
Wetland Hydrology Indicators:		Secon	dary Indicators (minim	um of 2 required)
Primary Indicators (minimum of one required; ch	neck all that apply)	s	urface Soil Cracks (B6)	
✓ Surface Water (A1)	✓ Water-Stained Leaves (B9)		rainage Patterns (B10)	
► Flight water Table (A2)	Aquatic Fauna (B13)		loss Trim Lines (B16)	(C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		ravfish Burrows (C8)	(C2)
Sediment Deposits (B2)	 Oxidized Rhizospheres along Living Rel 	oots (C3)	aturation Visible on Aer	ial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)) s	tunted or Stressed Plan	ts (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6) 🗌 G	eomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	L S	hallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B/) Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		licrotopographic Relief (D4)
			AC-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes • No	Depth (inches): 4			
Water Table Present? Yes 🔾 No 🔍	Depth (inches):		Non (
Saturation Present? (includes capillary fringe) Yes No	Depth (inches): 0	wetiand Hydrology	Present? Tes @	
Describe Recorded Data (stream gauge, monitorin	ng well, aerial photos, previous inspe	ections), if available:		
Remarks:				
saturated throughout and mostly inundated				
US Army Corps of Engineers		North	central and Northeas	t Region - Version 2.0

VEGETATION - Use scientific names of plants

Sampling Point:	w-mdt4/21/2016-8

(Plet size:	Absolute	Dominant	Indicator	Dominance Test worksheet:
	<u>% Cover</u>		Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
07				Drouglance Index werkehoet
1		Total Cover		Total 0/ Cover of Multiply by
Sapling/Shrub Stratum (Plot size:)	=	Total Cover		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
1	0			$\frac{10}{10} \times 1 = \frac{10}{10}$
2	0			FACE species $\frac{70}{10} \times 2 = \frac{110}{10}$
3	0			FAC species $0 \times 3 = 0$
4	0			FACU species $0 \times 4 = 0$
5	0			UPL species $-\frac{1}{2}$ x 5 = $-\frac{1}{2}$
6	0			Column Totals: <u>80</u> (A) <u>150</u> (B)
7	0			Prevalence Index = $B/A = 1.875$
Harb Stratume (Plot size)	=	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Fot size)		_		Rapid Test for Hydrophytic Vegetation
1. Lysimachia nummularia			FACW	✓ Dominance Test is > 50%
2. Eleocharis acicularis			OBL	✓ Prevalence Index is \leq 3.0 ¹
3. Phalaris arundinacea			FACW	Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wotland hydrology must
/				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
10				a breast height (DDH), regardless of height.
12	80 -	· Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
_Woody Vine Stratum (Plot size:)				greater than 3.28 ft (1m) tail
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0	□ .		height.
	0 =	Total Cover		
				Underse head's
				Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-mdt4/21/2016-8

Profile Descr	ription: (Desc	ribe to t	he depth	needed to	document	the indic	cator or co	onfirm the	absence of indicators.)	
Depth (inches)	N	latrix oist)	0/2	Color	Re (moist)	dox Featu	ures	Loc2	Texture	Pomarke
0.12		2/1				10				Remarks
0-12	101K	3/1	90	101R	4/6	10		PL	Silty Clay Loam	
	<u> </u>									-
					_					
				-						
										anna le
¹ Type: C=Con	centration. D=I	Depletion	. RM=Red	uced Matrix	CS=Cover	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=	=Matrix
Hydric Soil 1	Indicators:								Indicators for Pro	blematic Hydric Soils : ³
Histosol ((A1)			🗌 Pol	yvalue Belo	w Surface	(S8) (LRR F	R,	2 cm Muck (A10)) (IRR K MIRA 149B)
Histic Epi	pedon (A2)			ML	RA 149B)					Pdox (A16) (IRR K R)
Black Hist	tic (A3)				n Dark Surf	ace (S9) (LRR R, MLF	RA 149B)	5 cm Mucky Pea	at or Peat (S3) (LRR K, L, R)
Hydrogen	n Sulfide (A4)				my Mucky	Mineral (F1	l) LRR K, L)		Dark Surface (S	57) (LRR K. L. M)
Stratified	Layers (A5)				my Gleyed	Matrix (F2)		Polvvalue Below	/ Surface (S8) (LRR K, L)
Depleted	Below Dark Su	rface (A1	1)	⊻ De	bleted Matri	x (F3)			Thin Dark Surfa	ce (S9) (LRR K, L)
Thick Dar	rk Surface (A12)			lox Dark Su	rface (F6)	-7		Iron-Manganese	e Masses (F12) (LRR K, L, R)
Sandy Mu	uck Mineral (S1))			Deted Dark	Surface (F	./)		Piedmont Flood	plain Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix (S4)			lox Depress	sions (F8)			Mesic Spodic (T	A6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)								Red Parent Mate	erial (F21)
Stripped I	Matrix (S6)								Very Shallow Da	ark Surface (TF12)
Dark Surf	face (S7) (LRR I	R, MLRA	149B)						Other (Explain i	n Remarks)
³ Indicators of	f hydrophytic v	egetation	and wetla	nd hydrolog	y must be p	oresent, ur	nless disturt	ed or probl	lematic.	
Restrictive L	aver (if obser	ved).								
Type ¹		veu).								
Denth (inc	hec).								Hydric Soil Present?	? Yes 🖲 No 🔾
Remarks:										
1										

WETLAND	DETERMINATION	DATA FORM	- Northcentra	al and Northeast Re	gion
Project/Site: Black River-Lorain 138kV Tline		City/County:	Lorain	Sampli	ng Date: 21-Apr-16
Applicant/Owner: FirstEnergy		-	State: OH	Sampling Point:	upl-mdt4/21/2016-8
Investigator(s): M.Thomayer, B.Otto		Section, To	wnship, Range: 9	 5. т. 7N	R. 17W
Landform (hillslope, terrace, etc.): Flat		 Local relief (co	ncave, convex, n	one): convex	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 139 in LF	R R Lat.:	41,437429	Long	82,140129	Datum: NAD 83
Soil Map Unit Name: AmA				NWI classification:	N/A
		a Vaa			
Are climatic/hydrologic conditions on the site	typical for this time of y	ear? fes	\odot no \bigcirc	(If no, explain in Remark	(s.)
Are Vegetation , Soil , or Hyd	rology Significant	tly disturbed?	Are "Normal	Circumstances" present?	Yes \bigcirc No \bigcirc
Are Vegetation, Soil, or Hyd	rology 🗌 naturally p	problematic?	(If needed, e	xplain any answers in Re	emarks.)
Summary of Findings - Attach si	te map showing s	sampling po	int location	s, transects, impo	rtant features, etc
Hydrophytic Vegetation Present? Yes	No 🖲				
Hydric Soil Present? Yes	No 🖲	Is the	Sampled Area		
Wetland Hydrology Present? Yes	No 🖲	within	a wetland?		
Remarks: (Explain alternative procedures h	ere or in a senarate reno	rt.)			
in ROW adjacent to wetland	ere or in a separate repo				
Hydrology					
Wetland Hydrology Indicators:				Secondary Indicators (minir	num of 2 required)
Primary Indicators (minimum of one require	d; check all that apply)			Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Lea	aves (B9)		Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B1	.3)		Moss Trim Lines (B16)	,
Saturation (A3)	Marl Deposits (B1	5)		Dry Season Water Tabl	e (C2)
Water Marks (B1)	Hydrogen Sulfide	Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizosph	eres along Living I	Roots (C3)	Saturation Visible on Ae	erial Imagery (C9)
Drift deposits (B3)	Presence of Reduc	ced Iron (C4)		Stunted or Stressed Pla	ints (D1)
Algal Mat or Crust (B4)	Recent Iron Reduc	ction in Tilled Soils	(C6)	Geomorphic Position (D	02)
Iron Deposits (B5)	Thin Muck Surface	e (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in I	Remarks)		Microtopographic Relief	f (D4)
Sparsely Vegetated Concave Surface (B8)				FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present? Yes O No	Depth (inches):				
Water Table Present? Yes O No	Denth (inches):				
Saturation Present?) Depth (inches).		Wetland Hydro	ology Present? Yes	🔾 No 🖲
(includes capillary fringe) Fes No					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photo	os, previous insp	ections), if availa	able:	
Remarks:					

VEGETATION - Use scientific names of plants

Sampling Point:	upl-mdt4/21/2016-8

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:(A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: (B)
4	0			Demonstraf demoise with Caracian
5	0			That Are OBL_EACW_or_EAC' 0.0% (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:)	=	Total Cove		Total % Cover of: Multiply by:
1	0			OBL species $0 \times 1 = 0$
2	0			FACW species $0 \times 2 = 0$
3	0			FAC species $0 \times 3 = 0$
4	0			FACU species $0 \times 4 = 0$
T	0			UPL species $0 \times 5 = 0$
о б	0			Column Totals: <u>0</u> (A) <u>0</u> (B)
7	0			Prevalence Index = $B/A = 0.000$
·	0 =	= Total Cove		
Herb Stratum (Plot size:)				Hydrophytic Vegetation Indicators:
1	0			
2	0			$\Box \text{ Dominance lest is } 50\%$
3	0			Prevalence Index is $\leq 3.0^{-2}$
4.	0			Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6.	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8.	0			be present, unless disturbed or problematic.
9.	0			Definitions of Vegetation Strata:
10.	0			Tree - Woody plants, 3 in, (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12.	0			Oralian (shark) Manda at a tractile and the an
	0 =	Total Cove		greater than 3.28 ft (1m) tall.
Woody Vine Stratum (Plot size:)		_		
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.20 ft tail.
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	=	Total Cove	.	
				Hydronhytic
				Vegetation
				Present? Pres C NO C
Remarks: (Include photo numbers here or on a separate sh	neet.)			
poa sp 100, white clover 20, dandelion 10				

Profile Desc	ription: (Describe	to the depth	needed to documen	t the indic	cator or co	onfirm the	absence of indicato	rs.)			
Depth (inches)	Matrix Color (moist)	<u>د</u>	Redox Features				Texture Demarks				
0-6	10VP 5/2	<u> </u>		25		 M	Silty Clay	gravel and other debris			
			0/0		C			J			
-											
				-							
							-				
				_	_						
	. <u> </u>										
	centration D-Denle	tion RM-Red	uced Matrix CS-Cover	ed or Coat	ed Sand Gr	rains 21 oca	ation: DI - Pore Lining	M-Matrix			
								2			
			Dobacelus Dela	W Curface	ر مم <i>ا</i> / (۲۵)	D	Indicators for	Problematic Hydric Soils :			
	(AI)		MLRA 149B)	w Sunace	(50) (LKK I	к,	2 cm Muck	(A10) (LRR K, L, MLRA 149B)			
	ipedon (AZ)		Thin Dark Surf	face (S9) (LRR R, ML	RA 149B)	Coast Prairie	e Redox (A16) (LRR K, L, R)			
	tic (A3)			Mineral (F1	I) I RR K I)	🗌 5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)			
	n Sulfide (A4)			Matrix (F2)		Dark Surfac	e (S7) (LRR K, L, M)			
Stratified	Layers (A5)			iv (F3))		Polyvalue Be	elow Surface (S8) (LRR K, L)			
	Below Dark Surface	(A11)		urface (F6)			Thin Dark S	urface (S9) (LRR K, L)			
Thick Da	rk Surface (A12)			Surface (FO)	7)		Iron-Manga	nese Masses (F12) (LRR K, L, R)			
Sandy Mi	uck Mineral (S1)			cione (EQ)	/)		Piedmont Fl	oodplain Soils (F19) (MLRA 149B)			
Sandy Gl	eyed Matrix (S4)			50115 (10)			Mesic Spodi	c (TA6) (MLRA 144A, 145, 149B)			
Sandy Re	edox (S5)						Red Parent	Material (F21)			
Stripped	Matrix (S6)						Very Shallow	v Dark Surface (TF12)			
Dark Sur	face (S7) (LRR R, ML	RA 149B)					Other (Expla	ain in Remarks)			
³ Indicators o	of hydrophytic vegeta	tion and wetla	ind hydrology must be	present, ur	nless distur	bed or probl	ematic.				
Doctrictivo I	aver (if shear od)		,	, ,							
Turnou	ayer (il observed)	•									
Type:							Hydric Soil Prese	ent? Vec 🔿 No 🔍			
Depth (inc	ches):						injune son mes				
Remarks:											

WETLAND D	ETERMINATION DATA FORM	- Northcentra	al and Northeast Re	gion
Project/Site: Black River-Lorain 138kV Tline	City/County:	Lorain	Samplir	ng Date: 21-Apr-16
Applicant/Owner: FirstEnergy		State: OH	Sampling Point:	w-mdt4/21/2016-9
Investigator(s): M.Thomayer, B.Otto	Section, To	wnship, Range: 9	 5. т. 7N	R. 17W
Landform (hillslope, terrace, etc.): Flat	Local relief (co	ncave, convex, n	one): concave	
Subregion (LRR or MLRA): MLRA 139 in LRR	R Lat.: 41.437546	Long	· -82.129179	Datum: NAD 83
Soil Map Unit Name: AmA			NWI classification:	N/A
Ave elimetic /budyelegic conditions on the site to	nical far this time of year? Ves			-)
Are Connactor Inversion Contractions on the site by			(ir no, explain in Remarks	
		Are "Normal	Circumstances" present?	
Are Vegetation, Soil, or Hydrol	ogy inaturally problematic?	(If needed, e	xplain any answers in Re	marks.)
Summary of Findings - Attach site	map showing sampling po	oint location	s, transects, impo	rtant features, etc
Hydrophytic Vegetation Present? Yes •	No			
Hydric Soil Present? Yes 🔍	No Is the within	Sampled Area a Wetland?	Yes 🖲 No 🔾	
Wetland Hydrology Present? Yes 🔍	No			
Hydrology				
Wetland Hydrology Indicators:			Secondary Indicators (minim	num of 2 required)
Primary Indicators (minimum of one required;	check all that apply)		Surface Soil Cracks (B6))
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10))
$\mathbf{\nabla} = \begin{bmatrix} \text{High Water Table} (A2) \\ \mathbf{\nabla} = \begin{bmatrix} \text{Saturation} (A3) \end{bmatrix}$	Aquatic Fauna (B13)		Moss Trim Lines (B16)	N (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Cravfish Burrows (C8)	(C2)
Sediment Deposits (B2)	✓ Oxidized Rhizospheres along Living	Roots (C3)	Saturation Visible on Ae	rial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plan	nts (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	(C6)	Geomorphic Position (D	2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		 Microtopographic Relief EAC-pointral Test (D5) 	(D4)
			▼ FAC-fieutral fest (D5)	
Field Observations:				
Surface Water Present? Yes O No 🔍	Depth (inches):			
Water Table Present? Yes O No 🖲	Depth (inches):			
Saturation Present? (includes capillary fringe) Yes • No	Depth (inches):4	Wetland Hydro	ology Present? Yes	
Describe Recorded Data (stream gauge, monito	pring well, aerial photos, previous insp	pections), if availa	able:	
Remarks:				
US Army Corps of Engineers			Northcentral and Northea	st Region - Version 2.0

VEGETATION - Use scientific names of plants

Sampling Point:	w-mdt4/21/2016-9

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:(A)
2	0			Tatal Number of Deminent
3	0			Species Across All Strata: 1 (B)
4	0			()
5.	0			Percent of dominant Species
6	0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7	0			Prevalence Index worksheet:
	0 -	Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				
1.	0			
2	0			FACW species $100 \times 2 = 200$
	0			FAC species $0 \times 3 = 0$
0	0			FACU species $0 \times 4 = 0$
4				UPL species $0 \times 5 = 0$
5				Column Totals: 100 (A) 200 (B)
6				
7				Prevalence Index = $B/A = 2.000$
Herb Stratum (Plot size:)	0 =	Total Cover		Hydrophytic Vegetation Indicators:
	100		FACIN	✓ Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea	100		FACW	✓ Dominance Test is > 50%
2	0			✓ Prevalence Index is ≤3.0 ¹
3	0			Morphological Adaptations ¹ (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0			\Box Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8.	0			be present, unless disturbed or problematic.
9	0			Definitions of Vegetation Strata:
10	0			Tree Meady plants 2 in (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12				
12	100 -	Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:)	100 =	Total Cover		greater than 3.28 ft (1m) tall.
1	0			Herb - All herbaceous (non-woody) plants, regardless of
0	0			size, and woody plants less than 3.28 ft tall.
2				
3				Woody vine - All woody vines greater than 3.28 ft in height
4				neight.
		Total Cover		
				Hydrophytic Vegetation
				Present? Yes \bullet No \bigcirc
Remarks: (Include nhoto numbers here or on a senarate she	et)			

Sampling Point: w-mdt4/21/2016-9

Profile Desc	ription: (Descri	be to the depth	needed to documen	t the indic	ator or co	nfirm the a	absence of indicators.)	
Depth (inches)	Ma	itrix (ict) %	Color (moist)	dox Featu	Type 1	Loc ²	Texture	Pemarks
0-12	10YR	5/1 90	10YR 5/6	10	Type		Clay Loam	Kemarks
0 12		5,1 50						
							,	
							· · · · · · · · · · · · · · · · · · ·	
¹ Type: C=Cor	ncentration. D=De	epletion. RM=Red	uced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=Ma	trix
Hydric Soil	Indicators:		_				Indicators for Proble	matic Hydric Soils : 3
Histosol	(A1)		Polyvalue Belo	w Surface ((S8) (LRR R,	,	2 cm Muck (A10) (_RR K, L, MLRA 149B)
Histic Epi	ipedon (A2)		MILKA 149D)	Faca (50) (I		A 140P)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black His	tic (A3)			Minoral (E1		4 1490)	5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)			Matrix (F1) LKK K, L)		Dark Surface (S7)	(LRR K, L, M)
Stratified	Layers (A5)			iv (F3))		Polyvalue Below Su	rface (S8) (LRR K, L)
	Below Dark Surfa	ace (A11)	Redox Dark Si	IN (I J)			Thin Dark Surface	S9) (LRR K, L)
Thick Da	rk Surface (A12)			Surface (F	7)		Iron-Manganese M	asses (F12) (LRR K, L, R)
Sandy M	uck Mineral (S1)			sions (F8)	,)		Piedmont Floodplai	n Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)						Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red Parent Materia	l (F21)
	Matrix (S6)						Very Shallow Dark	Surface (TF12)
	race (S7) (LRR R,	MLRA 149B)					Other (Explain in R	emarks)
³ Indicators c	of hydrophytic veg	petation and wetla	nd hydrology must be	present, un	less disturbe	ed or proble	ematic.	
Restrictive L	ayer (if observ	ed):						
Туре:								
Depth (ind	ches):						Hydric Soil Present?	Yes 🔍 No 🔾
Remarks:								

WETLAND DETERMINATION	DATA FORM - Northcer	ntral and Northeast Re	gion
Project/Site: Black River-Lorain 138kV Tline	City/County: Lorain	Sampli	ng Date: 21-Apr-16
Applicant/Owner: FirstEnergy	State:	OH Sampling Point:	upl-mdt4/21/2016-9
Investigator(s): M.Thomayer, B.Otto	Section, Township, Rang	е: S. Т. 7N	R. 17W
Landform (hillslope, terrace, etc.): Flat	 Local relief (concave, conve	x, none): convex	Slope: 0 0 % / 0 0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R Lat.:	41.437466 L	ong.: -82.128215	Datum: NAD 83
Soil Map Unit Name: AmA		NWI classification:	N/A
Are climatic / hydrologic conditions on the site typical for this time of a	(ear? Yes 🖲 No 🔿	(If no, ovaloin in Romork	
Are Vegetation Soil or Hydrology significan	thy disturbed? Are "Norm	(II no, explain in Remark	Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If neede	d, explain any answers in Re	marks.)
Summary of Findings - Attach site map showing	sampling point locati	ons, transects, impo	rtant features, etc
Hydrophytic Vegetation Present? Yes Vo	To the Complete Aug		
Hydric Soil Present? Yes • No ·	within a Wetland?	* Yes 🔾 No 🖲	
Wetland Hydrology Present? Yes 🕖 No 🔍			
Remarks: (Explain alternative procedures here or in a separate repo	ort.)		
in ROW adjacent to wetland			
Hydrology			
Wetland Hydrology Indicators:		Secondary Indicators (minin	num of 2 required)
Primary Indicators (minimum of one required; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Le	aves (B9)	Drainage Patterns (B10)
High Water Table (A2)	13)	Moss Trim Lines (B16)	
Saturation (A3)	5)	Dry Season Water Table	e (C2)
Water Marks (B1)	Odor (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	neres along Living Roots (C3)	Saturation Visible on Ae	erial Imagery (C9)
Drift deposits (B3)	ced Iron (C4)	Stunted or Stressed Pla	nts (D1)
Algal Mat or Crust (B4) Recent Iron Redu	ction in Tilled Soils (C6)	Geomorphic Position (D	2)
Iron Deposits (BS)	e (C7)	Shallow Aquitard (D3)	
Sparsely Vegetated Concave Surface (B8)	Remarks)		(D4)
Field Observations:			
Surface Water Present? Yes No O Depth (inches):			
Water Table Present? Yes O No O Depth (inches):			
Saturation Present? Yes No Depth (inches):	Wetland H	ydrology Present? Yes	U NO U
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if a	vailable:	
Remarks:			

VEGETATION - Use scientific names of plants

Sampling Point:	upl-mdt4/21/2016-9

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:(A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: (B)
4	0			Demonstraf demoiseret Caracian
5	0			That Are OBL_EACW_or_EAC' 0.0% (A/B)
6	0			
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:)	=	Total Cover		Total % Cover of: Multiply by:
1	0			OBL species 0 x 1 = 0
2	0			FACW species $0 \times 2 = 0$
3	0			FAC species $0 \times 3 = 0$
4	0			FACU species $0 \times 4 = 0$
т	0			UPL species $0 \times 5 = 0$
о б	0			Column Totals: <u>0</u> (A) <u>0</u> (B)
7	0			Prevalence Index = $B/A = 0.000$
	0 =	Total Cover		
_Herb Stratum (Plot size:)				Hydrophytic Vegetation Indicators:
1	0			
2	0			$\Box \text{ Dominance lest is } 50\%$
3	0			Prevalence Index is $\leq 3.0^{-2}$
4.	0			Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8	0			be present, unless disturbed or problematic.
9	0			Definitions of Vegetation Strata:
10.	0			Tree - Woody plants, 3 in, (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12	0			Oralia (sha hu Masahu Isata Isata Ikan Oʻzu DDU sad
	0 =	Total Cover		greater than 3.28 ft (1m) tall.
Woody Vine Stratum (Plot size:)		_		.
1	0			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall
2	0			size, and woody plants less than 3.20 ft tail.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cover		
				Hydronhytic
				Vegetation
				Present? Pres C No C
Remarks: (Include photo numbers here or on a separate she	et.)			
poa sp 60, white clover 40, dandelion 20				

Profile Descr	ription: (Des	ribe to	the depth	needed to document	the indicat	tor or co	nfirm the a	absence of indicators.)
Depth (inchos)		Matrix		Re	lox Feature	25		·	
(incres)	Color (n	noist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-10	10YR	3/1	100					Silt Loam	
								-	
1 Type: C-Con	Centration D-	Denletio	n RM-Dod	red Matrix CS-Cover	nd or Costad	Sand Gro	ins 21 000	tion: PI-Pore Lining M	=Matrix
iype. c=coll		Depieduol					ins -LUCd	IGON. TE-FORE LINING. M	
Hydric Soil 1	Indicators:							Indicators for Pro	blematic Hydric Soils : 3
Histosol ((A1)			Polyvalue Belov	v Surface (S8	3) (LRR R,		2 cm Muck (A1	0) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)			MLRA 149B)					(A16)(IRR K R)
Black Hist	tic (A3)			Thin Dark Surfa	ace (S9) (LR	R R, MLR/	A 149B)		rat or Post (C2) (LPD K = D)
Hydrogen	n Sulfide (A4)			Loamy Mucky	1ineral (F1) l	LRR K, L)			
Stratified	Lavers (A5)			Loamy Gleyed	Matrix (F2)			Dark Surface (S	57) (LRR K, L, M)
	Bolow Dark Si	urfaco (At	11)	Depleted Matrix	(F3)			Polyvalue Belov	v Surface (S8) (LRR K, L)
	Delow Dark St		[]	Redox Dark Su	face (F6)			Thin Dark Surfa	ace (S9) (LRR K, L)
	rk Surface (A12	<u>2</u>)			Furface (E7)			Iron-Manganes	e Masses (F12) (LRR K, L, R)
Sandy Mu	uck Mineral (S1	.)						Piedmont Flood	lplain Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix (S	4)		Redox Depress	ions (F8)			Mesic Spodic (1	TA6) (MI RA 144A 145 149B)
Sandy Re	edox (S5)							Ped Parent Mat	rio) (F21)
Stripped	Matrix (S6)								
Dark Surf	face (S7) (I RR		149B)						ark Surface (TF12)
			1,00)					Uther (Explain	in Remarks)
³ Indicators o	f hydrophytic v	egetation	n and wetla	nd hydrology must be p	resent, unles	ss disturbe	ed or proble	ematic.	
Restrictive L	aver (if obse	rved):							
Type		,							
Type:								Hvdric Soil Present	? Yes 🖲 No 🔿
Depth (inc	ches):							.,	
Remarks:									

WETLAND DETERMINAT	ON DATA FORM - Northcentra	al and Northeast Region
Project/Site: Black River-Lorain 138kV Tline	City/County: Lorain	Sampling Date: 21-Apr-16
Applicant/Owner: FirstEnergy	State: OH	Sampling Point: w-mdt4/21/2016-5
Investigator(s): M.Thomayer, B.Otto	Section, Township, Range: S	5. T. 7N R. 17W
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, no	one): concave Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R		.: -82 11712 Datum: NAD 83
Soil Man Linit Name: AmA		NWT classification: N/A
Are climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology signi	e of year? ाफ्ट ं ाण ं	(If no, explain in Remarks.) Circumstances" present? Yes • No O
Are Vegetation , Soil , or Hydrology natu	ally problematic? (If needed, e	xplain any answers in Remarks.)
Summary of Findings - Attach site map showi	na samplina point location	s. transects, important features, etc
Hudrandustic Vogotation Brocont2 Yes No		-,
	Is the Sampled Area	··
	within a Wetland?	Yes ● No ∪
Wetland Hydrology Present?		
Remarks: (Explain alternative procedures here or in a separate	report.)	
PEM wetland in mowed ROW		
I		
Hydrology		
Wetland Hydrology Indicators		Consider, Indicators (minimum of 2 required)
Drimony Indicators (minimum of one required: check all that a		
	рруу) 	Surface Soil Cracks (B6)
✓ Surface Water (A1) ✓ Water-Stain	ed Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	na (B13)	Moss Trim Lines (B16)
Saturation (A3)	rs (B15)	Dry Season Water Table (C2)
Water Marks (B1)	ulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rh	zospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	urface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	in in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	,	✓ FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes Vo Depth (inc	hes):4	
Water Table Present? Yes Vo O Depth (inc	hes):	nlogy Present? Yes No
Saturation Present? Yes $ otimes$ No $ otimes$ Depth (includes capillary fringe)	hes):0	Nogy reserver res - no -
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections), if availa	able:
	"	
Remarks:		
saturated throughout with pockets of inundation		

VEGETATION - Use scientific names of plants

Sampling Point:	w-mdt4/21/2016-5

Tree Stratum (Plot size:) 9% Cover _ Species / Status Number of Dominant Species 1	
1. 0 0 1 A 2. 0 0 0 0 3. 0 0 0 0 4. 0 0 0 0 0 5. 0 0 0 0 0 0 6. 0 0 0 0 0 0 0 7. 0 0 0 0 0 0 0 0 1. 0 <td></td>	
2. 0 0 0 0 3. 0 0 0 0 0 4. 0 0 0 0 0 0 5. 0 0 0 0 0 0 0 6. 0 0 0 0 0 0 0 0 7. 0	
3. 0 □ Species Across All Strata: 1 (B) 4. 0 □ Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/ 6. 0 □ Prevalence Index worksheet: Total % Cover of: Multiply by: 0 1. 0 □ Prevalence Index worksheet: 0 □ Packada across All Strata: 1 (B) 2. 0 □ Prevalence Index worksheet: 0 □ 0 □ Packada across All Strata: 1 (B) 3. 0 □ Prevalence Index worksheet: □ 0 □ Packada across All Strata: 0 □<	
4. 0 0 0 Percent of dominant Species 5. 0 0 That Are OBL, FACW, or FAC: 100.0% (A/ 6. 0 0 Prevalence Index worksheet: Total % Cover of: Multiply by: 0 1. 0 0 FACW species 80 x 2 = 160 2. 0 0 FACW species 0 x 3 = 0 3. 0 0 FACU species 0 x 4 = 0 4. 0 0 Column Totals: 80 x 4 = 0 7. 0 0 FACW FACW Prevalence Index = B/A = 2.000 Herb Stratum (Plot size:) 0 = Total Cover Hydrophytic Vegetation Indicators: 1. Lysimachia nummularia 80 V FACW Prevalence Index is $\leq 3.0^{-1}$ 3. 0 0 0 0 Prevalence Index is $\leq 3.0^{-1}$ Provide supportin data in Remarks or on a separate sheet) 5. 0 0 0 Problematic Hydrophytic Vegetation 1 (Explain) 6. <td< td=""><td></td></td<>	
5. 0 0 100.0% (A) 6. 0 0 100.0% (A) 7. 0 0 100.0% (A) 9. 0 0 100.0% (A) 1. 0 0 100.0% (A) 160.0% 1. 0 0 100.0% (A) 160.0% 0% 1. Lysimachia nummularia 80 V FACW Rapid Test for Hydrophytic Vegetation 1. Lysimachia nummularia 80 FACW <t< td=""><td></td></t<>	
6. 0 0 0 0 7. 0 0 = Total Cover Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size:) 0 = Total Cover OBL species 0.x 1 = 0. 1. 0 0 0 FACW species 80.x 2 = 160. 2. 0 0 0 FAC species 0.x 3 = 0. 3. 0 0 FAC species 0.x 4 = 0. 4. 0 0 0 Column Totals: 80.(A) 160.(0. 7. 0 0 0 Column Totals: 80.(A) 160.(0. 7. 0 0 0 Prevalence Index = B/A = 2.000. Herb Stratum (Plot size:) 0 = Total Cover Hydrophytic Vegetation Indicators: 1. Lysimachia nummularia 80 ✓ FACW 2. 0 0 0 Prevalence Index is ≤3.0 ¹ 3. 0 0 0 Prevalence Index is ≤3.0 ¹ 4. 0 0 0 Prevalence Index is ≤3.0 ¹ 5. 0 0 0 Prevalence Index is ≤3.0 ¹ 6. 0	5)
7.0 \square Prevalence Index worksheet:Sapling/Shrub Stratum(Plot size:) 0 $=$ Total Cover1.0 \square \square \square \square 2.0 \square \square \square \square 3.0 \square \square \square \square 4.0 \square \square \square 5.0 \square \square \square 6.0 \square \square \square 7.0 \square \square \square Herb Stratum(Plot size:) \square \square 1.Lysimachia nummularia \square \square \square 2.0 \square \square \square 3.0 \square \square 4.0 \square \square 5.0 \square \square 6.0 \square \square 7. \square \square \square 1.Lysimachia nummularia \blacksquare \blacksquare 2. \square \square \square 3. \square \square \square 4. \square \square \square 5. \square \square \square 6. \square \square \square 6. \square \square \square 6. \square \square \square 6. \square	
Sapling/Shrub Stratum(Plot size:) 0 = lotal CoverIotal % Cover of:Multiply by:1. 0 0 $FACW$ species 0 x $1 = 0$ 2. 0 0 $FACW$ species 0 x $2 = 160$ 3. 0 0 $FACW$ species 0 x $3 = 0$ 4. 0 0 $FACW$ species 0 x $4 = 0$ 0 0 0 0 $Column$ $Total % Cover of:Multiply by:0000FACW species0x10000ColumnTotal % Cover of:Multiply by:0000Total % Cover of:Multiply by:01000Total % Cover of:Multiply by:01000Total % Cover of:Multiply by:01000Total % Cover of:Multiply by:010000001000000111111111111111111111111111111211111$	
1.0I0II02.00IFACW species 00 x $1 = 0$ 3.00IFACW species 00 x $3 = 0$ 4.00IFACU species 0 x $4 = 0$ 5.00IUPL species 0 x $5 = 0$ 6.00IColumn Totals: 80 x $4 = 0$ 7.0IUPL species 0 x $5 = 0$ 6.00IColumn Totals: 80 x $1 = 0$ 1.Lysimachia numnularia 80 V FACWPrevalence Index = $B/A = 2.000$ 1.Lysimachia numnularia 0 IIMorphological Adaptations 12.0IIMorphological Adaptations 1(Provide supportin data in Remarks or on a separate sheet)5.00IIII6.0IIIIII7.0IIIIII9.0IIIIII1.1.0IIIII2.0IIIIII3.0IIIIII4.0IIIIII5.0IIIIII6.0 <tdi< td="">I</tdi<>	
2.0 $ $ $ $ $ $ $ $ $ $ $ $	
3. 0 0 FAC species 0 $x + 3 = 0$ 4. 0 0 0 FACU species 0 $x + 4 = 0$ 5. 0 0 0 0 FACU species 0 $x + 4 = 0$ 6. 0 0 0 0 Column Totals: 80 (A) 160 (I) 7. 0 0 0 0 Prevalence Index = B/A = 2.000 1. Lysimachia nummularia 80 I FACW Prevalence Index is > 50% I 2. 0 0 0 I Index is < 3.0 ¹ Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet) I Problematic Hydrophytic Vegetation ¹ (Explain)	
4.0 $ $ FACU species 0 $x 4 = 0$ 5.0000 $x 5 = 0$ 6.0000 $x 5 = 0$ 7.0000 $x 5 = 0$ 7.0000 $x 5 = 0$ 1.Lysimachia nummularia80 \checkmark FACW2.000 \blacksquare 3.000 \blacksquare 4.0005.0006.00000001.Dominance Test is > 50% \checkmark Prevalence Index is $\leq 3.0^{-1}$ Morphological Adaptations $^{-1}$ (Provide supportin data in Remarks or on a separate sheet)5.006.00	
5. 0 0 0 x S = 0 6. 0 0 0 160 0 7. 0 0 0 160 0 Herb Stratum (Plot size: 0 0 160 0 1. Lysimachia nummularia 80 Image: FACW	
6. 0 Column Totals: 80 (A) 160 (I) 7. 0 0 0 0 Prevalence Index = $B/A = 2.000$ Prevalence Index = $B/A = 2.000$ Herb Stratum (Plot size: 0 0 = Total Cover Hydrophytic Vegetation Indicators: 1. Lysimachia nummularia 80 Image: FACW Prevalence Index = $B/A = 2.000$ 2. 0 0 Image: FACW Image: FACW Image: FACW 3. 0 0 Image: FACW Image: FACW Image: FACW Image: FACW 4. 0 0 Image: FACW Image: FACW Image: FACW Image: FACW 5. 0 0 Image: FACW Image: FACW Image: FACW Image: FACW 6. 0 0 Image: FACW Image: FACW Image: FACW Image: FACW 6. 0 0 Image: FACW Image: FACW Image: FACW Image: FACW 6. 0 0 Image: FACW Image: FACW Image: FACW Image: FACW	_
7. 0 Prevalence Index = $B/A = 2.000$ Herb Stratum (Plot size:) 0 = Total Cover Hydrophytic Vegetation Indicators: 1. Lysimachia nummularia 80 Image: FACW Image: Rapid Test for Hydrophytic Vegetation 2. 0 Image: Gamma and the structure in the stru)
Herb Stratum (Plot size:) 0 = Total Cover Hydrophytic Vegetation Indicators: 1. Lysimachia nummularia 80 ✓ FACW Rapid Test for Hydrophytic Vegetation 2	
nero stratum (not stell (not stell<	
1. Lysimachia nummularia $\frac{80}{0}$ Image: FACW FACW Dominance Test is > 50% 2. 0 Image: Comparison of the system of the syste	
2. 0 □ 0 □	
3. 0	
4. 0 Image: constraint of the sector of	,
5. 0 0 Problematic Hydrophytic Vegetation ¹ (Explain) 6. 0 0 0 0	
6	
7 1 Indicators of hydric soil and wetland hydrology mu	et.
be present, unless disturbed or problematic.	
8 Definitions of Vegetation Strata:	
10 Tree - Woody plants, 3 in. (7.6 cm) or more in diame	er
Sapling/shrub - Woody plants less than 3 in. DBH an	ł
Woody Vine Stratum (Plot size:)	
1 0	of
2 0 size, and woody plants less than 3.28 ft tall.	
3 Woody vine - All woody vines greater than 3.28 ft in	
4 0_ height.	
= Total Cover	
Present? Yes • No U	
Remarks: (Include photo numbers here or on a separate sheet.)	

Soil							Sampling Point	: w-mdt4/21/2016-5	
Profile Desc	ription: (Describe to	the depth	needed to documen	t the indicat	tor or co	nfirm the	absence of indicators.)		
Depth	Matrix		Re	dox Feature	es		-		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-12	10YR 5/1	90	10YR 5/8		C	PL	Silty Clay		
		-	·						
							r	-	
			······						
1 Type: C-Cor		n RM-Pade	Iced Matrix CS-Cover	ed or Costed	Sand Cr	ains 21 oct	ation: PI=Pore Lining M-M	Natrix	
						1115 °LUCC	ation. FL-FORE LINING. MEN		
Hyaric Soil				···· C····f /C/			Indicators for Prob	lematic Hydric Soils : ³	
	(A1)		Polyvalue Belo MLRA 149B)	w Surrace (St	5) (LKK F	4	2 cm Muck (A10)	(LRR K, L, MLRA 149B)	
	ipedon (A2)		Thin Dark Surf	ace (S9) (LR	R R, MLF	A 149B)	Coast Prairie Red	ox (A16) (LRR K, L, R)	
	tic (A3)		Loamy Mucky	Mineral (F1)	LRR K. L.)	,	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)	
			Loamy Gleved	Matrix (F2)			Dark Surface (S7) (LRR K, L, M)	
	Layers (A5) Relew Dark Surface (A	11)	Depleted Matri	ix (F3)			Polyvalue Below S	Surface (S8) (LRR K, L)	
	Delow Dark Surface (A	11)	Redox Dark Su	urface (F6)			Thin Dark Surface	e (S9) (LRR K, L)	
			Depleted Dark	Surface (F7)			Iron-Manganese	Masses (F12) (LRR K, L, R)	
Sandy Mi	uck Mineral (S1)		Redox Depress	sions (F8)			Piedmont Floodpl	ain Soils (F19) (MLRA 1498	3)
	eyed Matrix (S4)		— .				Mesic Spodic (TA	6) (MLRA 144A, 145, 149B)
	200X(55)						Red Parent Mater	ial (F21)	
	Maurix (50)	1400)					Very Shallow Dar	k Surface (TF12)	
	Idce (57) (LKK K, MLKA	(149D)					Other (Explain in	Remarks)	
³ Indicators o	of hydrophytic vegetatic	n and wetla	nd hydrology must be	present, unle	ss disturt	ed or probl	ematic.		
Restrictive L	ayer (if observed):								
Туре:									
Depth (inc	thes):						Hydric Soil Present?	Yes 🔍 No 🔾	
Remarks:	,								
Kernarks.									

WETLAND DETER	RMINATION DATA FORM	 Northcentral a 	nd Northeast Region	ו
Project/Site: Black River-Lorain 138kV Tline	City/County:	Lorain	Sampling Da	ite: 21-Apr-16
Applicant/Owner: FirstEnergy	-	State: OH	Sampling Point: upl	l-mdt4/21/2016-5
Investigator(s): M.Thomayer, B.Otto	Section, Toy	wnship, Range: S.	т. 7N	R. 17W
Landform (hillslope, terrace, etc.): Flat	Local relief (cor	ncave, convex, none		one: 0.0%/0.0°
Subregion (LRR or MLRA): MLRA 139 in LRR R	Lat.: 41.438204	Long.: -	82.116956	Datum: NAD 83
Soil Map Unit Name: AmA			NWI classification: N/A	
Are elimetic (hudue le sie en ditione on the site tomical f	iau thia time of use 2 Vec			
			io, explain in kemarks.)	
		Are "Normal Circ	umstances" present?	
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, expla	in any answers in Remark	(S.)
Summary of Findings - Attach site maj	p showing sampling po	int locations, i	ransects, importar	nt features, etc
Hydrophytic Vegetation Present? Yes \bigcirc No \bigcirc				
Hydric Soil Present? Yes 🔾 No 🤆	Is the s within	Sampled Area a Wetland? Y	es 🔿 No 🖲	
Wetland Hydrology Present? Yes O No 🔆				
Remarks: (Explain alternative procedures here or in	a separate report.)			
in ROW adjacent to wetland	,			
Hydrology				
Wetland Hydrology Indicators:		Sec	ondary Indicators (minimum o	of 2 required)
Primary Indicators (minimum of one required; check	all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table (C2)	
U Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres along Living R	Roots (C3)	Saturation Visible on Aerial In	magery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D	01)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	(C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B/)	Other (Explain in Remarks)		Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)			FAC-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes O No O	Depth (inches):			
Water Table Present? Yes O No O	Depth (inches):			
Saturation Present? Yes No •	Denth (inches):	Wetland Hydrolog	y Present? Yes \bigcirc	No 🖲
(includes capillary fringe)		octions) if available		
Describe Recorded Data (stream gauge, monitoring v	well, derial prioros, previous irisp	ecuons), ii avaliable		
Remarks:				

VEGETATION - Use scientific names of plants

(Plot size:	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (FIOUSIZE)	<u>% Cover</u>		Status	Number of Dominant Species
I	0			That are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3:	0			Species Across All Strata:(B)
-+ 5	0			Percent of dominant Species
6	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
7.	0			Prevalence Index worksheet:
	0 =	Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species $0 \times 1 = 0$
1				FACW species $0 \times 2 = 0$
2	0			FAC species $0 \times 3 = 0$
3				FACU species $0 \times 4 = 0$
4				UPL species $0 \times 5 = 0$
5 6				Column Totals: 0 (A) 0 (B)
8 7	0			$\frac{1}{2} = \frac{1}{2} = \frac{1}$
/	0 =	- Total Cover		
Herb Stratum (Plot size:)				Hydrophytic Vegetation Indicators:
1	0			
2	0			$\square \text{ Drevelence Index is } > 30\%$
3	0			$\square \text{ Prevalence index is \exists 3.0}$
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric coil and wohland hydrology much
/	0			be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9	0			
11	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH) regardless of height
12	0			
12	0 =	= Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
_Woody Vine Stratum (Plot size:)				
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.26 it tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	=	Total Cover		
				Hydrophytic
				Vegetation Present? Yes O No 🖲
Remarks: (Include nhoto numbers here or on a separate she	et.)			
poa sp 100, white clover 20				
······				

inchas)	Matrix		Redox Features	_ .
ncnes)	Color (moist)		<u>Color (moist)</u> <u>%</u> <u>Type</u> ¹ Loc ²	Texture Remarks
0-6	10YR 4/2	100		Silt Loam rock flakes in pit
	· ·			
e: C=Con	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covered or Coated Sand Grains ² Loca	ation: PL=Pore Lining. M=Matrix
ric Soil J	Indicators:			Indicators for Problematic Hydric Soils : ³
Histosol (A1)		Polyvalue Below Surface (S8) (LRR R,	
Histic Epi	pedon (A2)		MLRA 149B)	Coost Brainia Baday (A16) (LRR K, L, MLRA 149B)
Black Hist	tic (A3)		Thin Dark Surface (S9) (LRR R, MLRA 149B)	\Box Coast Prairie Redox (A16) (LRR K, L, R)
Hydrogen	n Sulfide (A4)		Loamy Mucky Mineral (F1) LRR K, L)	
Stratified	Layers (A5)		Loamy Gleyed Matrix (F2)	Dark Surface (S7) (LRR K, L, M)
Depleted	Below Dark Surface (A	.11)	Depleted Matrix (F3)	This Dark Curface (CO) (LDD (CL)
Thick Dar	k Surface (A12)	-	Redox Dark Surface (F6)	
Sandy Mu	uck Mineral (S1)		Depleted Dark Surface (F7)	Iron-Manganese Masses (FI2) (LRR K, L, R)
, Sandy Gle	eyed Matrix (S4)		Redox Depressions (F8)	Macia Spedia (TA6) (MLRA 144A, 14E, 140R)
Sandy Re	dox (S5)			Mesic Spould (TAO) (MERA 144A, 145, 149B)
Stripped I	Matrix (S6)			
Dark Surf	ace (S7) (LRR R, MLRA	(149B)		Other (Evolution in Remarks)
dicators of	f hudrophutic vocatatio	n and watla	ad hudrology must be present, uplace disturbed or probl	
			a hydrology must be present, unless disturbed or proble	
trictive L	ayer (if observed):			
Гуре:				Hudric Soil Drocont? Vec 🔿 No 🌒
Depth (incl	hes):			Hydric Soli Present? Yes U NO S
arks [.]				

WETLAND DETERMINATION	DATA FORM	- Northcentral an	d Northeast Reg	gion
Project/Site: Black River-Lorain 138kV Tline	City/County:	Lorain	Samplin	g Date: 21-Apr-16
Applicant/Owner: FirstEnergy	-	State: OH	Sampling Point:	w-mdt4/21/2016-6
Investigator(s): M.Thomayer, B.Otto	Section, Tov	wnship, Range: S.	T. 7N	R. 17W
Landform (hillslope, terrace, etc.): Flat	 Local relief (cor	ncave, convex, none):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R Lat.:	41.438355	Long.: -8	2.11181	Datum: NAD 83
Soil Map Unit Name: AmA			NWI classification:	Ν/Δ
	Ves	• No (75		
Are climatic/ hydrologic conditions on the site typical for this time of y Are Vegetation , Soil , or Hydrology significant	/ear?	Are "Normal Circu	o, explain in Remarks mstances" present?	;.) Yes ● No ○
Are Vegetation , Soil , or Hydrology naturally	problematic?	(If needed, explai	n any answers in Ren	narks.)
Summary of Findings - Attach site map showing s	sampling po	int locations, tr	ansects, impor	tant features, etc
			uneeco,	W ite (W ite (U), 222
	Is the §	Sampled Area		
	within	a Wetland? Yes	; $ullet$ No $igcup$	
Wetland Hydrology Present? Tes C INU C				
Remarks: (Explain alternative procedures here or in a separate repo	ort.)			
PEM wetland in mowed ROW				
Hydrology				
Wetland Hydrology Indicators:		Seco	adary Indicators (minim	um of 2 required)
Primary Indicators (minimum of one required; check all that apply)			Surface Soil Cracks (B6)	
Surface Water (A1)	2005 (RQ)		Prainage Patterns (B10)	
High Water Table (A2)	12)		Aces Trim Lines (B16)	
Saturation (A3)	[]		1055 Thin Lines (Dio)	((-))
Water Marks (B1)	Odor(C1)		routich Rurrows (C8)	(C2)
Sediment Denosits (R2)	Udur (CI)		Caturation Vicible on Aer	ial Imagery (CO)
□ Drift denosits (B3)			Hunted or Stressed Dan	
Algal Mat or Cruct (R4)			Comparable Desition (D)	N (D1)
				2)
Inin Muck Surface Inin Muck Surface Inin Muck Surface Inin Muck Surface	e (C7)			
	Remarks)			(D4)
Sparsely vegetated concave surface (bo)		₩ . Γ	AC-neutral rest (DS)	
Field Observations:				
Surface Water Present? Yes No O Depth (inches):	4			
Water Table Present? Yes No Depth (inches):				_
Saturation Present? Vec (No Depth (inches):		Wetland Hydrology	Present? Yes	● No ○
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous insp	ections), if available:		
Remarks:				
saturated throughout with pockets of inundation				
Saturated throughout with pockets of indification				

VEGETATION - Use scientific names of plants

Sampling Point:	w-mdt4/21/2016-6

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	
1	0			Number of Dominant Species That are OBL_EACW_ or EAC: 2 (A)
1				
2				Total Number of Dominant
3	0			Species Across All Strata: 2 (B)
4	0			
5.	0			Percent of dominant Species
6	0			That Are OBL, FACW, or FAC:(4/B)
7	0			Provalance Index werksheet
/. <u></u>				
Sapling/Shrub Stratum (Plot size:)	=	Total Cover	•	I otal % Cover of: Multiply by:
	0			OBL species <u>20</u> x 1 = <u>20</u>
l				FACW species 80 x 2 = 160
2				FAC species $0 \times 3 = 0$
3	0			
4	0			$\begin{bmatrix} FACU \text{ spectes} & \underline{0} & x \text{ 4} = \underline{0} \\ 0 & 0 & 0 \end{bmatrix}$
5.	0			UPL species $0 \times 5 = 0$
6	0			Column Totals: <u>100</u> (A) <u>180</u> (B)
7				Developer Index D/A t 000
/				Prevalence index = b/A = 1.800
Herb Stratum (Plot size:	0 =	Fotal Cover	•	Hydrophytic Vegetation Indicators:
		_		Rapid Test for Hydrophytic Vegetation
1. <i>Lysimachia nummularia</i>	80	\checkmark	FACW	\checkmark Dominance Test is > 50%
2. <i>Eleocharis acicularis</i>	20	\checkmark	OBL	$\square Dominance resense 500%$
3.	0			▶ Prevalence Index is $\leq 3.0^{-1}$
Λ	0			Morphological Adaptations ¹ (Provide supporting data in Remarks on an accurate sheet)
т				
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7	0			Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic
8	0			be present, unless distarbed of problematic.
9	0		-	Definitions of Vegetation Strata:
10	0			
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
	100 =	Total Cover		greater than 3.28 ft (1m) tall.
Woody Vine Stratum (Plot size:)		_		
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine All woody vines greater than 2.29 ft in
о	0			height
4				licigit.
	=	Total Cover		
				Hydrophytic
				Vegetation
				Present? ICS C NO C
Remarks: (Include photo numbers here or on a separate she	et.)			

Soil							Sampling Point:	w-mdt4/21/2016-6	
Profile Desc	ription: (Describe to	the depth	needed to documen	t the indicat	or or co	nfirm the	absence of indicators.)		
Depth	Matrix		Re	dox Feature	S 1		-		
(incnes)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²		Remarks	
0-12	10YR 6/1	90	10YR 6/8		<u> </u>	PL	Silty Clay Loam		
M	-					67 			
							p		
¹ Type: C=Cor	ncentration. D=Depletic	on. RM=Redu	iced Matrix, CS=Cover	ed or Coated	Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil	Indicators:						Indicators for Proble	ematic Hydric Soils : 3	
Histosol	(A1)		Polyvalue Belo	w Surface (S8	8) (LRR R	-	2 cm Muck (A10)	(LRR K, L, MLRA 149B)	
Histic Epi	ipedon (A2)		Thin Dark Surf	ace (S9) (LRI		Δ 149R)	Coast Prairie Redo	vx (A16) (LRR K, L, R)	
Black His	tic (A3)			Mineral (F1) I	RR K I)	A 1150)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)			Matrix (F2)			Dark Surface (S7)	(LRR K, L, M)	
	Layers (A5)		Depleted Matri	ix (E3)			Polyvalue Below Surface (S8) (LRR K, L)		
	Below Dark Surface (A	.11)	Redox Dark Si	Inface (F6)			Thin Dark Surface	(S9) (LRR K, L)	
	rk Surface (A12)		Depleted Dark	Surface (F7)			Iron-Manganese M	1asses (F12) (LRR K, L, R)	
	uck Mineral (S1)		Redox Depress	sions (F8)			Piedmont Floodpla	iin Soils (F19) (MLRA 149B)	
Sandy G	eyed Matrix (S4)		—				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	Matrix (SG)						Red Parent Material (F21)		
	face (S7) (LPP P MLP)	140R)					Very Shallow Dark	Surface (TF12)	
		(17)0)					Other (Explain in F	Remarks)	
³ Indicators c	of hydrophytic vegetatic	on and wetla	nd hydrology must be	present, unles	s disturb	ed or probl	ematic.		
Restrictive L	ayer (if observed):								
Туре:									
Depth (ind	ches):						Hydric Soil Present?	Yes $ullet$ No $igcup$	
Remarks:									

WETLAND DETERM	INATION DATA FORM - Northcer	ntral and Northeast Region
Project/Site: Black River-Lorain 138kV Tline	City/County: Lorain	Sampling Date: 21-Apr-16
Applicant/Owner: FirstEnergy	State:	OH Sampling Point: upl-mdt4/21/2016-6
Investigator(s): M.Thomayer, B.Otto	Section, Township, Rang	e: S. T. 7N R. 17W
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex	x, none): convex Slope: 0 0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R	Lat.: 41.438467 Lot	ong.: -82.111834 Datum: NAD 83
Soil Map Unit Name: AmA		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for	this time of year? Yes \bullet No \bigcirc	(If no, explain in Remarks.)
Are Vegetation Soil or Hydrology	significantly disturbed?	(1 he) explain in (condition)
	naturally problematic? (If neede	d, explain any answers in Remarks.)
Summary of Findings - Attach site map s	snowing sampling point locati	ons, transects, important features, etc
Hydrophytic Vegetation Present? Yes \bigcirc No \bigcirc		
Hydric Soil Present? Yes 🔾 No 🔍	Is the Sampled Area within a Wetland?	Yes 🔿 No 🖲
Wetland Hydrology Present? Yes 🔾 No 🖲		
Remarks: (Explain alternative procedures here or in a s	eparate report.)	
in ROW adjacent to wetland		
Hydrology		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all	that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	ter-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	uatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	l Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)	Irogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	dized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	sence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	cent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	n Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B/)	er (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		☐ FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No O D	epth (inches):	
Water Table Present? Yes O No O	epth (inches):	
Saturation Present?	enth (inches): Wetland H	ydrology Present? Yes 🔾 No 🖲
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring weil	i, aeriai photos, previous inspections), if a	valiable:
Remarks:		

VEGETATION - Use scientific names of plants

Sampling Point: upl-mdt4/21/2016-6

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant Species
1	0	That are OBL, FACW, or FAC: (A)
2	0	Total Number of Dominant
3	0	Species Across All Strata:(B)
4	0	
5	0	Percent of dominant Species That Are OBL_EACW_or EAC: 0.0% (A/B)
6		
7		Prevalence Index worksheet:
Sanling /Shruh Stratum (Plot size)	0 = Total Cover	Total % Cover of: Multiply by:
	•	OBL species $0 \times 1 = 0$
1		FACW species $0 \times 2 = 0$
2		FAC species $0 \times 3 = 0$
3		FACU species $0 \times 4 = 0$
4		UPL species $0 \times 5 = 0$
5		Column Totals: 0 (A) 0 (B)
6		
/		Prevalence Index = $B/A = 0.000$
Herb Stratum (Plot size:)		Hydrophytic Vegetation Indicators:
1	0	Rapid Test for Hydrophytic Vegetation
1 2		Dominance Test is > 50%
2		Prevalence Index is \leq 3.0 ¹
3		Morphological Adaptations ¹ (Provide supporting
4		data in Remarks or on a separate sheet)
- 5		Problematic Hydrophytic Vegetation + (Explain)
0 7		¹ Indicators of hydric soil and wetland hydrology must
0		be present, unless disturbed or problematic.
0		Definitions of Vegetation Strata:
9		
11		Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
12		
12	0 = Total Cover	Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:)		greater than 3.28 ft (Tff) tail
1	_0	Herb - All herbaceous (non-woody) plants, regardless of
2	_0	size, and woody plants less than 3.28 ft tall.
3	0	Woody vine - All woody vines greater than 3 28 ft in
4	0	height.
	0 = Total Cover	
		Hydrophytic Vogetation
		Present? Yes No 💿
Remarks: (Include photo numbers here or on a separate she	et.)	
poa sp 100. white clover 20	,	

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matr	ix	Re	dox Featu	ures Type 1		 Texture Remarks				
0-6		2 80	10VP 6/8	25		 M	Silby Clay	gravel and other debris			
	. <u> </u>										
			<u>.</u>	-	-	-					
								P			
			<u>.</u>	-	-	-					
			used Metrix CC_Cever	ad at Cast	ad Cand Cu		tion: DI - Doro Lining	M_Mateix			
Type: C=Cor		ецоп. км=кеа	uceu matrix, CS=COVer	eu or coat	eu sana Gi	all is ² LUCa	auon. rL=rore Lining.				
Hydric Soil				Cruster e	(00) (100	P	Indicators for P	Problematic Hydric Soils : 3			
	(A1)		MLRA 149B)	w Surface	(S8) (LRR	к,	2 cm Muck (/	A10) (LRR K, L, MLRA 149B)			
	tic (A2)		Thin Dark Surf	ace (S9) (LRR R, ML	RA 149B)	Coast Prairie	Redox (A16) (LRR K, L, R)			
	$\Delta C (AS)$		Loamy Mucky	Mineral (F1	1) LRR K, L)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)			
	Lavers (A5)		Loamy Gleyed	Matrix (F2	!)		Dark Surface	e (S7) (LRR K, L, M)			
	Below Dark Surface	≏ (A11)	Depleted Matr	ix (F3)			Polyvalue Be	low Surface (S8) (LRR K, L)			
	rk Surface (A12)		Redox Dark Su	urface (F6)			Thin Dark Su	Irface (S9) (LRR K, L)			
Sandy M	uck Mineral (S1)		Depleted Dark	Surface (F	7)		Iron-Mangan	nese Masses (F12) (LRR K, L, R)			
Sandy G	eved Matrix (S4)		Redox Depres	sions (F8)			Piedmont Flo	oodplain Soils (F19) (MLRA 149B)			
Sandy Re	edox (S5)							(TA6) (MLRA 144A, 145, 149B)			
Stripped	Matrix (S6)						Red Parent N	Aaterial (F21)			
Dark Sur	face (S7) (LRR R, M	ILRA 149B)						in in Remarks)			
3To diastana a	£ h					المعيم مرامع					
	n nyaropnyuc veget		na nyarology must be	present, ui	liess distur		emauc.				
Restrictive L	ayer (if observed.	l):									
Туре:							Hydric Soil Prese	nt? Vec 🔿 No 🔍			
Depth (inc	ches):						injune boin mese				
Remarks:											

WETLAND DETERMINATIO	N DATA FORM - Northcent	ral and Northeast Region
Project/Site: Black River-Lorain 138kV Tline	City/County: Lorain	Sampling Date: 21-Apr-16
Applicant/Owner: FirstEnergy	State: C	H Sampling Point: w-mdt4/21/2016-7
Investigator(s): M.Thomayer, B.Otto	Section, Township, Range	S. T. 7N R. 17W
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex,	none): concave Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R Lat	.: 41.438456 Lor	Image: -82.109719 Datum: NAD 83
Soil Map Unit Name: AmA		NWI classification: N/A
Are climatic/bydrologic conditions on the site typical for this time o		/If no, ovalain in Domarks)
Are Venetation Soil Soil or Hydrology Significa	antly disturbed? Are "Norma	
Are Vegetation Soil or Hydrology anatural	v problematic? (If needed	avalain anv aneware in Romarke)
Summary of Findings - Attach site man showing	a sampling point locatio	ns, transects, important features, etc
Hydrophytic Vegetation Present? Yes NO	Is the Sampled Area	
Hydric Soil Present? Tes NO	within a Wetland?	Yes 🔍 No 🔾
Wetland Hydrology Present? Yes VO V		
Remarks: (Explain alternative procedures here or in a separate re	port.)	
PEM wetland in mowed ROW		
Hydrology		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply	()	Surface Soil Cracks (B6)
Surface Water (A1)	Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	(B13)	Moss Trim Lines (B16)
Saturation (A3)	B15)	Dry Season Water Table (C2)
Water Marks (B1)	de Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizos	spheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	duced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	duction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	ace (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		✓ FAC-neutral Test (D5)
Surface Water Present? Yes No Depth (inches	5):	
Water Table Present? Yes O No O Denth (inches	;), 	
Saturation Present? Yes No Depth (inches	Wetland Hyd	lrology Present? Yes 🖲 No 🔿
(includes capillary fringe)	otos, provious inspostions) if ava	vilable:
Describe Recorded Data (stream gauge, monitoring weil, aenar pri	otos, previous inspections), il ava	
Remarks:		
saturated throughout		

VEGETATION - Use scientific names of plants

Sampling Point:	w-mdt4/21/2016-7

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	0			Species Across All Strata: (B)
4	0			Percent of dominant Species
5	0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0			.
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:)		= Total Cover		Iotal % Cover of: Multiply by:
1	0			Use species $0 \times 1 = 0$
2	0			FACW spectes 10 x 2 = 140
3	0			FAC species $0 \times 3 = 0$
4	0			FACU species $0 \times 4 = 0$
5	0			UPL species $0 \times 5 = 0$
6	0			Column Totals: (A) (B)
7	0			Prevalence Index = $B/A = 2.000$
(Plot size:)	0 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size)		_		Rapid Test for Hydrophytic Vegetation
1	0			✓ Dominance Test is > 50%
2	0			✓ Prevalence Index is \leq 3.0 ¹
3. Cornus alba			FACW	Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
/	0			be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
10				a breast height (DDH), regardless of height.
12	70 =	Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size:)				greater than 3.28 ft (1ff) tail.
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cover		
				Undranks dia
				Vegetation
				Present? Yes V No 🔾
Remarks: (Include photo numbers here or on a separate she	et.)			

Profile Descr	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)						
Depth	Mat	rix	Red	lox Features			
(inches)	Color (mois	it) %	Color (moist)	<u>%</u> Type ¹	Loc ²	Texture	Remarks
0-12	10YR5,	/1 100				Silty Clay	
				· · · · · · · · · · · · · · · · · · ·			
	· ·						
				·			
	contration D_D	letion DM_Ded	Lead Matrix CC-Cover	d or Costad Sand Co	ainc 21 acc	tion: DI-Doro Lining M	-Matrix
		Jeuon. KM=Keal	iceu mauix, Co=Covere	tu or coateu Sanu Gra	anns -LOCa	ition. FL=Pore Lining. M=	-i'iau IX
Hydric Soil 1	Indicators:					Indicators for Pro	blematic Hydric Soils : ³
☐ Histosol ((A1)		Polyvalue Belov	v Surface (S8) (LRR F	4	2 cm Muck (A10)) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)				A 140D)	Coast Prairie Re	dox (A16) (LRR K, L, R)
Black Hist	tic (A3)				A 149B)	5 cm Mucky Pea	at or Peat (S3) (LRR K. L. R)
Hydrogen	n Sulfide (A4)		Loamy Mucky N	Mineral (F1) LRR K, L)		Dark Surface (S	57) (IRR K M)
Stratified	Layers (A5)		Loamy Gleyed	Matrix (F2)			V Surface (S8) (LPP K 1)
Depleted	Below Dark Surfac	ce (A11)	Depleted Matrix	k (F3)			(50) (LRC K, L)
Thick Dar	rk Surface (A12)		Redox Dark Su	rface (F6)			Ce (59) (LRR N, L)
Sandy Mi	ick Mineral (S1)		Depleted Dark	Surface (F7)			e Masses (F12) (LRR K, L, R)
Sandy Fie	eved Matrix (S4)		Redox Depress	ions (F8)		Piedmont Flood	plain Soils (F19) (MLRA 149B)
						Mesic Spodic (T	A6) (MLRA 144A, 145, 149B)
	Matrix (CC)					Red Parent Mate	erial (F21)
						Very Shallow Da	ark Surface (TF12)
	race (S7) (LRR R, N	MLRA 149B)				Other (Explain i	n Remarks)
³ Indicators o	f hydrophytic vege	etation and wetla	nd hydrology must be p	resent, unless disturb	ed or proble	ematic.	
Restrictive L	aver (if observe	d):					
Type:							
Depth (inc	thes).					Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inc	.nes):					-	
Remarks:							

WETLAND DETERMINAT	ON DATA FORM - North	central and Northeast Region
Project/Site: Black River-Lorain 138kV Tline	City/County: Lorain	Sampling Date: 21-Apr-16
Applicant/Owner: FirstEnergy	Stat	e: OH Sampling Point: upl-mdt4/21/2016-4/7
Investigator(s): M.Thomayer, B.Otto	Section, Township, Ra	ange: S. T. 7N R. 17W
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, con	nvex, none): convex Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 139 in LRR R	at.: 41.43848	Long.: -82.109803 Datum: NAD 83
Soil Map Unit Name: AmA		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for this time	e of vear? Yes 🖲 No 🤇	(If no, explain in Remarks.)
Are Vegetation Soil or Hydrology signi	icantly disturbed? Are "N	$(1, 1, 0)$ or p_1, \dots, p_{n-1} and p_{n-1} and p_{n-
	ally problematic? (If no	
	any problematic: (If here	eded, explain any answers in Remarks.)
Summary of Findings - Attach site map show	ng sampling point loca	ations, transects, important reatures, etc
Hydrophytic Vegetation Present? Yes \bigcirc No \bigcirc	To the Community of	•
Hydric Soil Present? Yes O No 🔍	within a Wetland	d_{2}^{Area} Yes \bigcirc No \bigcirc
Wetland Hydrology Present? Yes 🔾 No 🔍		
in ROW adjacent to wetland Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that appendix) Surface Water (A1) High Water Table (A2) Aquatic Faur Saturation (A3) Water Marks (B1) Hydrogen St Sediment Deposits (B2) Drift deposits (B3) Presence of Algal Mat or Crust (B4)	ply) ed Leaves (B9) ha (B13) s (B15) lifide Odor (C1) zospheres along Living Roots (C3) Reduced Iron (C4)	Secondary Indicators (minimum of 2 required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
☐ Iron Deposits (B5)	urface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	in in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No Depth (inc. Water Table Present? Yes No Depth (inc. Saturation Present? Yes No Depth (inc. Saturation Present? Yes No Depth (inc. Concludes capillary fringe) Yes No Depth (inc. Describe Recorded Data (stream gauge, monitoring well, aerial Remarks:	nes): Mes): Wetlan Mes): photos, previous inspections),	Id Hydrology Present? Yes O No if available:

VEGETATION - Use scientific names of plants

Sampling Point: upl-mdt4/21/2016-4/7

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	
1	0			That are OBL. FACW, or FAC: 0 (A)
0	0			
2				Total Number of Dominant
3				Species Across All Strata: (B)
4	0			
5	0			That Are ORL EACW or EACY 0.0% (A/B)
6	0			That Are Obl, FACW, of FAC:
7	0			Prevalence Index worksheet:
-	0 =	= Total Cover		Total % Cover of Multiply by
Sapling/Shrub Stratum (Plot size:)				$\begin{array}{c c} \hline \hline$
1.	0			
2	0			FACW species $0 \times 2 = 0$
2	0			FAC species $0 \times 3 = 0$
3				FACU species $0 \times 4 = 0$
4				P species = 0
5				
6	0			$\begin{bmatrix} \text{Column lotals:} & \underline{0} & \text{(A)} & \underline{0} & \text{(B)} \end{bmatrix}$
7	0			Prevalence Index = B/A =0.000
	0 =	Total Cover		Hydrophytic Vogotation Indicators
Herb Stratum (Plot size:)			ľ	
1.	0			
2	0			Dominance Test is > 50%
2	0			Prevalence Index is \leq 3.0 ¹
3				Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8.	0			be present, unless disturbed or problematic.
9	0			Definitions of Vegetation Strata:
10	0			
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
				at breast height (DDH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
(Plot size:	=	= Total Cover		greater than 3.28 ft (1m) tall
woody vine Stratum (Fiot size/				
1				Herb - All herbaceous (non-woody) plants, regardless of
2	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= Total Cover		
				Hydrophytic
				Present? Yes 🔾 No 🔍
Remarks: (Include photo numbers here or on a separate sh	eet)			
nonarios (include proto numbers nere of on a separate site				
poa sp ou, white clover 30, dancellon 10				

Sampling Point: upl-mdt4/21/2016-4/7

Depth (inches)		to the depth	needed to documen	t the main		onfirm the a	absence of indicato	151)	
(inclice)	Matrix	<u>(</u>	Re	dox Featu	ires	1.007	Touturo	Domoriza	
				<u>%0</u>				gravel and other debris	
0-0	10TR 5/2	00							
							<u>.</u>		
					-				
				_					
¹ Type: C=Con	centration. D=Deple	tion. RM=Red	uced Matrix, CS=Cover	ed or Coate	ed Sand Gr	ains ² Loca	tion: PL=Pore Lining	M=Matrix	
Hydric Soil I	Indicators:						Indicators for	Problematic Hydric Soils : ³	
Histosol (A1)		Polyvalue Belo	w Surface	(S8) (LRR F	ι,	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Histic Epip	pedon (A2)		MLKA 149B)	Face (CO) (A 140P)	Coast Prairie	Redox (A16) (LRR K, L, R)	
Black Hist	tic (A3)			Minoral (E1		A 149D)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)	
Hydrogen	Sulfide (A4)			Motrix (F1	.) LKK K, L) \		Dark Surfac	e (S7) (LRR K, L, M)	
Stratified	Layers (A5)			induix (FZ)		Polyvalue Be	elow Surface (S8) (LRR K, L)	
	Below Dark Surface	(A11)		irface (F6)			Thin Dark S	urface (S9) (LRR K, L)	
Thick Dar	k Surface (A12)			Surface (F	7)		Iron-Mangai	nese Masses (F12) (LRR K, L, R)	
Sandy Mu	ick Mineral (S1)			sions (F8)	,,		Piedmont Fl	oodplain Soils (F19) (MLRA 149B)	
Sandy Gle	eyed Matrix (S4)						Mesic Spodi	c (TA6) (MLRA 144A, 145, 149B)	
Sandy Red	dox (S5)						Red Parent	Material (F21)	
		DA 140D)					Very Shallov	v Dark Surface (TF12)	
	ace (S7) (LKK K, ML	KA 149D)					Other (Expla	in in Remarks)	
³ Indicators of	f hydrophytic vegeta	tion and wetla	nd hydrology must be	present, un	less disturt	ed or proble	ematic.		
	ayer (if observed)	:							
Restrictive La									
Restrictive La							Hydric Soil Press	nt? Vec () No (●)	
Restrictive La Type: Depth (incl	hes):						Hydric Son Frese		
Restrictive La Type: Depth (incl Remarks:	hes):						Tryunc Son Frese		
Restrictive Line Type: Depth (incl Remarks:	hes):								
Restrictive Line Type: Depth (incl Remarks:	hes):						Hydric Son Prese		
Restrictive Li Type: Depth (incl Remarks:	hes):								
Restrictive Ling	hes):								
Restrictive Li Type: Depth (incl Remarks:	hes):								
Restrictive Li Type: Depth (incl Remarks:	hes):						injune son rrese		
Restrictive Li	hes):								
Restrictive Ling	hes):								
Restrictive Ling	hes):								
Restrictive Li Type: Depth (incl Remarks:	hes):								
Restrictive Li Type: Depth (incl Remarks:	hes):								
Restrictive Li	hes):								
Restrictive Li	hes):						injune son rresk		
Restrictive Li	hes):								
Restrictive Li Type: Depth (incl Remarks:	hes):								
Restrictive Li Type: Depth (incl Remarks:	hes):								
Restrictive Li Type: Depth (incl Remarks:	hes):								
Restrictive Li	hes):								

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Commission of Ohio Docketing Information System on

7/11/2016 1:22:19 PM

in

Case No(s). 16-1180-EL-BLN

Summary: Letter of Notification Application for a Certificate of Environmental Compatibility and Public Need (Part 4 of 6) electronically filed by Mr. Robert J Schmidt on behalf of American Transmission Systems Inc.